

Scrolling • Carving • Intarsia • Woodcrafts

CREATIVE **Woodworks** & CRAFTS

August 2001

www.woodworksandcrafts.com

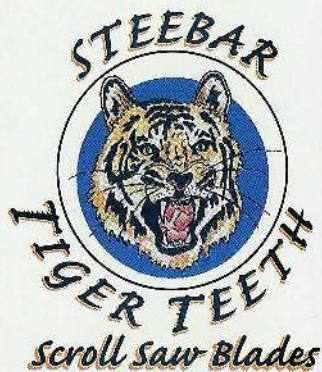
21
Great
Projects!

Full Size Patterns!

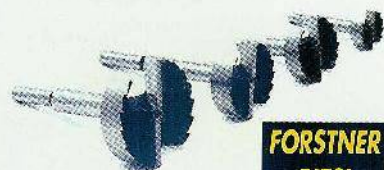
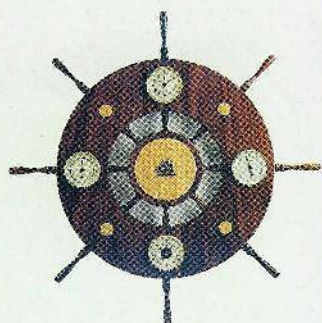
\$5.95 U.S.A.
\$7.49 Canada



**PLACE AN ORDER FOR \$50 OR MORE FROM STEEBAR
AND QUALIFY TO WIN A FREE DREMEL SCROLL SAW!**



EXCLUSIVE PLANS!



**FORSTNER
BITS!**

That's right! When your \$50 (or more) order comes in, we will put your name in our "hat." Then, on Aug. 13th, 2001, the person whose name is chosen will win a Dremel 16" variable-speed scroll saw worth \$350! The bigger the order, the more chance you'll have to win: a \$100 order gets your name in twice, a \$200 order gets your name in four times, etc.

Steebar Corp. has worked hard to achieve its current status as the Woodworker's One-Stop-Shopping Source for clock parts, plans, patterns, scroll saw blades, woods, and much more....over 2,000 items! We also guarantee prompt service.

The drawing will take place on
August 13th, 2001.

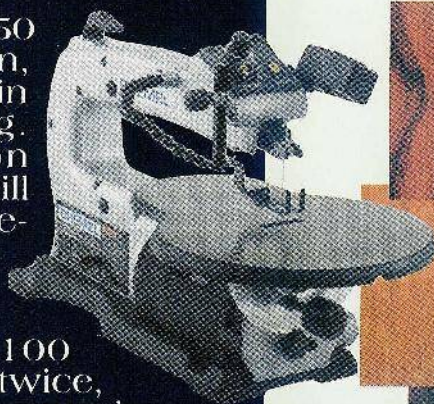
Don't delay....
your FREE scroll saw could be waiting!

STEEBAR CORP. P.O. Box 980,
WC-38, Andover, N.J. 07821-0980

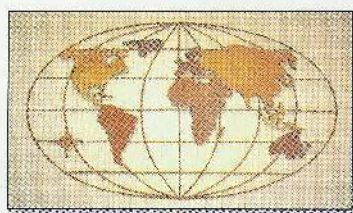
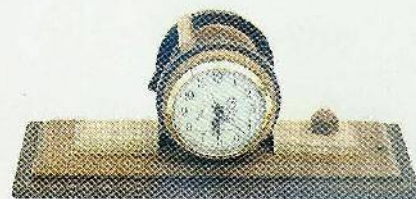
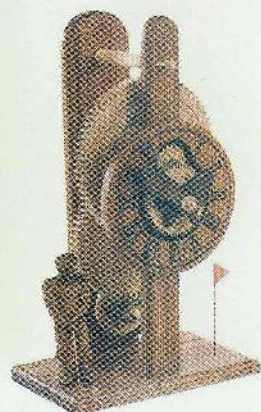
Phone: (973) 383-1026

Fax: (973) 383-8918

e-mail: sales@steebar.com
website: www.steebar.com



**GREAT
WOOD!**



Mini clock patterns designed especially for our 36 MM (1 7/16") insert clocks. Most will stand alone without additional support. All were crafted from 3/4" oak, but you could use the scrap wood that accumulates around all shops. All patterns are full size and are proven craft show sellers.



19 MINI-CLOCK PATTERNS

A miscellaneous assortment that includes a hammer, anchor, fireman's emblem, pinwheel and many more...for a total of 19 designs. Order #19 MINI...ONLY \$5.95



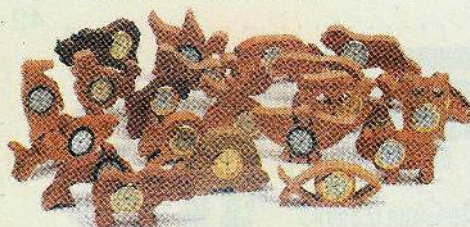
14 MINI-CLOCK PATTERNS

Mostly "rolling" stock...cars, trucks, tractors, motorcycles, etc. Fourteen designs in all. Order #14 MINI...ONLY \$4.95



22 MINI-CLOCK PATTERNS

Mostly animals. Includes fish, turtle, dog, eagle, penguin and more...22 designs in all. Order #22 MINI...ONLY \$6.95



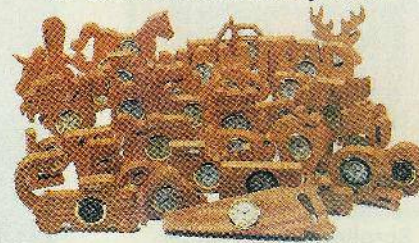
21 MINI-CLOCK PATTERNS

More animals. Includes a crocodile, moose, dog, seal, hawk and more...21 designs in all. Order #21 MINI...ONLY \$6.95



18 MINI-CLOCK PATTERNS

An assortment of items. Includes a telephone, golf clubs, bowling ball/pin, butterfly, Grandma & Grandpa in their rockers and more...18 designs in all. Order #18 MINI...ONLY \$5.95



34 MINI-CLOCK PATTERNS

A really great assortment of items. Includes a handsaw, 1932 Ford, football helmet, rooster, deer, apple and many more...for a total of 34 unique patterns. Order #34 MINI...ONLY \$9.95

CHECK THIS OFFER...A "BEST BUY"!!! All 128 mini-clock patterns as described above, a \$40.70 value Order #128-MINI...only \$29.95.



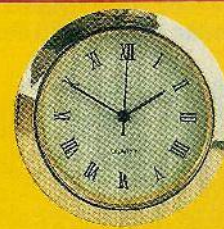
E-36 MM-AW
White dial



E-36 MM-RW
White dial



E-36 MM-AI
Ivory dial



E-36 MM-RI
Ivory dial

ALL PLASTIC ECONOMY 36 MM FIT-UPS

When cost is a major concern, these are the only inserts to consider. Size: 1 7/16" and requires a 1 3/8" mounting hole 5/16" deep. Gold tone bezels. One year limited warranty. Includes an installed battery.

PRICING FOR THE 6 ECONOMY INSERTS

1+ 5.95	5+ 5.50	10+ 4.75
25+ 4.00	50+ 3.75	100+ 3.50



E-36 MM-AG
Gold dial



E-36 MM-RG
Gold dial

OUR FULL COLOR 100 PAGE CLOCK MAKERS CATALOG FEATURING OVER 2500 ITEMS WILL BE INCLUDED FREE WITH AN ORDER FROM THIS AD (AVAILABLE SEPARATELY FOR \$3.00 DEPOSIT)

**VISIT OUR WEB SITE AT:
WWW.STEEBAR.COM**

SHIPPING CHARGES: Add 10% shipping to total, minimum \$5.00. Orders over \$200.00 shipped FREE!!!

We accept Visa, Mastercard, & Discover. Send your name, address, and telephone number to:

STEEBAR CORP.- P.O. Box 980 - WC-38, Andover, N.J. 07821-0980
ORDER TODAY by Fax (973) 383-8918 or Phone (973) 383-1026

Projects in
Full Size Pattern
Section No. 1 shown
on this page.

CONTENTS

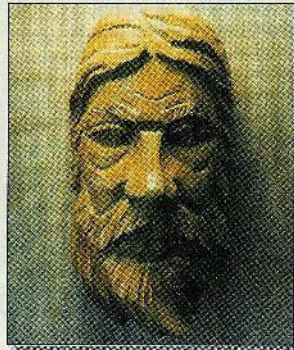
Projects:

Let Us Give Thanks Plaque	6
Scrolled Candleholder	8
Ram	10
Victorian Sleigh	14
The Pontiac Picnic 2000 Mini Clock No. 5	16
Pumpkin Puzzle	18
"Miss Jenny" Bud Vase/Candleholder	20
Piggy Bank	22
Arrowhead Bolo and Buckle	26
Turning a Corian® or Other Solid Surface Pen	30
The Pontiac Picnic 2000 Mini Clock No. 1	35
Five Robins Clock	42

"Miss Jenny" Bud
Vase/Candleholder



Scrolled Candleholder



The Sideways Look



Let Us Give
Thanks
Plaque



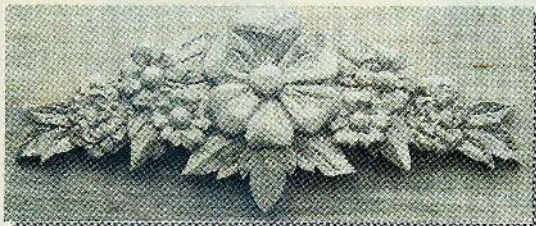
The Pontiac Picnic 2000 Mini Clock No. 5



Lighthouse



Victorian Sleigh



Floral Array

The Pontiac
Picnic 2000 Mini
Clock No. 1



Piggy Bank



Arrowhead Bolo and Buckle



Pair of Elk



THE FULL SIZE PATTERNS FOR THE PROJECTS SHOWN ON THIS PAGE ARE LOCATED
IN PULL OUT PATTERN SECTION NO. 1 FOUND IN THIS ISSUE.

Projects in
Full Size Pattern
Section No. 2 shown
on this page.

NASCAR Shelf	46
Lighthouse	50
Firefly	51
Pair of Elk	56
Mission Style Trestle Bench	58
Gone Fishing Plaque	61

Carving Section:

Floral Array	36
The Sideways Look	38
Sharpening Carving Tools	40

Features:

Editorial	12
True Scroll Saw Stories	24
Wes' Workshop	45



Gone Fishing Plaque



Firefly (patterns for this project included in text)



Ram



Turning a Corian® or Other Solid Surface Pen (no pattern for this project)



Pumpkin Puzzle



Five Robins Clock



NASCAR Shelf



Mission Style Trestle Bench (no pattern for this project)

CREATIVE WOODWORKS & CRAFTS August 2001, No. 79
All American Crafts, Inc. 2001
ALL RIGHTS RESERVED ON ENTIRE CONTENTS.

Creative Woodworks & Crafts® ISSN-1055-6729, is published seven times a year by All American Crafts, Inc., 243 Newton-Sparta Road, Newton, NJ 07860, U.S.A. All rights reserved on entire contents of magazine. We are not responsible for loss of unsolicited material. We reserve the right to edit and publish correspondence unless specific commentary and/or name and address are requested to be withheld. Reproduction of editorial or advertising contents in any way whatsoever without the written permission of the Publisher is strictly prohibited. The instructions in this magazine are published in good faith and have been checked for accuracy; however, no warranty, either expressed or implied, is made nor are successful results guaranteed. Periodicals postage paid at Newton, NJ 07860 and at additional mailing offices. Postmaster: Please send address changes to *Creative Woodworks & Crafts*®, P.O. Box 518, Mt. Morris, IL 61054. Subscription Rate \$41.65/7 issues. *Creative Woodworks & Crafts*® is pleased to announce its "Retail Display Allowance Plan," available to retailers interested in earning a display allowance on *Creative Woodworks & Crafts*®. To obtain details and a formal contract, please write our distributor for the United States and Canada: Kable News Company, Inc., 641 Lexington Avenue, New York, NY 10022, or outside the United States and Canada, Worldwide Media Service, Inc., One Meadowlands Plaza, Suite 900, East Rutherford, NJ 07073.

Printed in U.S.A. by Quad Graphics, Inc.
Cover design by Kelly Albertson

THE FULL SIZE PATTERNS FOR THE PROJECTS SHOWN ON THIS PAGE ARE LOCATED
IN PULL OUT PATTERN SECTION NO. 2 FOUND IN THIS ISSUE.



Let Us Give Thanks Plaque

by Dirk Boelman of The Art Factory

sawn by Ken Hider

Pattern
Located in
Full Size Pattern
Section No. 1!



SUPPLIES

Wood: *Baltic birch plywood*—one piece 1/8" x 8-1/2" x 15-3/4" (for the silhouette); *walnut*—two pieces 3/4" x 1-3/8" x 11" (for left and right sides of frame), two pieces 3/4" x 1-3/8" x 18-3/16" (for top and bottom sides of frame)

Tools: scroll saw with assorted blades; drill with bits; router with 1/4" rabbeting bit and decorative bit of choice; miter saw

Temporary-bond spray adhesive

Masking tape (optional)

Sandpaper, assorted grits

Needle files

Wood glue

Clamps

Finish of choice

Green velvet board* or backer of choice (8-1/2" x 15-3/4")

Small brads, clips or cleats

Sawtooth hanger

*Available from The Art Factory in a 16" x 20" piece for \$10.95 plus S&H at P.O. Box 701, Platteville, WI 53818; phone (800) 566-6394 or fax (608) 348-8388.

INSTRUCTIONS

Boy, if this project doesn't rekindle fond memories of family get-togethers and scrumptious meals. Every time I look at this design, I can almost smell the aroma of turkey and dressing and hear the laughter and conversation! This is the perfect piece to hang on your dining room wall. It's a great reminder to us all to be thankful for everything we have!

The silhouette can be made from almost any thickness of material. We chose 1/8" thick Baltic Birch plywood, which allowed us to stack and saw several duplicates simultaneously. Here's how we did ours.

Adhere the pattern to the wood with spray adhesive, using the outer lines of the pattern to line up with the edges of the wood. **Note:** multiple layers of wood can be stacked, if desired. If you choose to stack cut, tightly wrap several pieces of masking tape around all of the edges to securely hold the stack together.

Drill small blade entry holes inside all of the areas to be cut out, then make all cuts with your scroll saw, starting with the inside cuts and working toward the perimeter. Once all cutting is complete, remove pattern, sand, and touch up imperfections with needle files, sandpaper, etc. Apply finish of choice (we used *Watco* Natural Danish Oil).

To make the frame for the silhouette, rout a rabbet or lip 5/16" deep with the 1/4" rabbeting bit in all four frame pieces. This will receive the silhouette and backer material when the frame is assembled. Round over the edges with the router and decorative bit of choice. Miter corners 45 degrees, then glue and clamp together until dry. Apply finish to frame as desired.

We installed green velvet board behind our silhouette. You may also want to experiment with mirrored Plexiglas, contrasting wood, colored fabric or cardboard.

Install silhouette and backer inside frame. Use small brads, clips or cleats to hold these items in place. Attach a sawtooth hanger to the back of the frame and hang your completed project where all can enjoy!



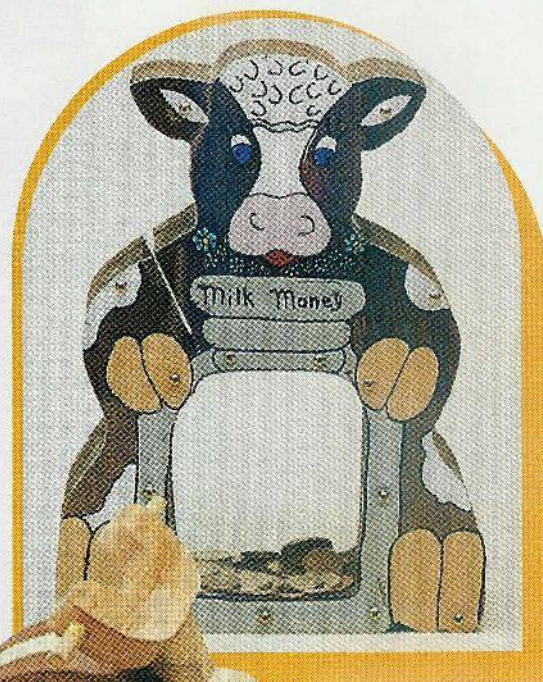
Ask a HAWK Scroll Saw owner

Meet the Lammer sisters. Around five years ago, Lammer sisters Darlene, Eunice, and Sharon along with Darlene's daughter Linda, started their own family tradition.

Darlene purchased her Hawk Scroll Saw and they decided to create a special holiday stocking stuffer gift for each member of the family — a Lammer family Christmas ornament. Each year the ladies create a dated ornament for each member. Darlene says it's worth it because it brings the entire family together once a year, all 70 of them.

There's no way they could afford to buy gifts for all those people. But with a few scraps of wood, a little time, and their Hawk Precision Scroll Saw, they create treasured gifts that are destined to continue in the Lammer family for years to come.

- Variable speed
- Patented quick blade change
- Adjustable stroke for different types of cutting
- Cuts so smooth, no sanding required
- Vibration free performance
- 3 models to choose from
- 100% made in USA quality



FREE Fact Kit

www.rbiwoodtools.com

Name _____

Phone _____

Address _____

City _____

State _____ Zip _____

Email _____

rbiindustries, inc.
America's Woodworking
Machinery Manufacturer

1801 Vine Street
P.O. Box 369
Harrisonville, MO 64701-0369

(Optional—occasionally receive special offers via email)

Call For Your **FREE** Fact Kit
1-800-487-2623



SCROLLED CANDLEHOLDER

by Marilyn Carmin of Heartland Creations

Patterns
Located in
Full Size Pattern
Section No. 1!



SUPPLIES

Wood: wood of choice—two pieces $1/4" \times 5-1/2" \times 5-1/2"$ (for the top and base); six pieces $1/4" \times 2" \times 4-1/2"$ (for the side pieces)

Tools: scroll saw with No. 2 wood blades (20 TPI), drill with No. 52 bit

Wood glue

Several rubber bands

Hot glue gun

Temporary-bond spray adhesive

Clear spray finish

Bell-shaped glass votive candle sconce

Votive candle

INSTRUCTIONS

To cut the base and top, stack the two $5-1/2" \times 5-1/2"$ wood pieces, making sure the grain of both are running in the same direction. Put hot glue beads on the edges to hold the wood together. Adhere the pattern to the wood using spray adhesive.

Bore blade entry holes inside the rectangular slots and inside line "A". Cut out the circle and rectangles, then cut around the outside edge of both pieces. Put a small pencil mark on the edges of these two pieces to be used as a guide for alignment during assembly. On the top piece only, cut line "B" out. Sand as needed and set aside for assembly.

Cut the six side pieces to shape. **Note:** these pieces can be stack cut. Bore blade entry holes for inside cuts and saw out the pieces. Sand as needed.

To assemble, apply glue to the bottom joints of the side pieces and insert all six sides into the slots in the base. Next, apply glue to the top joints and insert them into the top piece. Make sure to align the top and base, using the pencil marks as a guide. To clamp, use rubber bands until glue is dry.

To finish the project, spray with a clear finish. Insert sconce, a candle, and enjoy! **WARNING:** Keep in mind that an unattended candle is a fire hazard.

Visit us online now at:

WWW.WOODENTEDDYBEARONLINE.COM

Free catalog available – Call 888-762-9149



WILD CATS SET
(Pattern No. TBP907)
Both patterns only \$6.95!



RUBY HUMMINGBIRD INTARSIA
(Pattern No. TBP253) Only \$5.95!



PEACE ANGEL
(Pattern No. CC469)
Only \$4.00!



BALD EAGLE INTARSIA
(Pattern No. TBP255)
Only \$10.95!



EAGLE SET
(Pattern No. TBP601)
Both patterns only \$6.95!



NATIVE AMERICAN SET #2
(Pattern No. TBP562)
Both patterns only \$6.95!



BUFFALO
(Pattern No. CC460)
Only \$4.00!

CHECK OUT THESE LOW OLSON BLADE PRICES!

Crown Tooth-sizes 2/0, 2, 3, 5, 7,
9 & 12 1 doz-\$2.15 12 doz-\$23.00

Skip Tooth-sizes 3/0, 2/0, 0, 2, 5,
7, 9 & 12

Double Tooth-sizes 3/0, 2/0, 1, 3, 5,
7, 9 & 12 1 doz-\$1.75 12 doz-\$17.00

Reverse Skip Tooth-sizes 2/0, 2, 5,
7, 9 & 12 1 doz-\$2.00 12 doz-\$19.50

Spiral Tooth-sizes 2/0, 0, 2, 4, 5 & 6
1 doz-\$2.25 12 doz-\$20.00

Precision Ground Tooth-sizes
5, 7 & 9

Precision Ground Double Tooth-
sizes 5, 7 & 9

1 doz-\$3.00 12 doz-\$33.00

MIX & MATCH SAME PRICE BLADES



HEART COLLECTION #1
(Pattern No. TLP751) Only \$4.95!

BUTTERFLY SET
(Pattern No. TBP401)
Both patterns only \$6.95!



ORDER TOLL FREE 888-762-9149

or write to:



THE WOODEN TEDDY BEAR INC.

P.O. BOX 33917

PORTLAND, OR 97292-3917

e-mail: woodentaddybear@pobox.com



Shipping & Handling: please add \$4.00 per order for U.S. orders, and \$6.00 per order for Canadian orders. Request a FREE catalog!



RAM

by Briden Woodworks c/o Brian Vollmershausen and Denise Green

Pattern
Located in
Full Size Pattern
Section No. 21



SUPPLIES

Wood: *pine*—one piece 1/2" x 9" x 12"
Tools: scroll saw with assorted blades; drill with bits
Temporary-bond spray adhesive
Sandpaper, assorted grits
Clear finish of choice
Felt in color of choice, one piece 9" x 12"

INSTRUCTIONS

Make a photocopy of the pattern and transfer it to the selected stock with spray adhesive.

Bore blade entry holes in the waste areas of the pattern. Make the interior cuts first, then saw around the perimeter. Thoroughly sand the piece. Apply two coats of clear finish to the wood. When dry, attach a piece of felt (cut into the oval shape) to the back. 

SCROLLER LTD.

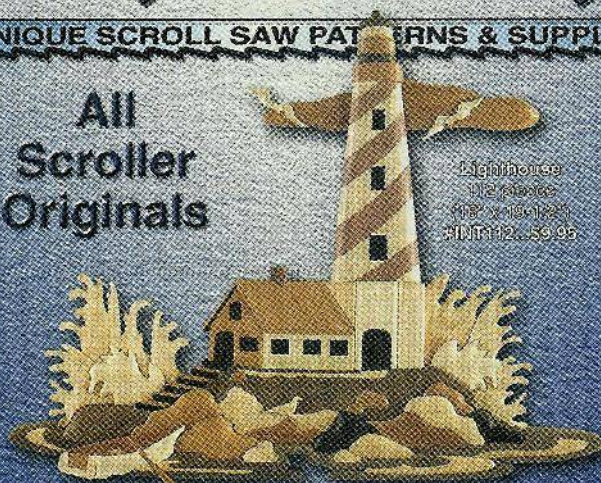
FREE SHIPPING
with all phone orders!
Limited Time Offer!



Chipmunk Clock
(15" x 19")
#4015...\$8.95

UNIQUE SCROLL SAW PATTERNS & SUPPLIES

All Scroller Originals



Lighthouse
(18" x 12")
#INT112...\$9.95



Southwest Skull
(11" x 12" x 14")
#4045...\$7.95

It's Time to
Phone Your Order In
& Receive
FREE SHIPPING!



UNIQUE SCROLL SAW PATTERNS

• Complete step-by-step
instructions guarantees
your success whether
you're a beginner or
an expert scroll sawyer.

CALL FOR A FREE CATALOG

Visit us online!
www.scrollerltd.com

1-800-486-6053



Moose Shelf
(16 3/4" x 20")
#4047...\$8.95



Double Bonus Pattern!

Eagle "America"
(up to 16" each)
#4033...\$7.95



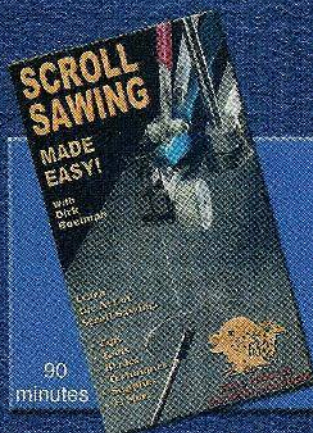
Hummingbird Paper
Towel Holder
#D115...\$5.95



Twin Dragons
(10" x 12")
#4037...\$6.95



#INT111
(11" x 17")
\$8.95



90
minutes

"Scroll Sawing Made Easy"

- Equipment Overview
- Cutting / Contouring
- Pattern / Wood Coverage
- Finishing Techniques

A must have Video for the
beginner to learn the Basics
from a true professional.

#VHS4...\$22.95

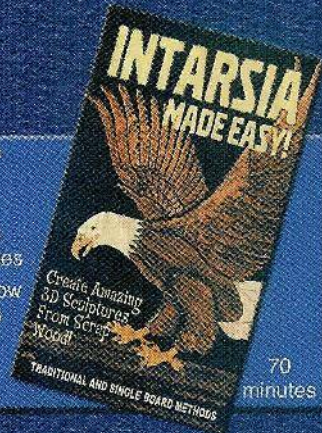
FREE
Full Size
Pattern
included
with each
video!

"Intarsia Made Easy"

- Singleboard Method
- Traditional Method
- Instructions-Start-to-Finish
- Additional Tips & Techniques

Everything you need to know
to make Intarsia projects is
covered. Create your own
masterful Art piece today!

#VHS3...\$24.95



70
minutes

Mail Orders add \$3.00 P&H and send to:

Scroller Ltd • Dept #SCWW061 • P. O. Box 827 • Fenton • MI • 48430

Publisher

Jerry Cohen

CEO

Dorren S. Cohen

Vice President of Circulation & Marketing

Marie-Claire Macdonald

Editorial Director

Robert Becker

Editor

George Ahlers

Associate Editor

Kathy Babinski

Special Projects Editor

Wes Demarest

Scrolling Editors

Dirk Boelman Marilyn Carmin

Roy King Scott Korhondoyfer

Rick Longabaugh Karen Longabaugh

John A. Nelson Raymond Wilckens

Dan Wilckens

Painting Editor

Sheila Bergner

Carving Editor

Ivan Whillock

Intarsia Editor

Robert J. Hlavacek, Sr.

Techniques Editor

Joe Hermann

Art Director

Kelly Alberson

Assistant Art Director

Kimberly Husar

Digital Imaging Technician

Kathleen Nox

Graphic Designers

Beverly Horz • Deborah Mellinger • Kelly McMahon

Photographer

Wes Demarest

Illustrator

Robert Borkowski

Web Developer

Natalie Rhinesmith

Proofreader

Sarah Mathers-Weaver

Public Relations

Madeline S. Cohen

Reader Service

Janice Webster

(973) 383-8080

Advertising Manager

Lee Jaworski

(973) 383-8080 ext. 14

NATIONAL ADVERTISING SALES

Robert Bernbach, Advertising Representatives, Inc.

677 Commerce Street, Thornwood, NY 10594

(914) 769-0051

RETAILERSTo carry *Creative Woodworks & Crafts*® in your store, please write:

All American Crafts, Inc.

243 Newton-Sparta Road • Newton, NJ 07860

(973) 383-8080

For subscription information, write to:

Creative Woodworks & Crafts®

P.O. Box 518, Mt. Morris, IL 61054 1-800-877-5527

Subscription rate: \$41.93/7 issues

Published by All American Crafts, Inc.

PRESIDENT

Jerry Cohen

SECRETARY

Irving Spielberg



From the Editor's Desk

In our March 2000 Millennium Issue, we announced that we were holding an Original Design Contest open to all of our readers. Little did we know how great the response would be. Of course we always knew you were creative, but the entries surpassed all of our expectations. Not only was the contest a resounding success, but we have also become acquainted with some pretty talented people. For example, we've already met Floyd Reynolds whose Uninvited Guests won the Grand Prize, and Matthew Romack whose design, *Sailing the Globe*, took First Place in the scrolling category. The Lighthouse project featured in this issue took First Place in the intarsia category. Barry Lee Martin's Lighthouse can be found on page 50 of this issue.

Another alumnus of the Millennium Original Design Contest is Bobby Redd. Bobby won Honorable Mention for his NASCAR Plaque which was placed in a recent issue. With motor sports being so popular, we knew we had to have more designs from Bobby. During our discussions, Bobby asked me who my favorite driver was. Well I don't follow racing all that closely, but I do watch it occasionally and the legendary Dale Earnhardt was the first who came to mind. That settled it. Bobby decided to design a racing project which was also a tribute to that great driver. We received Bobby Redd's NASCAR Shelf shortly thereafter. That was sometime in the Fall of 2000.

Issues are planned and worked on up to six months or more in advance around here and my original idea was to place the project in a later issue than this—sometime this Fall perhaps. Dale Earnhardt's tragic death on February 18, 2001 at the Daytona 500 sadly transformed the tribute planned for Autumn into a memorial this Summer. Bobby Redd's NASCAR Shelf can be found on page 46 of this issue.

We hope you enjoy this issue. Until next time, all the best and happy woodcrafting!

GEORGE AHLERS

Coming Next Issue!

Don't miss the next issue of *Creative Woodworks and Crafts*! On sale August 14, 2001



Scroll this Hummingbird Bud Vase/Candleholder from Harry N. Nelson.



Craft this Jolly Roger from Robert J. Hlavacek Sr. of Wildlife Intarsia Designs.

You asked for it, and here it is! Tub Adventure from Denise Green and Brian Vollmershausen.



...and much, much more!



Make this Bluegill with Lily Pad Mini Clock from Carl E. Springman.

Check us out online at www.woodworksandcrafts.com
Don't miss a single issue of *Creative Woodworks and Crafts*!

Issue 80 goes on sale August 14, 2001

Issue 81 goes on sale October 2, 2001 • Issue 82 goes on sale November 13, 2001

IT'S LIKE AN EXTRA PAIR OF FINGERS.



Actual Size



Ideal for hobbies.

The QUICK-GRIP® Micro Bar Clamp and Spreader is the ideal tool for your smallest clamping needs.

This convenient one-handed (okay, two-fingered)

clamp features a unique

Quick-Release™ trigger,

which permits the tool to

slide quickly into secure



Easily converts to spreader.

positions while allowing you to keep one hand free.

And the clamp won't

damage your projects

because its soft, durable

pads were designed to

protect delicate work. Extra help is now at your

fingertips. What could be better than that?



Perfect for delicate objects.

QUICK-GRIP®
Micro Bar Clamp and Spreader

www.quick-gripclamp.com

©1998 AMERICAN TOOL
L.S. COMPANY, INC.



Victorian Sleigh

by Rick Longabaugh of The Berry Basket

Patterns
Located in
Full Size Pattern
Section No. 2!



BILL OF MATERIALS

Part	Description	Size in inches	Quantity
<i>Curly Maple:</i>			
A	Sides	3/8 x 7-1/8 x 11	2
B	Back	3/8 x 5 x 5-1/2	1
C	Seat	3/8 x 5 x 4-1/4	1

SUPPLIES

Tools: scroll saw with assorted blades; drill with small bits including a 1/4"-Dia. brad point bit; hand sander; router with router table

Temporary-bond spray adhesive

Sandpaper, assorted grits

Wood glue

No. 18 x 5/8" wire brads

Oil finish of choice

Two 5-7/8" long maple spindles*

*Available from The Berry Basket, P.O. Box 925, Centralia, WA 98531; 1-800-206-9009.

INSTRUCTIONS

Cut the work pieces to size according to the Bill of Materials. Sand as needed. Using spray adhesive, adhere the paper patterns to the wood. Drill blade entry holes where needed. Make all cuts, remove the paper patterns, and sand as necessary. Countersink the inside of the sides (A) with holes 1/4"-Dia. x 1/4" deep on the centers indicated to attach the spindles. **Note:** it may be necessary to shorten the lengths of the tenons.

Assembly

Assemble by first attaching the back (B) to the seat (C), then attach this assembly to one side (A). Insert the spindles and attach the remaining side (A). Finish as desired. 

You've Never Seen a Scrollsaw Pattern Club

Like This Before!

**Projects
for All
Skill
Levels**

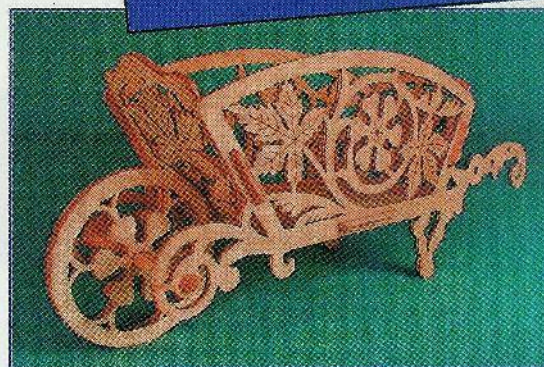
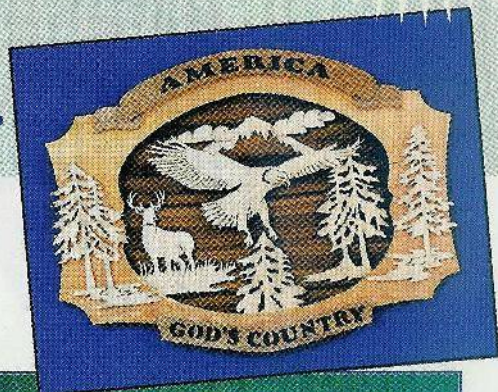
If you enjoy scrollsawing, then
you'll love the Great American
Scrollsaw Pattern Club™!

- Top Quality, Full-Sized Patterns - Shop Tested and Woodworker Approved
- Easy-to-Follow Instructions & Diagrams
- Full Color Photos of Each Project
- 4 Packets a Year, Each With 30+ New & Exclusive Patterns
- Economy - Each Packet has Value Much Greater Than 1 Year Membership Cost
- Bonus Savings - Club Members Get Discounts on Catalog Items

***Join now and you'll receive a bonus of 22
additional patterns absolutely FREE!***

**1 Year
Only \$19.95***

GREAT AMERICAN
SCROLLSAW
PATTERN CLUB™



Join the Club - Call 1-800-206-9009 Today!

The Berry Basket • P.O. Box 925-CWC26, Centralia, WA 98531

*Foreign orders - \$27.95 US funds. WA residents add \$1.54 sales tax. Please allow 4-6 weeks for 1st packet.



The Pontiac Picnic 2000 Mini Clock No. 5

by Dan and Raymond Wilckens of Wilckens Woodworking

Patterns
Located in
Full Size Pattern
Section No. 1!



SUPPLIES

Wood: *hardwood of choice*—one piece $\frac{3}{4}$ " x $5\frac{1}{2}$ " x 9" (for the upright); *contrasting wood of choice*—one piece $\frac{1}{2}$ " x 3" x 12" (for the base), one piece $\frac{1}{8}$ " x $1\frac{1}{2}$ " x $1\frac{1}{2}$ " (for the pendulum)

Tools: scroll saw with assorted blades; drill with bits including a $1\frac{3}{8}$ "-Dia. Forstner bit

Temporary-bond spray adhesive

Sandpaper, assorted grits

Wood glue

Finish of choice

$1\frac{7}{16}$ "-Dia. mini clock insert*

Mini pendulum drive unit No. 2820*

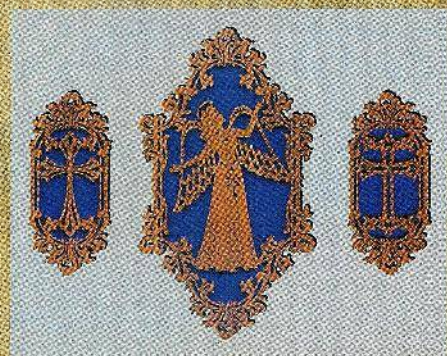
*Available from Wildwood Designs, Dept. CWA, P.O. Box 676, Richland Center, WI 53581, 1-800-470-9090; or visit their website at www.scrollsawing.com.

INSTRUCTIONS

A special thanks to Kyle Wilckens for this original design.

Adhere the patterns to the appropriate stock using spray adhesive. Bore the $1\frac{3}{8}$ "-Dia. hole for the clock movement in the upright. Bore blade entry holes and make all remaining cuts, beginning with the inside and working toward the perimeter. Drill a hole in the pendulum as indicated on the pattern for the pendulum shaft. Remove patterns and sand all pieces smooth.

Glue the upright in place on the base as indicated on the pattern. Apply finish of choice. Insert pendulum shaft into pendulum. Insert clock movement, attach pendulum, and enjoy! 



WILDWOOD DESIGNS

NEW
GALAXY
&
SHARK
BLADES

over 1600 patterns
BIG patterns, small patterns
patterns of every kind

Order
Online

For your
FREE 76 PAGE CATALOG

go to

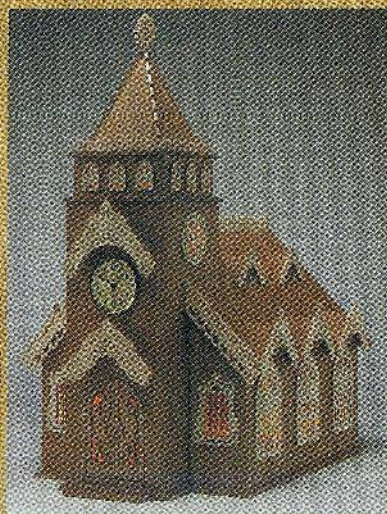
www.scrollsawing.com

or contact us at

1-800-470-9090

Wildwood Designs

Dept. CWA
P.O. Box 676
Richland Center, WI 53581



Your one-stop source for
Clock Movements
Scrollsaw Blades
Scrollsaw Books
Plywood
Hardwood
Tools & more . . .

NEW
CLOCK
STYLES



Pumpkin Puzzle

by Barbara McKee

Pattern
Located in
Full Size Pattern
Section No. 2!



INSTRUCTIONS

Transfer the pattern to the workpiece. Saw around the outer pumpkin shape with the scroll saw. Cut along line "A" all the way across the pumpkin. Cut along line "B" to form the top of the left eye. Cut along line "C" to form the top of the right eye. Cut along line "D" to form the top of the mouth. Cut along line "E" to finish the mouth. Cut along line "F" to complete the puzzle. Remove the pattern and sand all surfaces with 100 grit and then 150 grit sandpaper. Wipe away the sanding dust with a tack cloth.

Transfer the stem detail lines onto the pumpkin. Paint the top surface of the stem Brown. Paint the top surface of the eyes and mouth Black. All remaining surfaces of the puzzle pieces are painted Pumpkin. Let the paint dry.

Sand all pieces lightly to remove any "fuzz" from the grain being raised by the paints. Remove the sanding dust with a tack cloth. Touch up the paint if necessary. Assemble the puzzle, leaving out the eye and mouth pieces.

Transfer the remaining details, including the section lines (shown as dotted lines on the pattern), onto the pumpkin. Add Orange shading around the pumpkin's outline and along the section lines. Mix Orange and Brown 3:1 and use this mixture to deepen the shading around the pumpkin's outline and along the section lines. Let the paint dry. Paint a 7/8" Black circle for the nose. Add the details on the stem with Black.

SUPPLIES

Wood: *pine*—one piece
3/4" x 7" x 8-1/2"

Tools: scroll saw

Acrylic paints: Pumpkin,

Orange, Brown, Black

Transfer paper and stylus

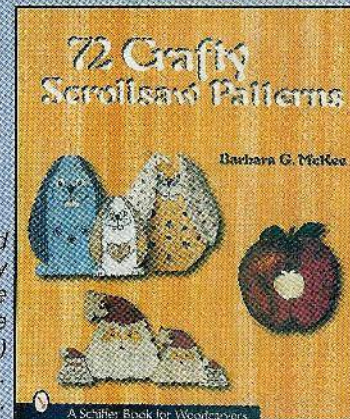
Tack cloth

Sandpaper, 100 and

150 grit

Pictured (to the right) is a book by Barbara titled *72 Crafty Scrollsaw Patterns*. The book is published by Schiffer Books (www.schifferbooks.com) and can be purchased on-line from Amazon (www.amazon.com), Barnes and Noble (www.barnesandnoble.com), Borders (www.borders.com) and Rockler (www.rockler.com).

It is also available at many store locations.



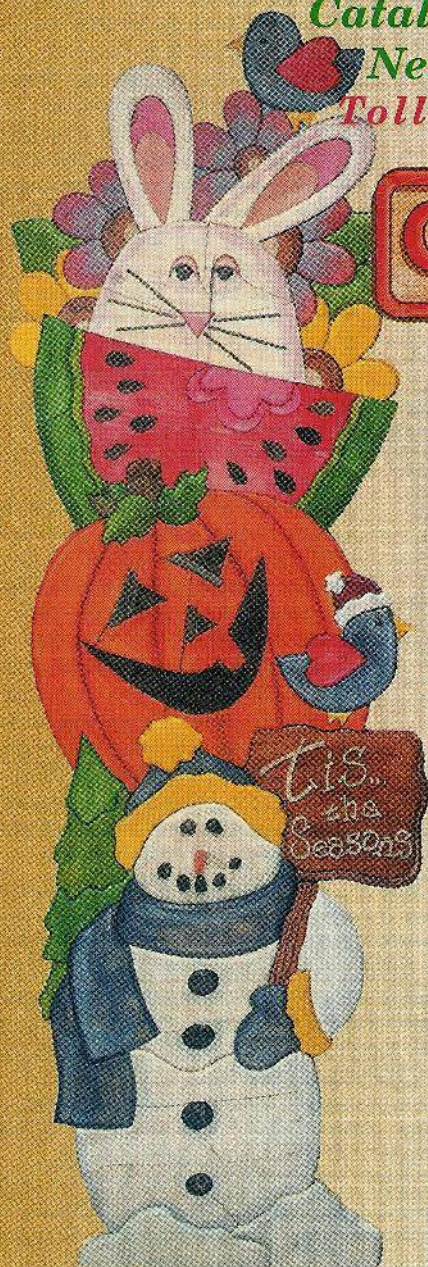
Check us out Online
www.cherrytree-online.com

CHERRY TREE ... The Woodcrafter's Premier Resource For Kits, Plans and Supplies

We Carry Thousands of Items in Our
NEW 76-page Catalog!

Get a FREE Copy Today! Our
Catalog is Now Available on Our
New and Improved Website.

Toll Free Fax: 1-888-848-4388



CherryTree



P.O. Box 369
Belmont, OH 43718
1-800-848-4363
ext. CW114



"Miss Jenny" Bud Vase/Candleholder

by Harry N. Nelson

Patterns
Located in
Full Size Pattern
Section No. 11



Designer Profile Meet Harry N. Nelson

I became interested in scroll sawing after a trip to Tennessee. We decided to take a week of my vacation and go down into the Smokey mountains, staying in Gatlinburg. On one of our side trips, we came to a craft shop where some men were using two scroll saws. One of the men noticed how closely I was watching him and asked me if I would like to try some cuts on his saw. He gave me a little advice and then handed me a piece of pine and told me to follow the lines on it. With that first cut, I was hooked on scroll sawing. When we returned home, I went out and bought some books on scroll sawing by John Nelson and Patrick Spielman, which were very inspiring and helped me a lot. I have been scrolling for five years now and have enjoyed every minute of it.

Since then, I have met most of the top scrollers: Roy King, Scott Kochendorfer, John and Joyce Nelson, Patrick Spielman, Dirk and Karen Boelman, and Dan and Raymond Wilckens. You could not find better people. They are like family.

While at the 2000 Midwest Scroll Saw Picnic in Pontiac, Illinois, John Nelson introduced me to George Ahlers, editor of *Creative Woodworks and Crafts* magazine. John and George liked my two bud vase designs, Miss Jenny (named after my granddaughter Jennifer) and the Hummingbird. George said he would like to put the designs in *Creative Woodworks and Crafts*. Now that Miss Jenny is printed, I hope everyone enjoys them as much as I enjoyed designing and cutting them.

SUPPLIES

Wood: oak or wood of choice—two pieces 1/4" x 5-1/2" x 5-1/2"
Tools: scroll saw with Nos. 2 and 5 blades; drill with bits
Temporary-bond spray adhesive
Sandpaper, assorted grits
Tack cloth
Clear finish of choice
Wood glue
6" x 1/2"-Dia. plastic tube* (for bud vase) or a 3" x 5/8"-Dia. dowel, a 1-1/4" x 5/8"-Dia. candle cup* and a 1-5/8" drywall screw (for candleholder)

*Available from Wildwood Designs, Dept. CWA, P.O. Box 676, Richland Center, WI 53581, 1-800-470-9090; or visit their website at www.scrollsawing.com.

INSTRUCTIONS

This design was inspired by my granddaughter, Jennifer.

Adhere patterns for panels A and B to the wood with spray adhesive. Drill blade entry holes, then make all cuts with your scroll saw. **Note:** these patterns can be cut separately or stack cut. If stack cutting, you'll need to cut the top and bottom slots out separately. Also, if you use wood thicker than 1/4", be sure to make the two slots the same thickness as the wood.

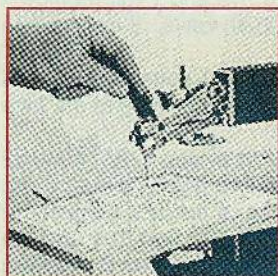
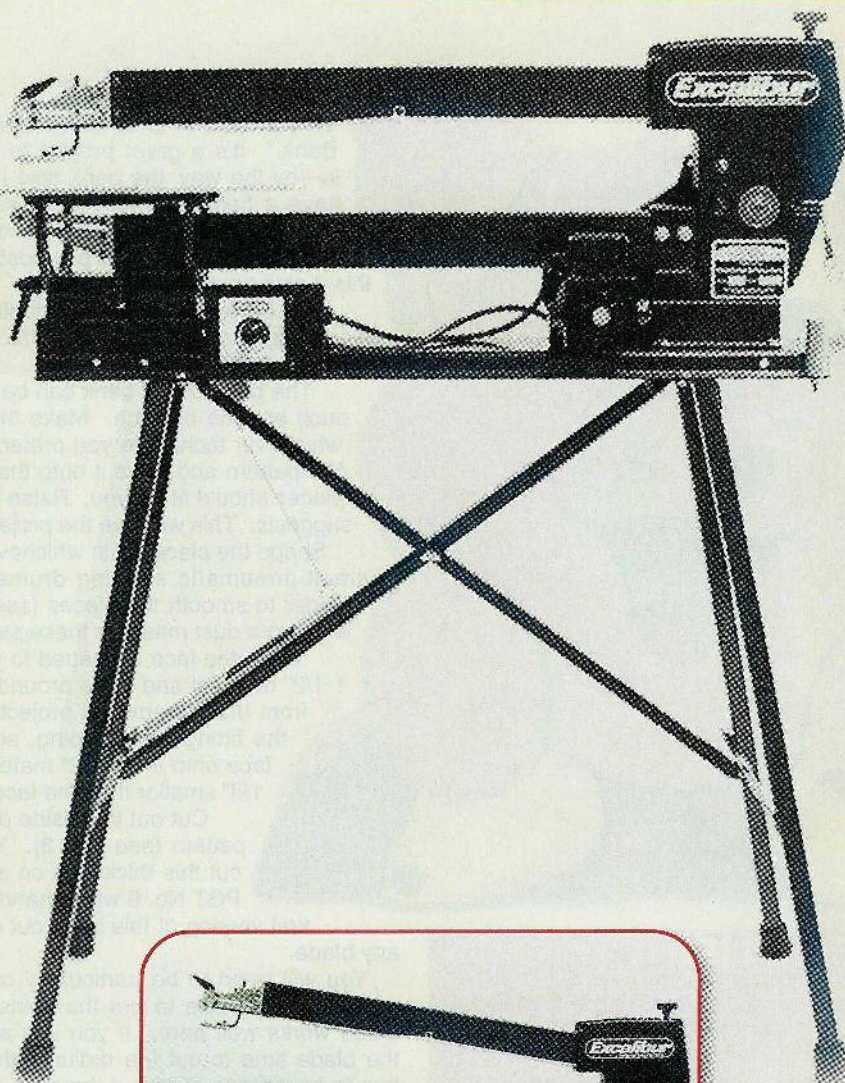
Once all cuts have been made, remove patterns, sand, and wipe down with the tack cloth. Apply finish of choice (I prefer tung oil). **Note:** this project can also be painted if desired.

To assemble, apply glue to the surface of the slots on panels A and B. Interlock the two panels and allow to dry. Place insert of choice into newly formed holder. For candleholder, first screw the candle cup on the end of the dowel, then round over the opposite end of the dowel to fit the contour of the holder.

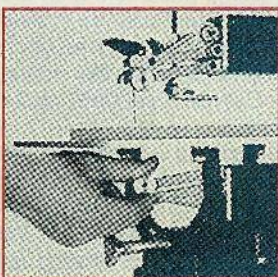


EXCALIBUR
BY
SOMMERVILLE
DESIGN

Makes Inside Cuts & Blade Changes EASY!



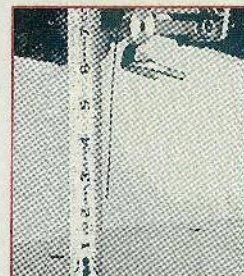
Flip the tension release forward to release the tension on the blade...



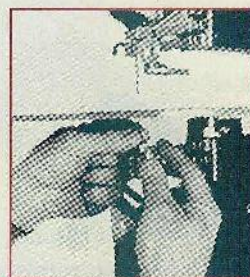
...Twist the BOTTOM clamp knob to release the bottom end of the blade...



...Lift the top arm with the blade above the workpiece...



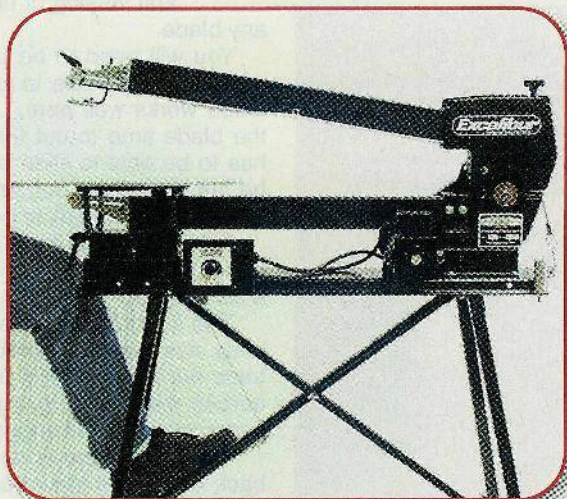
...The bottom end of the blade lifts up to 2-1/4" above the table top on the EX-30 & up to 1-1/4" on the EX-19...



...Thread DOWN through the workpiece into your next inside cut FROM THE TOP side of your workpiece...



Another EXCALIBUR feature you will enjoy is the precise, straight path of the blade. NO BLADE WOBBLE!



Add the optional PAL-01 "Top Arm Lift Pedal", to free both hands for guiding your blade and workpiece, by lifting the arm with your foot.

Seyco
The Scroll Saw Specialists, INC.
Box 1900 • Rockwall, TX 75087

EXCALIBUR scroll saws carry a 5-year limited Warranty. Excalibur scroll saws are guaranteed against defects in material and workmanship for five years. The original purchaser may also arrange for the factory to rebuild the saw (replace all moving parts) and have the saw warranty renewed at any time up to five years from date of purchase. SEYCO extends a 30-day performance satisfaction guarantee. You must be satisfied that your EXCALIBUR saw is everything we say it is, or you simply arrange to return the saw to SEYCO for a full refund of the purchase price.

ORDER TOLL FREE 1-800-462-3353 or visit on the web at www.seyco.com



by Garnet Hall

Piggy Bank

Patterns
Located in
Full Size Pattern
Section No. 1!



INSTRUCTIONS

This project is another version of that classic, "The Piggy Bank." It's a great project to save all your pocket change in—by the way, the bank also holds bills. This bank doesn't have a hole to empty it, so here's how it's going to work. When the bank is full, just send it to me and I will replace it with an empty one. I will pay postage both ways. If you believe this, I also have a bridge for sale.

My bank is an intarsia adaptation that I hope you will find interesting and challenging. I think it will bring a smile to the face of any child or grandchild.

The body of the bank can be cut out of any 1-1/2" material such as pine or birch. Make the intarsia pig face first, using whichever technique you prefer. I like to make a template of the pattern and trace it onto the wood. Cut carefully and the pieces should fit for you. Raise and lower them as the pattern suggests. This will give the project more of a relief look.

Shape the pieces with whichever tool you prefer. I like using small pneumatic sanding drums (see Fig. 1). I use a flap sander to smooth the pieces (see Fig. 2). Make sure you are wearing a dust mask for these steps.

Once the face is shaped to your liking, assemble it on the 1-1/2" material and trace around it. You could use my outline from the pattern, but projects often change as a result of the fitting and shaping, so it's best to trace the actual face onto the 1-1/2" material. Cut the bank body about 1/8" smaller than the face.

Cut out the inside of the body as indicated on the pattern (see Fig. 3). You will need a good blade to cut this thickness on a scroll saw. I used an Olson PGT No. 9 which handled it fine. I actually made my first version of this bank out of full 2" birch, a challenge for any blade.

You will need to be particularly careful cutting out the left ear, which is removable to put the coins in. A band saw with a 1/8" blade works well here. If you use a scroll saw, cut slowly, giving the blade time to cut the radius without blade waiver. The piece has to be able to slide out the back of the bank body, so it has to be cut absolutely perpendicular. The scroll saw leaves a smaller kerf so the piece will fit better.

Next, make the front and back boards. I used 1/4" Baltic birch plywood. Notice on the pattern that the front and back boards are a bit different.

The first thing to be aware of is that when you cut out the bank body, it is likely to spread a bit where the left ear is. So, when you trace out the front and back boards, put the ear part in and clamp across the coin opening as indicated on the pattern. I used a spring clamp small enough to fit in the bank body (see Fig. 4).

The front board is cut off where the dotted line indicates. The back board has the whole left ear cut out of it. This will allow the ear to be removed from the back and not from the front.

Glue the front board onto the bank body with the left ear piece in place and clamped. I used 3/4" wood screws to hold the front board in place while the glue dried. Once dry, I removed them (see Fig. 5). Glue the ear piece cut from the front board onto the left ear.

Drill a 1-1/2" hole in the back board for a place to remove the coins. (I gave up on my returnable bank idea.)

Cut a piece the shape of the dotted outline on the back pattern for the hole plug. Glue on a 1-1/2" dowel or use a 1-1/2" toy wheel. It will friction fit. If a bit loose, spread some glue around the dowel

SUPPLIES

Wood: light colored western red cedar—one piece 1" x 8" x 12"; medium light colored western red cedar—one piece 1" x 2-1/2" x 6"; dark colored western red cedar—one piece 1" x 6" x 6"; aspen—one piece 1" x 4" x 6"; aromatic cedar—one piece 1" x 2" x 2"; black walnut—one piece 1" x 1" x 2"; padauk—one piece 1" x 2" x 2"; birch or pine—one piece 1-1/2" x 10" x 10" (for the body); Baltic birch plywood—two pieces 1/4" x 10" x 10" (for the front and back boards)

Tools: scroll saw with Olson PGT No. 9 blades; band saw with a 1/8" blade; drill with 1/4"-Dia. and 1/2"-Dia. brad point bits and a 1-1/2"-Dia. Forstner bit, Pneumatic drum sander*

Spring clamp

Wood glue

3/4" wood screws

Two 1/4"-Dia. x 1/2" long walnut dowels

1-1/2"-Dia. dowel or toy wheel

Minwax Satin Durathane or finish of choice

Garnet Hall has written a great book about intarsia. Entitled *The Art of Intarsia*, it features 20 great projects, and tons of helpful tips and info. It is available from PS Wood Machines, 3032 Industrial Blvd., Bethel Park, PA 15102; (800) 939-4414. Price is \$17.95 plus \$4.50 (S&H)/U.S. or can be ordered directly from Garnet Hall, Box 549, Stoughton, Sk. Canada SOG 4T0; (800) 729-2473. For more of Garnet Hall's great designs, visit his website at www.sawbird.com.

* Available from Garnet Hall, Box 549, Stoughton, Sk. Canada SOG 4T0; (800) 729-2473 or from PS Wood Machines, 3032 Industrial Blvd., Bethel Park, PA 15102; (800) 939-4414.

and inside the hole to build them up for a better fit.

Next, glue on the back board. Finally, glue on the intarsia face as you would usually do. When I had everything glued up, I sanded the bottom of the bank on my belt sander to get a smooth base. Hold the bank tight when you do this.

Use whatever finish you like. I used Minwax Satin Durathane (three coats on the front and one on the back). Sand between coats.



Fig. 1. I use small pneumatic sanding drums to shape my intarsia pieces.

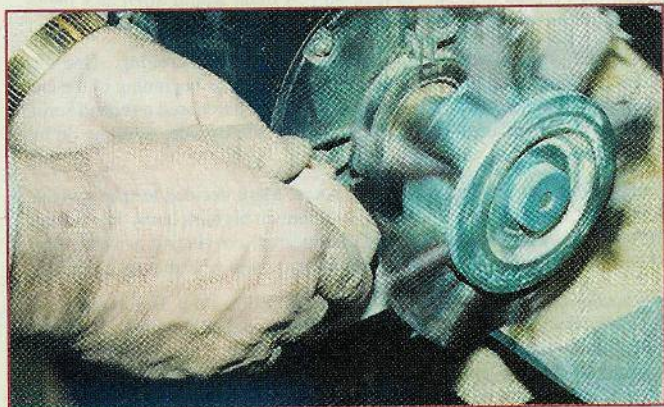


Fig. 2. Smooth the pieces with a flap sander.

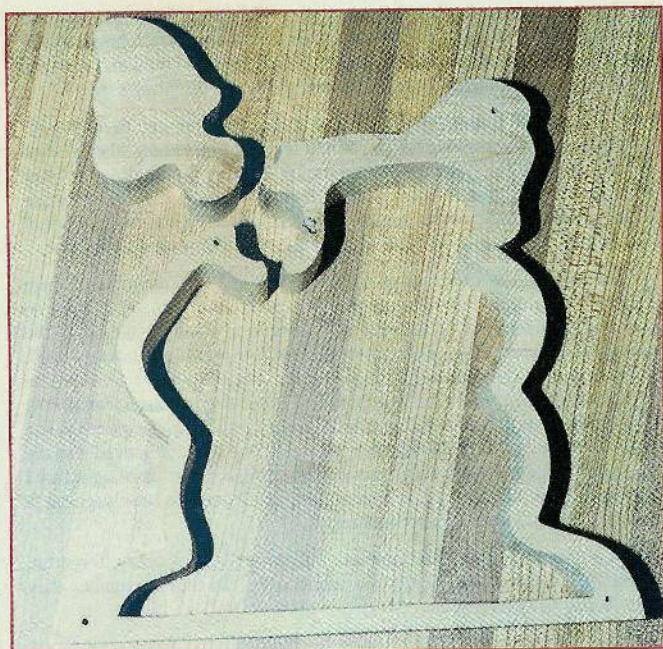


Fig. 3. Cut the bank body.

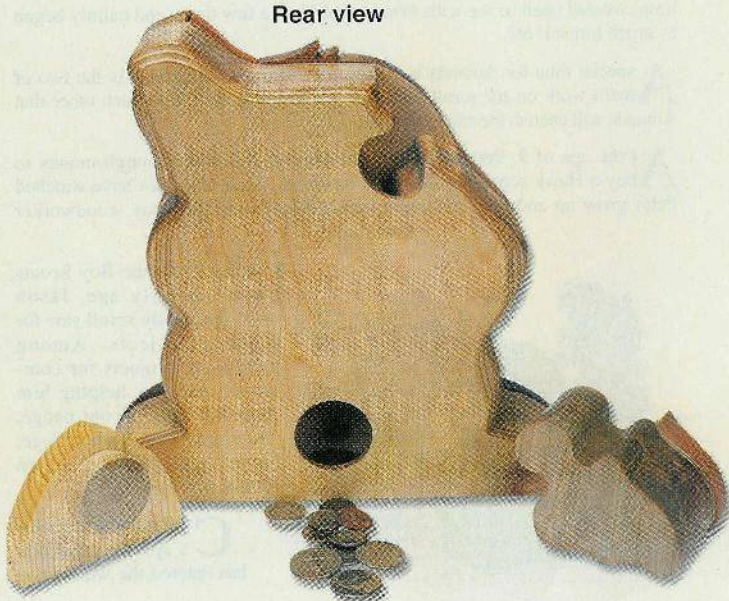


Fig. 4. Be careful that the slot for putting money into the bank does not spread. Put the ear in place and use a spring clamp to keep it from spreading.



Fig. 5. Glue the front board onto the bank body.

Rear view





TRUE SCROLL SAW STORIES

by Marilyn Carmin

During all the years I've been scrolling, I have had numerous opportunities to visit with others who share this common interest. Many people have related their experiences to me and I would like to pass a few of them on to you. Some of these stories are funny, many are inspiring, but all are true.

Each time Ruth sat down at her scroll saw her Irish setter took it as an invitation to play ball. Ruth became very adept at ricocheting the ball out the door of the shop, scrolling until the dog returned with the ball, then repeating the process.

After three solid days of cutting, Frank's project was finally complete. While admiring it, his friend and neighbor held it up against the shop wall. It slipped! It fell! It hit the cement floor! Need I say more? Frank says, "All is forgiven and we are still friends."

Rising early one day and showering, Beth was anxious to get busy scrolling. After cutting for over an hour, Beth realized she had forgotten something. She had become distracted on her way to dressing and found herself standing at her scroll saw wearing nothing but her bath towel.

I've talked to many people who use their scroll saw for cutting a lot of different material. I know of quilters who cut fabric, stained glass artists who cut glass, and jewelers who cut precious metals. But one of the most unusual has to be a commercial caterer I know of who uses her saw to cut company logos from frozen steaks.

Eric had been using his scroll saw for about six months. He faithfully plugged the saw in before use and unplugged it when done. One day, his young daughter pointed to the on/off switch on the side and asked what it was for. Eric had been unplugging his saw all that time because he was unaware of the on/off switch.

Especially like stories about kids. There is something about the combination of scroll saws and children that can be inspiring. John, age 12, wanted a new bike. His parents suggested that he might find a way to earn the needed money using the scroll saw. He began cutting ornaments, then started selling them around their small town. He soon had his bike.

Walter claims his scroll saw is the best purchase he ever made. Not because of how well it works or what he can make with it, but because it was the first time he had seen his three boys, ages 9, 11 and 12, work together toward a common goal. That goal? Scrolling a Christmas gift for their grandmother.

Two young boys were standing watching their father saw. One of the boys took in a big breath and blew out as hard as he could. His brother, now covered head to toe with sawdust, blinked a few times and calmly began to brush himself off.

A special time for Amanda is visiting Grandpa's wood shop. As the two of them work on the scroll saw they are spending time with each other that Amanda will cherish the rest of her life.

At the age of 9, Peter had worked odd jobs and saved enough money to buy a Hawk scroll saw from my husband. Since then, we have watched Peter grow up and have also seen him build a wood shop any woodworker would envy.

Involved with the Boy Scouts from an early age, Jason used the family scroll saw for scouting projects. Among these were projects for community service, helping him earn his Eagle Scout badge. Now graduated from college, Jason continues to be an active scroller.

Communicating with a spouse once one has entered the wood shop

is an ongoing problem for many of us. Some have installed intercoms, while others just make a habit of checking in once in a while. After receiving no response to her calls, Jill went out to the wood shop. There, she found Jack fast asleep with his head resting on his scroll saw.

Timing is everything and Mary's timing seemed to be perfect. Each time she went to the top of the stairs to call her husband from his basement shop, a saw would turn on. The solution: Mary found herself a large cow bell, one her husband can hear even over his saws.

Tim and Steve paid a visit to Steve's father. When his father went out to his shop to get something, Steve suggested they might as well go home. It was a well known fact that once Steve's dad stepped into his wood shop the outside world ceased to exist. In fact, Steve's mom would often take meals to the shop to ensure that dad was eating.

Sue would often sit and visit with George as he was scrolling. One day George encouraged Sue to try his saw. That was the beginning of the end for George using that saw. In self defense, George purchased a second scroll saw. Now the two of them can be found sitting side by side, scrolling on his and her's saws.

After cutting out reindeer for several hours, Mark decided to take a break. Stepping from his shop he spied a large deer on his back lawn. By the time Mark's wife joined him, the deer had disappeared, convincing her that Mark had been cutting reindeer so long that he now saw them wherever he looked.

As a sales representative for the RBI Hawk, Ellen often demonstrates the saw's capabilities by cutting a person's name out of the inside of a small wooden heart. After sawing the name of one young man's girlfriend, Ellen was asked to add four additional words: "Will you marry me?" A short time later, the young man returned with his new fiancée. Ellen has seen this couple several times since, once with their wedding photos, the last time carrying their first child.

Shortly after learning that her singing group (which has a flamingo logo) had been selected to compete out of state, Cheryl came home to a house full of flamingos. Her husband had cut hundreds of flamingos, all styles and sizes, on his scroll saw. These flamingos were then sold to finance the group's trip.

The last thing the Smiths did before leaving for their ten-day vacation was to close the automatic garage door. When they returned home, they parked their car in the driveway and entered the house through the front door. Once inside, they heard a strange noise coming from the garage. Upon investigation, the Smiths found that the garage door had closed on the foot switch of their scroll saw. The saw had been running the whole time they were gone.

One of my favorite experiences happened while I was attending a trade show. An elderly Japanese gentleman came up to me. He spoke no English and his interpreter spoke very little either and what she did speak did not pertain to woodworking. This, however, didn't stop us from "talking shop". He seemed to enjoy himself as he played on my scroll saw and I could see he was a talented woodworker. As he prepared to leave, he gave me a formal bow and then reached over and took my hand. Turning it palm up, he placed in it a one inch hardwood cube. Closing my hand around the cube, he moved it to my car and gently shook it—the cube was actually a small rattle. It is a gift that I cherish to this day. What I learned from this experience was that language is not a barrier when there is a common interest.

I hope you have enjoyed these stories. People are just as crazy, forgetful, inventive, inspiring, and funny the world over. In these instances they happen to also be scrollers!



CLOCK•PARTS from...BRADCO

We specialize in **CLOCK PARTS** and are the **LARGEST DISTRIBUTOR** in the Southeast with the **LOWEST PRICES!!**



**CALL
TOLL FREE**

1-888-236-8263

- **CALL TOLL FREE** for a **FREE 40-PAGE CATALOG**
- **THOUSANDS** of Movements in Stock **AT ALL TIMES**
- **FAST SERVICE, SAME DAY SHIPPING**
- **ABSOLUTE LOWEST PRICES**

BRADCO
enterprises

4242 31st St. North • St. Petersburg, FL 33714
727/894-7176 • Fax: 727/527-2427
WEBSITE: <http://www.bradcoent.com>

LARGEST VARIETY
UNUSUAL AND HARD TO FIND ITEMS
ALWAYS AT WHOLESALE PRICES

- Over 350 Musical Tunes & Animation Devices
- Lamp Parts & Kits
- Cup Hooks
- Mirrors
- Display Devices

Craft Catalog \$3

National Artcraft Co. 7996 Darrow Road • Twinsburg, OH 44087
Phone: 888-937-2723 Fax: 800-292-4916
e-mail: nationalartcraft@alltel.net
Web: <http://www.nationalartcraft.com>

WILDWOOD DESIGNS

We offer one of the widest selections of scroll saw patterns and supplies anywhere, including clocks like those shown below.

For your
FREE 76 PAGE CATALOG
go to

www.scrollsawing.com

or contact us at

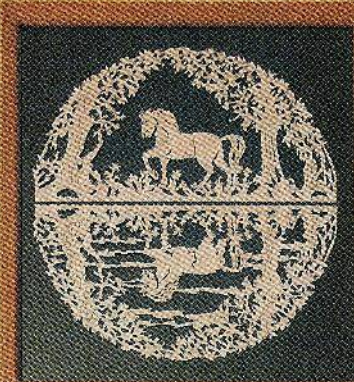
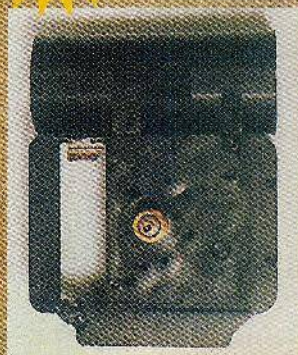
1-800-470-9090

Wildwood Designs, Inc.

Dept. CWB

P.O. Box 676, Richland Center, WI 53581

Save
\$\$\$\$ on
scroll saw
blades.





Arrowhead Bolo and Buckle

by Robert J. Hlavacek, Sr. of Wildlife Intarsia Designs

Patterns
Located in
Full Size Pattern
Section No. 1!



SUPPLIES

Wood: ironwood* or figured wood of choice—one piece 3/8" x 1-1/2" x 2-1/2" (for the bolo tie), one piece 3/8" x 2-1/2" x 4" (for the buckle)

Tools: scroll saw with No. 3 blades; rotary grinding tool and bits; drill press with sanding drum and flutter wheel** (with 180 grit abrasive)

Temporary-bond spray adhesive

Double-sided tape*

Clear box sealing tape

5-minute epoxy

Lacquer thinner

Delta Matte Interior Spray Varnish

Brass bolo clip*

Brass bolo tips*

Brown bolo cord*

Brass belt buckle*

*Available from Treeline, call 1-800-598-2743.

**Available from Klingspor's Woodworking Shop, call 1-800-228-0000.

INSTRUCTIONS

Preparation

Note: if the wood you will be using is more than 3/8" thick, you will need to resaw and/or belt sand it to the appropriate thickness.

Attach a copy of the pattern to the stock with spray adhesive. Wrap the wood in clear box sealing tape and cut out with a No. 3 blade (see Fig. 1).

Use double-sided tape to attach a block of wood to the back of the arrowhead, creating a handle to safely sand the contour as shown in Fig. 2. Refer to Figs. 3 and 4 for typical contours of the arrowhead profiles. After sanding, the thickest section should be about 5/16" thick.

Carve the edges of the arrowhead with a rotary grinder and various size burrs (see Fig. 5).

Sand the arrowhead smooth with a flutter wheel as shown in Fig. 6.

Finishing

Since ironwood and some exotics are oily, wipe the wood with a cloth dampened with lacquer thinner before spraying the finish.

When the finish is dry, epoxy the hardware to the back of each piece as indicated on the pattern (see Fig. 7).

For more information on Wildlife Intarsia Designs patterns, contact Robert J. Hlavacek, Sr., P.O. Box 1246, North Riverside, IL 60546-0646; (708) 788-6455; or on the web: wildlifeintarsiadesign.com.

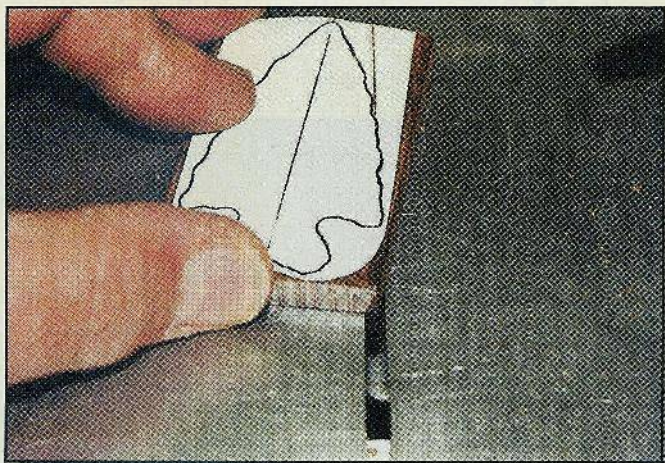


Fig. 1. Saw the piece to shape.



Fig. 2. Use a drum sander to shape the piece.

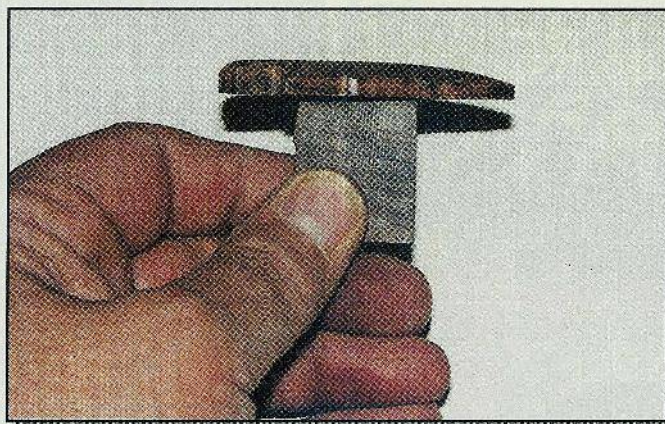


Fig. 3. Side view, showing the front to back contour.

continued on page 28

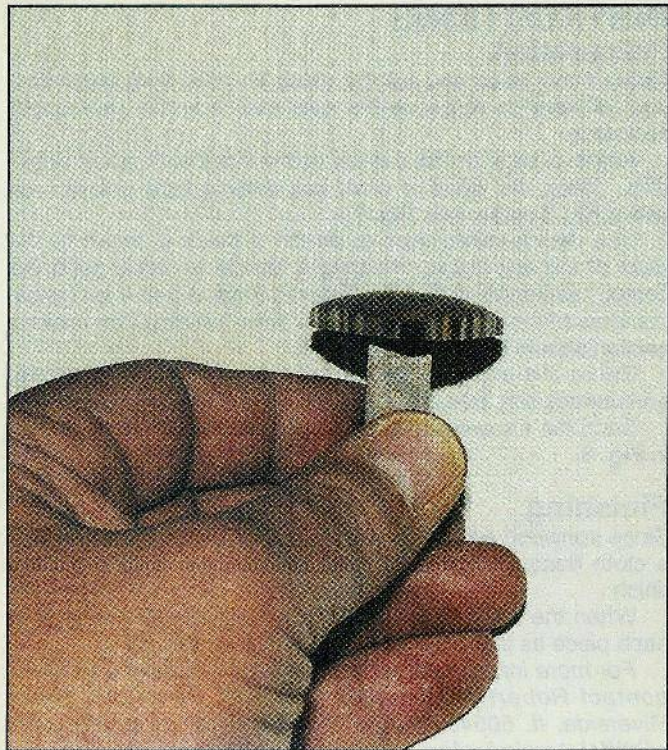


Fig. 4. Front view, showing the side to side contour.

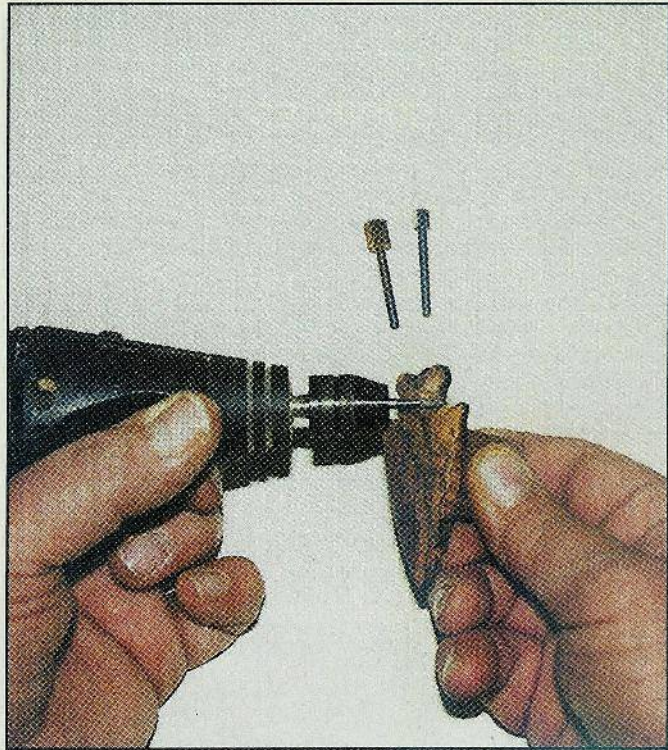


Fig. 5. Carve the piece with a rotary grinding tool and various size bits.



Fig. 6. Sand the piece with a flutter wheel.



Fig. 7. Fasten the belt buckle and bolo clip with 5-minute epoxy.

Be one of the first 3D Wood Art™

Discover the fascination



*Sold for
\$200.00.

Let 3D Wood Art™ patterns
take your projects to a new level.



Easy to make, highly profitable*
projects that use never-before-seen
techniques and layouts.

Each book contains five new projects
plus fifty additional patterns that can
be used in any combination
to create your own
original designs.

\$19.95
per volume

Order today call: 1-800-550-4884
or send \$19.95 per volume + \$5.00 S/H:

Vol. 1 - Southwest 3D Wood Art™
Vol. 2 - Sports Box 3305
Vol. 3 - Seascapes Chatsworth, CA
Vol. 4 - Wildlife 91311

www.3DWoodArt.com

California residents please add \$1.60 sales tax per volume.

Save \$10

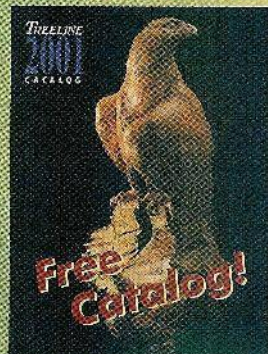
Get all 4
volumes
for \$69.95

Exotic Wood For Your Intarsia Projects

TreeLine Has Exotic And
Hard To Find Domestic Wood
From Aspen To Zebrawood

TreeLine is your best source for:

- Excelsior Scrollsaws
- D&B Scrollsaw Blades
- Project Supplies
- Carving Tools
- Complete ArborTech Line
- Unique Items For Every
Woodworker



Call 1-800-598-2743

For Your FREE Catalog Or Visit
Us Online At www.treelineusa.com

Electro-File™

Finally... A Precision Reciprocating Tool To Do The Hand Detail Work For You.

Electric Version for Bench Use - Battery Pack Version for Portable Use

Mothers Day & Fathers Day
SPECIAL OFFER

ORDER ANY MODEL *Electro-File*™ & RECEIVE OUR NEWEST
PRODUCT #126 MINIATURE FILE SET W/ CASE (A \$12.95 VALUE)

FREE

OFFER GOOD BETWEEN 04/01/01 AND 06/30/01



Full 1/4" Stroke Length
2700 Strokes Per Minute. Use On
5/16" Or Thinner Softwoods

FILES & SANDS

Model
2100 Deluxe
Tool Kit
\$129.95

Deluxe Model 2100 Kit Includes:

Model 2000 Electric Version
Adaptor UL & CUL
2 Cutting Blades
1 Sanding Paddle & 20 Sanding Strips
10 pc. Needle File Set with Case

Model 2000
Electric Version - 110V
Battery Pack Version - 24V
10 pc. Miniature
Electric Version
10.25" length x 3" diameter
Battery Pack Version -
10.25" length x 3" diameter

Model
3100 Deluxe
Tool Kit
\$139.95

Deluxe Model 3100 Kit Includes:

Model 3000 Battery Pack Version
2 Detachable Battery Packs & Charger Base
Adaptor UL & CUL
2 Cutting Blades
1 Sanding Paddle & 20 Sanding Strips
10 pc. Needle File Set with Case

In contiguous U.S.A. Add \$6.75 Shipping & Handling. UPS-COD orders add an additional \$6.00
WI residents add 5.5% sales tax. Canadian residents call, fax or email for dealer information.



PRECISION
Hobby
Tools

Call TOLL FREE 1-877-872-0924

Order ON LINE With Our Secure Web Site www.precisionhobby.com

P.O. Box 195, Hubertus, WI 53033-9799

Fax: 1-262-628-9976

E-mail: sales@precisionhobby.com



Turning a Corian® or Other Solid Surface Pen

by Barry Gross (Mr. Solid Surface) of BG Artforms



SUPPLIES

Corian® or other solid surface material

Tools: scroll saw with assorted blades or band saw; lathe with mandrel and appropriate bushings for the individual pen kit; 3/4" roughing gouge or heavy scraper; 1/2" skew chisel; drill or drill press with the appropriate drill bit for the individual pen kit; drill vise; small metal square; barrel trimmer; pen tube insertion tool (or pencil) Pen kit (slim line, cigar or roller ball style)**

Ethyl alcohol or acetone

Spring clamps

Aluminum oxide 2" x 2" sanding pads*

Hot Stuff Super 'T' cyanoacrylate (CA) glue***

*Available as a set (PFK-1) for \$13.95 (plus \$1.75 S&H) from BG Artforms, 2189 Philip Drive, Bensalem, PA 19020; (888) 717-4202; website www.bgartforms.com.

**Available from Woodcraft (800) 225-1153, Penn State Industries (800) 377-7297, and HUT Products, Inc. (800) 547-5461.

***Available also from BG Artforms in a 1/4 oz. bottle (hst-2) for \$2.95 (plus \$1.75 S&H).



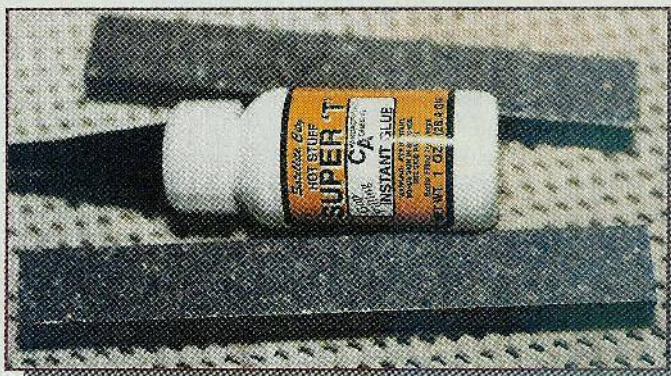
Step 1. Depending on the pen you wish to turn, you might have to glue two 1/2" pieces of Corian or other solid surface material together. If you are making the "slim line" style pens, the 1/2" material will be fine.

Cut the solid surface material of your choice to either 1/2" x 5" for the slim line pen or to a 3/4" x 5" piece for the larger pens. Some of the larger style pens are the "cigar" type, or the roller ball type of pen.

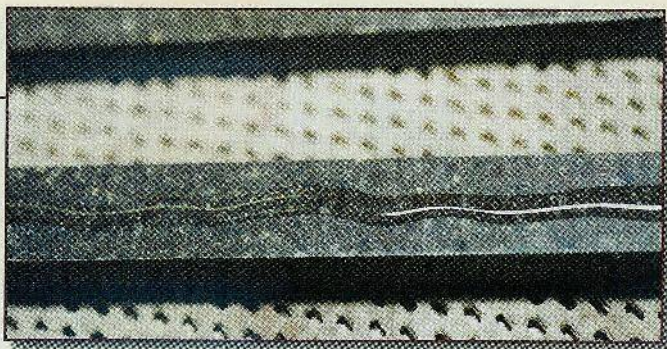
INSTRUCTIONS

Before we begin this project, I must inform you that DuPont has voiced their concerns about the name "Mr. Corian." Because of these concerns, "Mr. Corian" will now be referred to as the more general "Mr. Solid Surface."

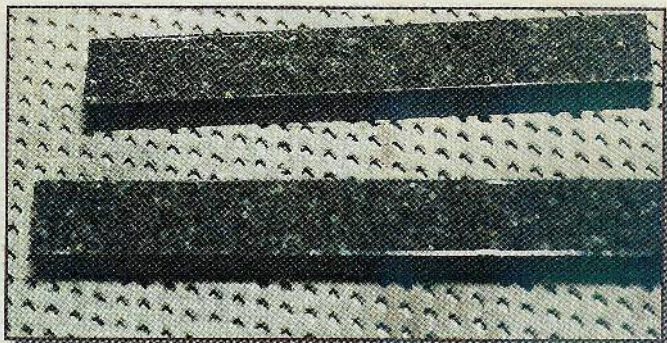
Therefore, without further ado, we will start with the safety aspect of any turning project. Always wear eye protection! Mr. Solid Surface wears safety glasses as well as a face shield. A face shield is necessary because the chips of material turning off the pens will sting if they hit your unprotected face! Also, loose clothing is a no-no and if your hair is long, tie it back or put it under a hat. It would be a shame to have it wrapped up in your pen! Turning solid surface material is no more difficult than turning exotic hardwoods when your tools are sharp. The real secret to successfully finishing your solid surface or acrylic material is having the proper cushioned aluminum oxide sanding pads.



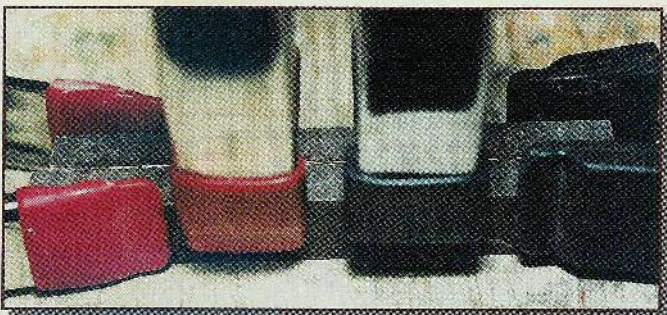
Step 2. Prepare the pieces that will be glued by wiping them with ethyl alcohol or acetone and use Super 'T' CA glue. Super 'T' CA glue is a gap filling glue and takes about 30 seconds to dry, giving you more time to properly place the pieces together. It is also less likely to show a glue line.



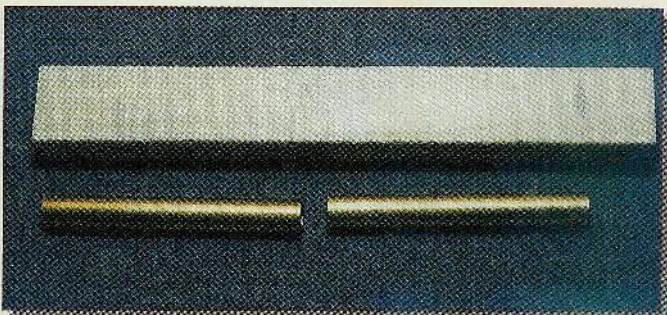
Step 3. Place a bead of glue on the front of the solid surface. You should glue the two front sides together so you will avoid a glue line showing up at a later time.



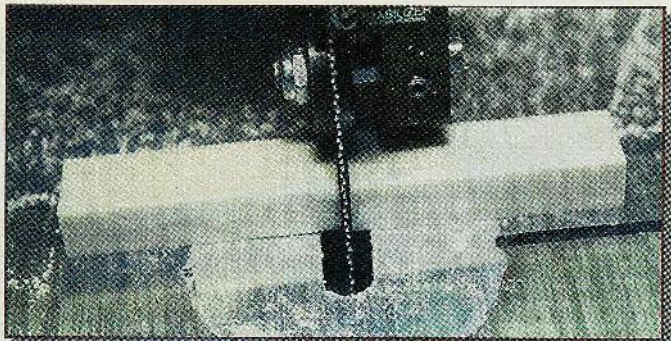
Step 4. Rub the two good sides together and pull them apart to inspect that you have glue covering the entire piece of both halves of your material.



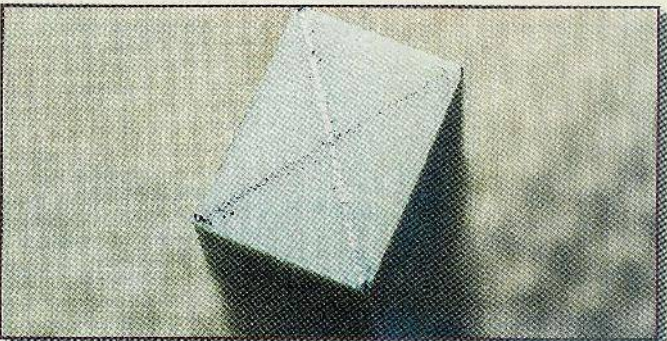
Step 5. After the glue is applied, clamp the pieces together with several spring clamps. Allow this to dry thoroughly, about 25 minutes. **Caution:** Super 'T' CA glue does not discriminate between solid surface and your fingers! So, beware!



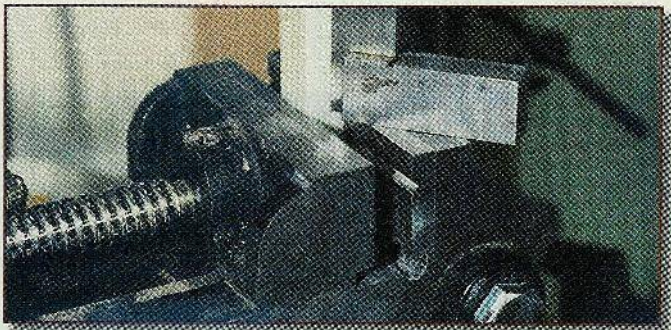
Step 6. When the glue has set, take the metal tubes for your pen and place them next to your material and mark where it should be cut.



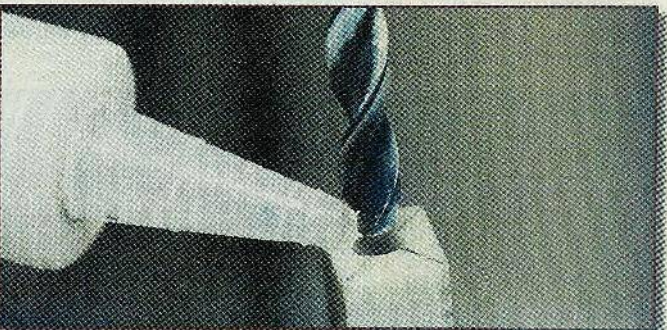
Step 7. Cut your material with a band saw (or your scroll saw) where indicated in the previous step.



Step 8. After the sections have been cut, find the center of the piece by drawing a line from corner to corner.



Step 9. Align your material in a drill vise using a small metal square.

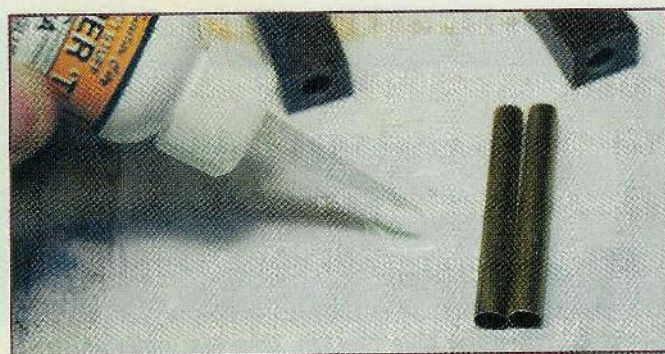


Step 10. Start drilling for the tubes, relieving the material often. About 2" into the material, back your drill bit out and place a few drops of water into the hole. By using water, you will lessen the chance of a "blow out" on the bottom of your material.

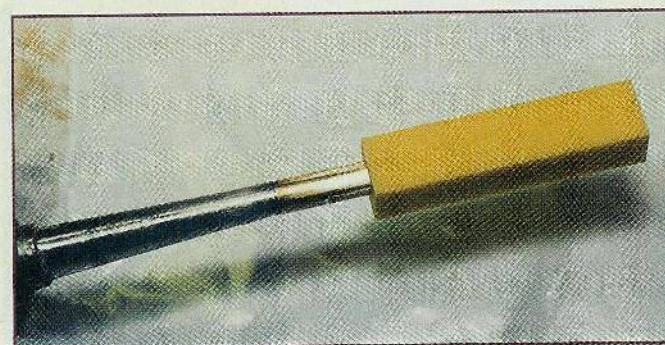
continued on page 32



Step 11. Some examples of "blow out." A "blow out" can be caused by heat, not relieving the material from your drilling hole often enough, or by not using water. So, take your time here!



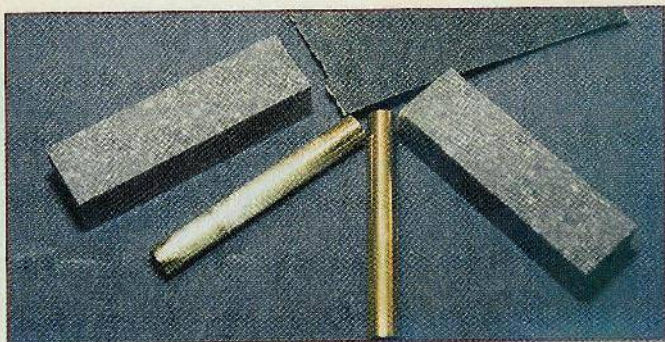
Step 13. Pour some Super 'T' CA glue onto arecycled piece of plastic.



Step 15. Now, take the tube with the glue on it and insert it into the material that you will turn. Put it in one side, remove it, put more glue on it, then insert it into the other side of the material. This is done to ensure that the glue is spread uniformly throughout the entire length of the tube.



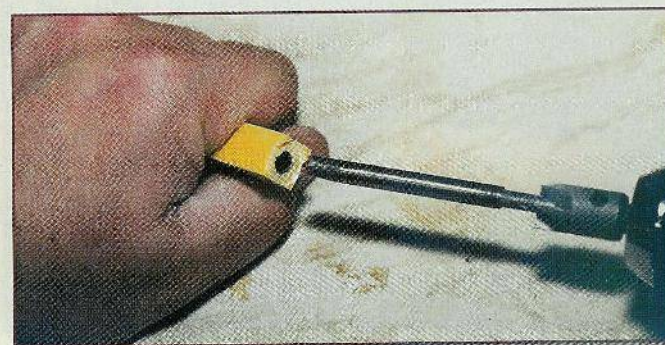
Step 17. Use a 3/4" roughing gouge, a heavy scraper or any tool that will round the material.



Step 12. Once the material is drilled out, rough sand the outside of the brass tubes. This is done to make the Super 'T' CA glue adhere better to the material you will be turning.



Step 14. Take a pen tube insertion tool (a pencil will work just as well) and smear the Super 'T' CA glue all over the scratched up brass tube.



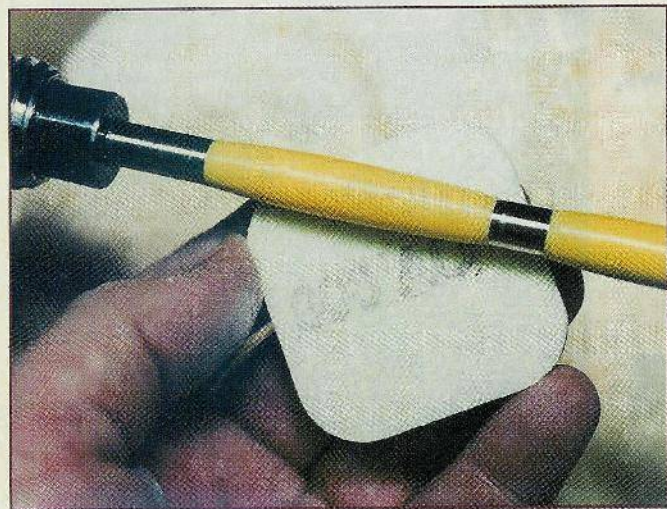
Step 16. Once the glue has dried, take a barrel trimmer and square the ends of the material so it will seat properly against the bushings on your mandrel.



Step 18. Remove material a little at a time, being careful not to dig in with your tool too much or you will split the material.

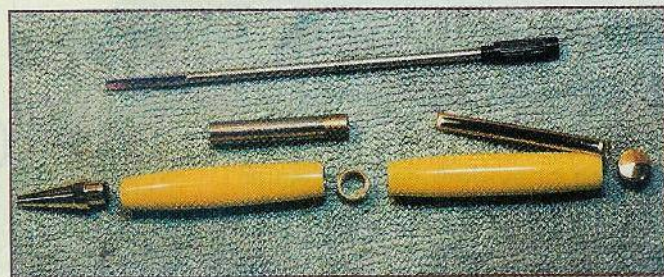


Step 19. Once the material is rounded, use a 1/2" skew chisel to give your pen some shape.

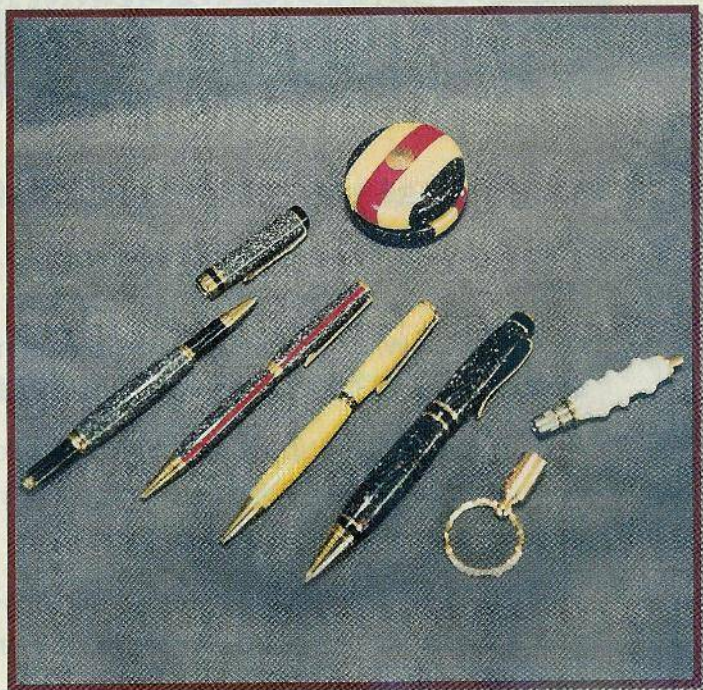


Step 20. Once the pen is shaped, the sanding begins. Use 2" x 2" cushioned aluminum oxide pads that are specially designed for solid surface and acrylic material. Start by dry sanding with the 300 or 600 aluminum oxide pads depending on how deep your scratches are from turning, then go to 800 and 1500 dry. Make sure to wipe the dust off your pen between each grit. If you do not clean the dust off each time you sand, you will put scratches back into your work.

When you proceed to the 2400 grit level, use this pad wet. Just put a few drops of water on the pad and then let the lathe do all the work. Place a towel on top of the lathe bed so you do not get any water onto the lathe. Proceed to the 4000 and 12000 grit pads using a few drops of water on each pad. After this, your project will be very shiny; however, if you choose to buff it with some wax or HUT polish, do so at this time. It will then be ready for assembly.



Step 21. Take your finished pen parts and line them up so you know the proper orientation for final assembly. Put the pen together as per the instructions in the pen kit.



Here are a few examples of other pens and a yo-yo made with Corian® and other solid surface material.

ORDER DIRECT FROM "MR. SOLID SURFACE": SPECIALIZED SCROLL SAW BLADES FOR CUTTING CORIAN® AND HARDWOODS!



In order to achieve the smoothest cut possible, the following special Corian imported skip tooth blades are recommended. All blades listed below are 5" in length and are flat ended only. The blades listed below are \$4.95.

Order Number	Material Thickness	Teeth Per Inch	Blade Width	Blade Thickness
PCBGB 2	Up to 1/8" Corian	23	.028	.013
PCBGB 4	Up to 1/4" Corian	16	.035	.014
PCBGB 7	Up to 1/2" Corian	14	.045	.018
PCBGB 9	Up to 1" Corian	14	.053	.019



ASK US ABOUT OUR KITS FOR CREATING BEAUTIFUL CORIAN "SCULPTURES"!

BG Artforms, 2189 Philip Dr., Bensalem, PA 19020

Phone: 888-717-4202 Fax: 215-244-9709

www.bgartforms.com

Shipping charges: Add \$1.50 per blade order.

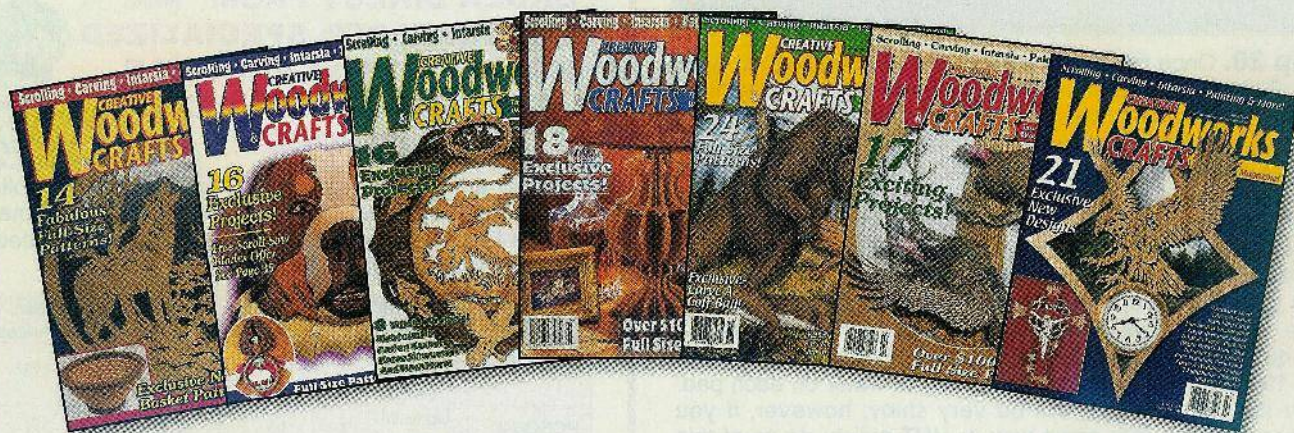
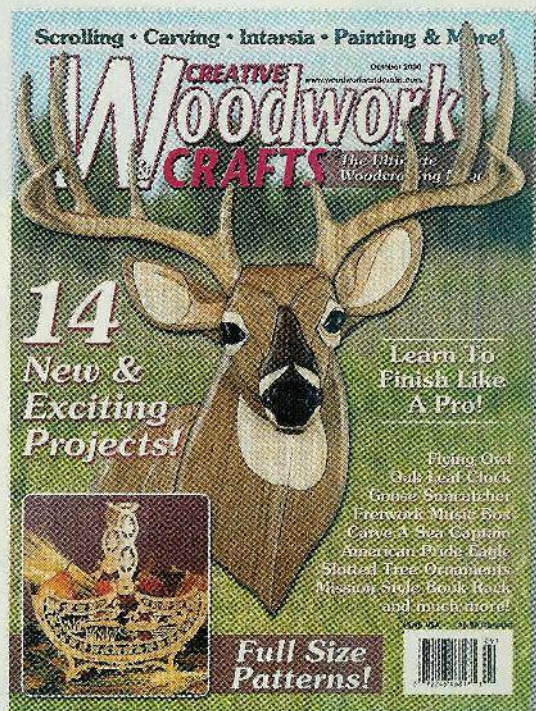
Visa & MasterCard Accepted

Subscribe To Creative Woodworks & Crafts and Save 40% Off The Cover Price!

Here's what you get for only \$24.87*:

- * One full year (seven issues) of *Creative Woodworks & Crafts* magazine. That's at least 120 new, exclusive full size patterns **worth over \$700 purchased individually!**
- * An inexhaustible supply of fresh ideas for items to be made as gifts, sold at craft shows, or for your own personal pleasure!
- * Tips and techniques from the pros to help you work smarter and safer, with better results!

One Year/7 issues, \$24.87 (U.S. funds)*



AMAZING VALUE: A one year subscription to this extraordinary publication gets you over \$700 worth of full size patterns!

To subscribe: use the handy postage-paid card provided, or mail your \$24.87/U.S. payment to *Creative Woodworks & Crafts*, P.O. Box 518, Mt. Morris, IL 61054-7991.

*Canadian orders \$31.87, Foreign orders \$35.37. All orders in U.S. funds only, please.



The Pontiac Picnic 2000 Mini Clock No. 1

by Dan and Raymond Wilckens of Wilckens Woodworking

Patterns
Located in
Full Size Pattern
Section No. 1!



SUPPLIES

Wood: *hardwood of choice*—one piece $\frac{1}{2}$ " x $8\frac{1}{2}$ " x $8\frac{3}{4}$ " (for the upright), one piece $\frac{1}{4}$ " x 2" x 2" (for the pendulum ring); *contrasting wood of choice*—one piece $\frac{1}{2}$ " x $2\frac{1}{2}$ " x $9\frac{1}{4}$ " (for the base)

Tools: scroll saw with assorted blades; drill with bits including a $1\frac{3}{8}$ "-Dia. Forstner bit

Temporary-bond spray adhesive

Sandpaper, assorted grits

Wood glue

Finish of choice

$1\frac{7}{16}$ "-Dia. mini clock insert*

Mini pendulum drive unit No. 2820*

*Available from Wildwood Designs, Dept. CWA, P.O. Box 676, Richland Center, WI 53581, 1-800-470-9090; or visit their website at www.scrollsawing.com.

INSTRUCTIONS

Adhere the patterns to the appropriate stock using spray adhesive. Bore the $1\frac{3}{8}$ "-Dia. hole for the clock movement in both the upright and the pendulum ring. Bore blade entry holes and make all remaining cuts, beginning with the inside and working toward the perimeter. Remove patterns and sand all pieces smooth.

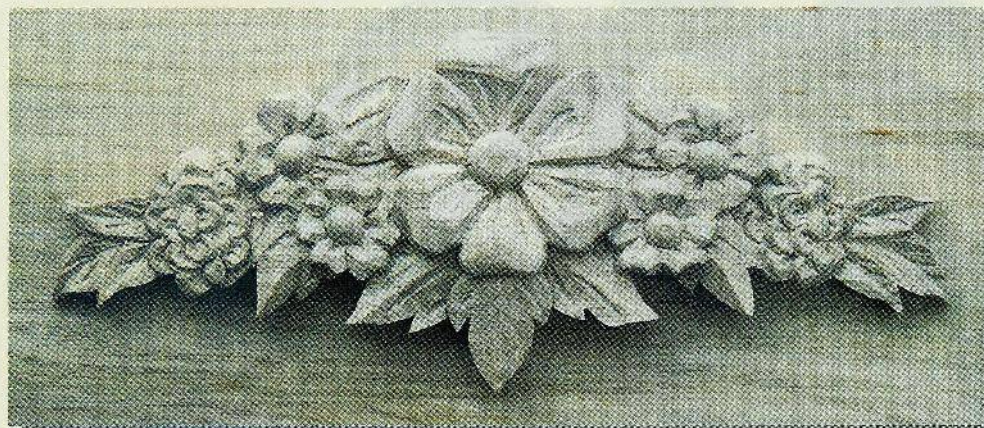
Glue the pendulum ring to the rear of the clock opening in the upright. Glue the upright in place on the base as indicated on the pattern. Apply finish of choice, insert clock movement, attach pendulum, and enjoy!





by Ivan Whillock

Floral Array



SUPPLIES

Wood: butternut—one piece
1" x 4" x 10"

Tools: band saw or scroll saw;
Nos. 3-4mm, 4-12mm,
5-6mm, 5-30mm, 7-12mm,
7-20mm, 8-10mm, and
9-16mm gouges; No. 11-
3mm veiner

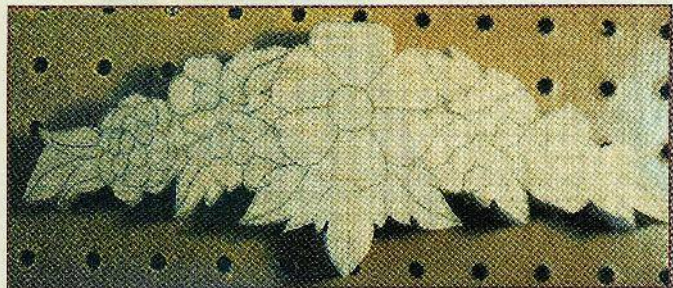
Graphite paper and Stylus
Pegboard
Clamps
Two 1" wood screws

INSTRUCTIONS

Introduction

A cluster of flowers makes a good decoration for a variety of projects. Flower forms are also fun to carve because you can accomplish much interest with simple plunge and slice cuts.

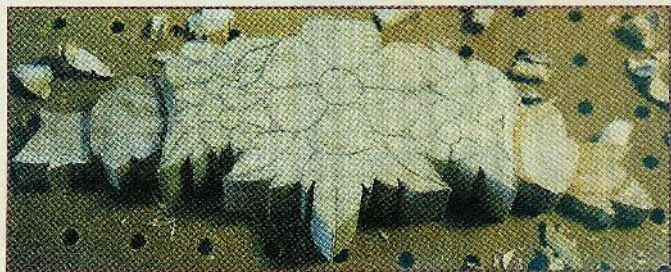
Use the flower cluster to decorate another project or hang it on the wall for a unique room accent.



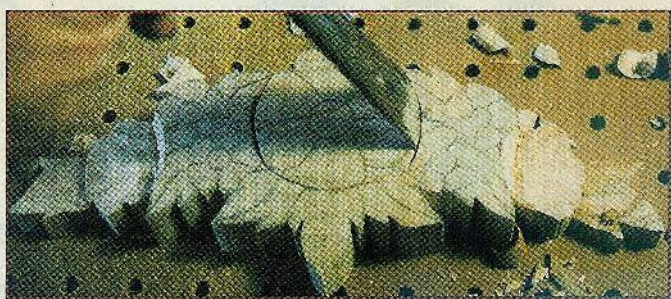
Step 1. Trace the pattern onto the wood. Use a scroll or band saw to cut out the pattern. Mount the cutout onto the pegboard with shallow screws. Clamp the pegboard to your carving bench.



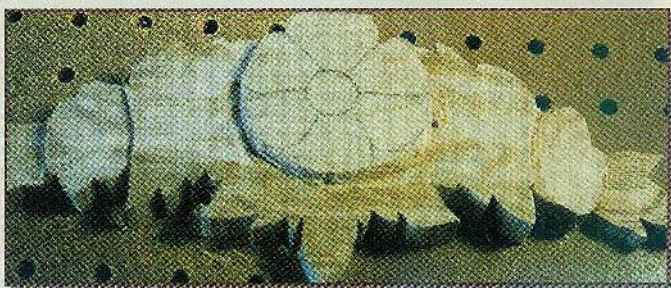
Step 2. Begin layering the carving by starting with the lowest element and working up to the highest. The three end leaves are the lowest and the large center flower is the highest. Drop the end leaves about two thirds of the way down into the wood. Take the wood down gradually. You can split the wood with stop cuts that are too deep.



Step 3. Move layer by layer from the outside to the center.



Step 4. Use the No. 7-20mm gouge to make a stop cut around the center flower. Tilt the tool so that you do not undercut the flower. Lower the wood around the flower so that you have a series of steps to the main flower.



Step 5. Here you have the layering done. Notice the gradual step up from the lowest element to the highest. The center flower is the only element that is the full thickness of the wood.



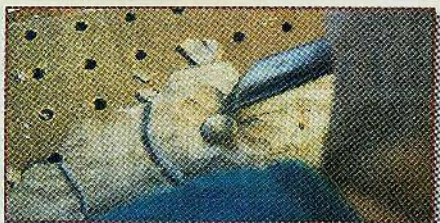
Step 6. The shape of the carving tool will create the rounded flower centers for you. Plunge cuts with the No. 8-10mm gouge are used to form the center of the large flower. Again, the tool is slanted to keep from undercutting the form. Rotate the tool in its own cut to keep the tool in line for each plunge cut.



Step 7. Use the same tool to remove wood around the circle, then turn the same tool upside down to round the button. Work with the grain. Start just before the center and work the tool first right to left and then left to right. The shape of the tool will create the rounding. You may want to practice on scrap wood to get the feel of rounding a button over in two strokes. Try to return the tool to the original stop cut with each pass.



Step 8. Here you see the rounded button and the wood cleared before shaping the petals.



Step 9. Use the No. 5-30mm gouge to make stop cuts for the petals. You can, of course, make multiple cuts with a smaller tool, but I prefer to make the entire cut in a single stroke when possible. That results in clean, sharp cuts.



Step 10. After you have separated the petals, create the notches between them with the veiner.



Step 11. Round the corners of the petals with the No. 7-12mm gouge.



Step 12. Draw in the four small flowers. If you can draw them in freehand that is fine. Otherwise, cut out that section of the pattern and trace the flowers into the space. Try to carve all four of the smaller flowers at once. First, make all of the center stop cuts with the No. 8-10mm gouge. Next, following the steps you used for the large flower, carve each step on all four flowers at the same time. This is much more efficient because when you pick up a tool to do one step you do not set it down until you have done that same step on all of the flowers.



Step 13. Shape the leaves first by layering them and then by putting a high ridge in the center of each leaf.



Step 14. The end flowers are made with the No. 8-10mm gouge. First, a plunge cut is made to define the outer edge of a petal, then an angled cut is made into the plunge cut with the same tool. Each petal, then, is made in two cuts. You will notice that the petals radiate around a single button.



Step 15. Shape the final leaf cluster into three leaves. Angle the center leaf down.

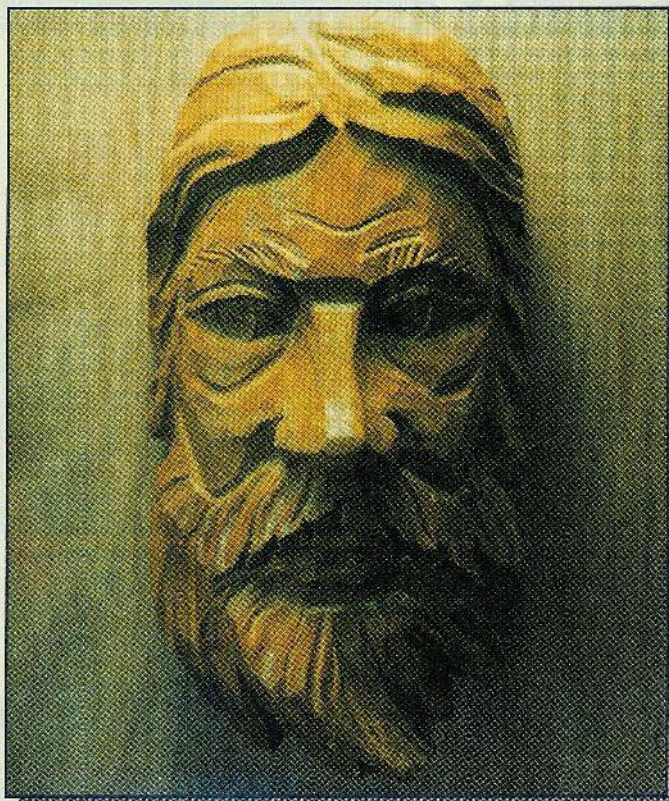


Step 16. Finally, add the finishing touches with the veiner. Add the veins in the leaves and the indentations in the flower petals.



The Sideways Look

by Ivan Whillock



SUPPLIES

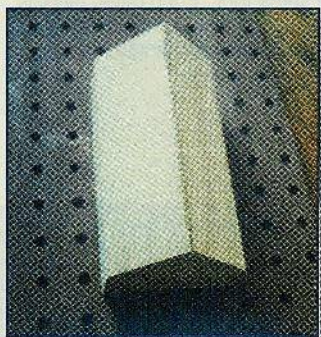
Wood: basswood—one piece 3" x 4" x 6"
Tools: Nos. 3-12mm, 7-8mm, 7-25mm, and 11-6mm
gouges; No. 2-4mm skew chisel; No. 11-3mm veiner;
No. 41-12mm V tool
Pegboard backing
Clamps
Two 1" wood screws
Light oak stain
Paste wax

INSTRUCTIONS

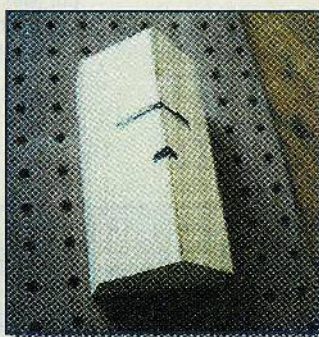
Introduction

It's fun to experiment with different expressions when carving faces. One easy way to create expression is by turning the eyes. This carving shows how that can be done.

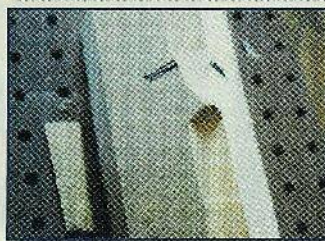
Use your imagination to create a variety of expressions by turning the eyes, shaping the brow, and by adding other details that add character to your face carvings.



Step 1. Saw a 90 degree corner into the basswood block. Attach the block to pegboard with short screws. Clamp the pegboard to the bench to secure the wood as you carve. It's safer and easier to carve when you have both hands free to control the tool.

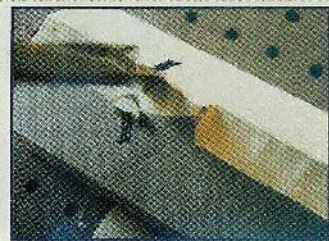


Step 2. Referring to the pattern, draw guide lines for the eyes and for the bottom of the nose.



Step 3. Make stop cuts about 3/4" deep at the guide lines.

Remove wood below the nose all the way to the bottom edge of the block. Make a slanted cut from the tip of the nose to the eye stop cut, then level the cut off and clear the wood for the forehead and hair.



Step 4. With the No. 11-6mm gouge, make plunge stop cuts at the bridge of the nose. Slant the cuts slightly toward the eyes.

These cuts have to be deep enough so that the eye masses face forward.



Step 5. With the same tool, remove wood alongside the nose, from the wings to the corners of the eyes.



Step 6. Use the No. 7-25mm gouge to set in the wings of the nose. Slant the tool away from the nose so you don't undercut the wings.



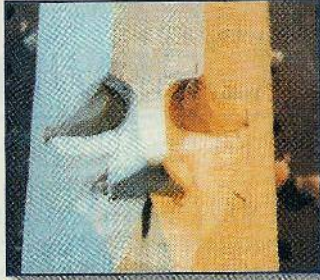
Step 7. Remove wood around the wings of the nose so that about half of the nose is back on the face. Do not, at this time, take wood away from below the nose.



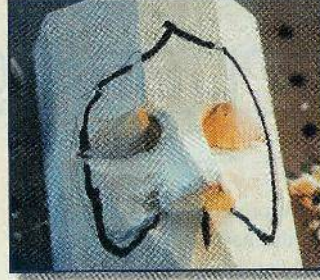
Step 8. Draw a line directly under the nose, in the center of the lower lip. In the following steps, do not carve away this line. Make slanted stop cuts from the line you just made to the wings of the nose. Carve the upper lip so that it slants down from the center to the wings of the nose.



Step 9. Draw guide lines for the bottom of the eyes halfway between the brow and the bottom of the nose.



Step 10. With the No. 3-12mm gouge turned upside down, make eye mounds that extend from the brow to the halfway mark you drew in the previous step. Make the masses rounded to reflect the shape of the eyeball. The inside corner should be hidden when the eye is viewed in profile.



Step 11. Draw the border of the hair and mustache.



Step 12. With the V tool, make a stop cut around that line and lower the forehead and cheeks to separate the face from the hair.



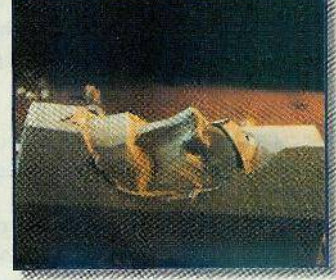
Step 13. With the No. 3-12mm gouge, make stop cuts for the lower edge of the mustache. Remove at least 1/8" of wood below the mustache.



Step 14. Sketch in the bottom edge of the lower lip. Make a cut around the lower lip with the No. 11-6mm gouge. Make a stop cut separating the upper and lower lips. Carve the lip masses.



Step 15. Use the No. 7-8mm gouge to cut the nostrils.



Step 16. Here is the profile of the face so far.



Step 17. Use the No. 3-12mm gouge to cut in the eyelids. Slant the tool into the eye so you do not undercut the lids. Use the same tool to remove a bit of wood from the eyeball to make it lower than the lids.



Step 18. Use the skew to smooth out the eyeball and clean out the corners. Also, use the skew to carve in the tear ducts.



Step 19. Make gouge cuts under the eyes to form "bags."



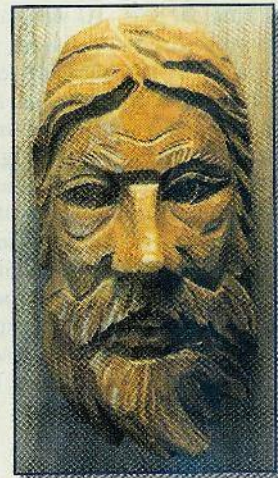
Step 20. Put wrinkles into the forehead. Draw the pupils off to one side to give the face expression.



Step 21. Use the No. 7-8mm gouge to carve the circle for the iris. Lower the iris wood slightly to create a shadow. Carve in the pupils with the veiner. Use the V tool to create eyebrow texture.



Step 22. Use several gouges to create hair and beard texture. Start by shaping the mass with large gouges and then add middle detail with a smaller gouge, and finally add a few smaller details with the veiner. Try to put movement into the hair and beard detail. Avoid straight lines.



Step 23. Stain with light oak stain. When dry, apply a paste wax to give the carving a soft sheen.



Sharpening Carving Tools

by Ivan Whillock

Most carvers know that sharp tools are more efficient and safer than dull tools. Many beginners find that the hardest job in carving is sharpening tools. Unfortunately, a tool that is considered sharp by a beginner might seem quite dull to a professional carver.

Years ago, it was uncommon to buy factory honed carving tools. They were ground to an extent, but much work was left for the carver to do. Most carvers bought a new tool and worked the edge to their preference. These days, more and more carving tools are sold factory honed, nearly ready to go. At that, most trained carvers will regrind them or at least "touch them up," putting the exact edge on them that they prefer. Even in these days when factory honed tools are readily available, it is a good idea for carvers to be able to sharpen tools from scratch. Besides, through use or mishap, even carefully ground tools may have to be reground.

Some Basics

Because I use the traditional two-handed style of wood carving, I grind my tools to a 20 to 25 degree angle (see Fig. 1). It is also important to keep the bevel flat. Holding the tool square against a grinding wheel creates a hollow grind (see Fig. 2). There are two ways to diminish the hollow grinding. One is to move the tool up and down on the wheel to cover the entire bevel. The other is to hold the tool at a slight angle to the wheel (see Fig. 3). Thus, the flat side to side dimension of the wheel minimizes hollow grinding. While the tool is being ground, it is rotated side to side to cover the entire bevel of the tool. Also, whenever the tool feels slightly hot it is dipped in water. High carbon steel, great for holding an edge, cannot take heat. If the steel turns blue, the temper is gone and the edge must be reground.

Of course it isn't necessary to use a machine for sharpening (see Fig. 4). Many professional carvers I know do all their honing by hand on stones. (The hobby carvers are the ones who have the fancy sharpening machines!) When using a stone, move the tool side to side, freezing your wrist into the proper angle for the degree of bevel you desire. Along with the side to side motion of your arm, also rotate the tool to cover the entire bevel. Putting your finger on the end will help you feel whether the full bevel is against the stone. You will soon get the feel for the proper angle. Check your progress often to make sure you are grinding evenly throughout the whole bevel. Return the tool to the stone each time at the exact angle so that you grind a single flat angle on the tool. While you can do all of your grinding on a single fine stone, it is much faster to have two or three stones of different grits. As we discussed in an earlier column, there are many choices for stones: oil, water, diamond, ceramic. I like a coarse stone for the first stages of shaping, a medium to clean up the coarse stone marks, and a fine Arkansas stone to begin the polishing. Final honing is done with a strop.

Treat the V tool like three tools (see Fig. 5). Sharpen the sides like a chisel. Move it side to side on the stone with your wrist frozen into the angle you desire. Unlike with the gouge, you do not rotate your wrist. Turn the tool over from time to time and work the same angle on the other side. Be very careful in keeping the outside bevel parallel to the inside plane of the tool. This is the biggest challenge in sharpening a V tool. Now sharpen the bottom of the V as if it were a gouge, rotating it as you move it side to side on the stone (see Fig. 6). It is very important that the bottom angle of the V tool is about the same degree as the sides. Also, inspect the inside

of the V tool. If the bottom of the V is slightly rounded—as is the case with most larger V tools, then the outside shape must be rounded to match. A protruding tip at the bottom of the V indicates the outside grinding does not match the inside shape of the tool. An indentation on the side near the bottom indicates that the outside grinding is not parallel to the inside plane of the tool.

The Wire Edge

When grinding the edge of a tool, most of the steel turns into filings. When the steel is very fine, instead of being ground away it bends away from the stone. This is called the burr or the wire edge. The presence of a wire edge indicates that you have ground past the previous edge. This is the signal that most carvers use to indicate that they have ground enough steel away. In the proper light you can see the wire edge, and you can also feel it if you pull your finger across the surface opposite the side you were grinding on. The wire edge is removed by running a slip stone on the inside of the tool (see Fig. 7). A variety of shapes are available to match the shape of the tools. You can also remove the wire edge with a piece of hardwood cut to the inside shape of your tool. Put a little honing compound on it and draw it parallel to the inside surface.

Many sharpening machines have cloth wheels that are used to remove the wire edge (see Fig. 8). Because they are flexible, they shape themselves to the tool. **Caution:** also because the cloth wheel is flexible it wraps itself around the edge. Too much polishing on the cloth wheel will round the bevel, which changes the cutting angle of the tool. If you use a machine, use the cloth wheel very judiciously.

Final Honing

After the tool is ground to shape, it must be polished. This cuts down resistance and removes any remnant of a burr. This is usually done on a strop, or a wheel of leather or rubber composition. Usually the strop is loaded with honing powder or paste. Pull the tool along the strop, the cutting edge following. Take care to keep the bevel flat on the strop so that it is not inadvertently rounded either at the heel or the tip.

Like the barber who strops the razor before and during a shave, wood carvers strop their tools often. Experienced carvers are usually able to keep a tool in service for a long time—often years without having to regrind them. They use their tools carefully, keep them stropped, and the edge lasts a very long time. (Inexperienced carvers who twist and pry with their tools—and often "cheat up" while honing their tools—have to regrind them often.)

Test the sharpness of your tools by cutting cross grain in soft wood. If the wood shines under the cut, the tool is sharp. If the cut is fuzzy, keep working on it. The proper bevel is on the tool if, held in the traditional two-handed posture, the tool cuts immediately upon touching the wood.

Sharpening is a learnable skill. A surprising number of beginning carvers are impatient when it comes to learning to sharpen. They want to "get carving" and consider the time spent sharpening as a delay. I encourage new carvers, instead, to take pride in the sharpness of their tools—to embrace the art of sharpening with the same energy that they have for carving itself. You'll never become a "master carver" without first becoming a "master sharpener"! 



Fig. 1. It is important to get the right bevel on your carving tools. I grind my tools to a 20 to 25 degree angle.



Fig. 2. Try to avoid a hollow ground bevel which will result by holding the tool square with the wheel.



Fig. 3. One way to avoid a hollow grind is to hold the tool at a slight angle.



Fig. 4. Many professional carvers prefer to do their honing by hand on stones.



Fig. 5. Because of its shape, the V tool should be treated like three tools.



Fig. 6. Shape the bottom of the V as if it were a gouge.



Fig. 7. Remove the wire edge by running a slip stone on the inside of the tool.



Fig. 8. Many sharpening machines have cloth wheels that are used to remove the wire edge.



Five Robins Clock

by Stephen M. Ripski of Rip N' Woodworks

Patterns
Located in
Full Size Pattern
Section No. 2!



SUPPLIES

Wood: oak plywood—one piece 1/8" x 12" x 12" (for the pattern pieces); walnut—one piece 1" x 10" x 14" (for the clock base)

Tools: scroll saw with Nos. 5 and 7 blades; drill with 1/16" and 3/8"-Dia. bits and a 3-1/8"-Dia. Forstner bit

Temporary-bond spray adhesive

Sandpaper, assorted grits

Wood glue

Danish oil finish

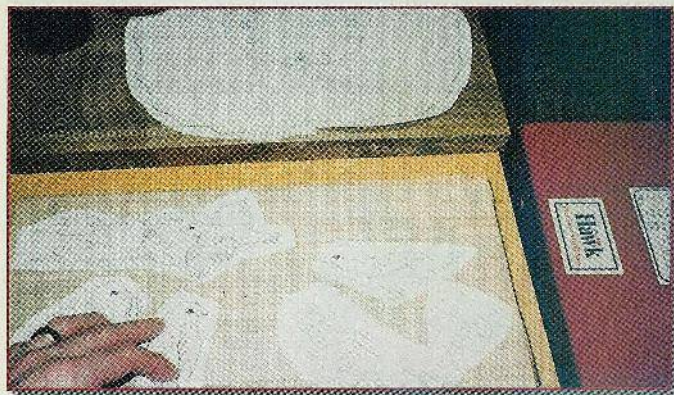
Small paintbrush

Spray polyurethane, gloss finish

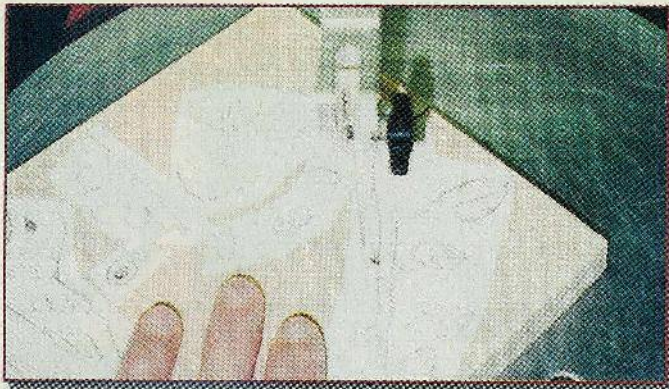
Sawtooth hanger

Quartz clock movement of choice

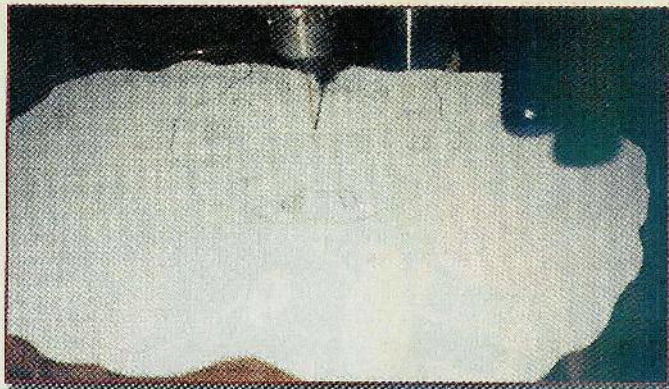
INSTRUCTIONS



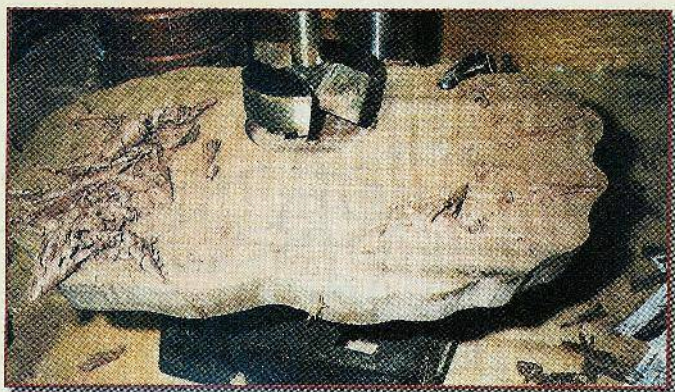
Step 1. Transfer the patterns to the selected stock with spray adhesive. Make sure that the grain is running from left to right. **Note:** multiples of the pattern pieces can be stack cut. You can stack up to eight pieces of wood; however, I prefer to stack just six. This makes it a bit easier and faster to cut. Hold the plywood together with masking tape or duct tape while you cut the pieces.



Step 2. Cut out the pattern pieces, including the spacers, using the scroll saw and No. 5 blade. **Note:** if you are stack cutting and your stock is more than 1/2" thick, I recommend using a No. 7 blade. Once cut, glue the spacers on the backs of those pieces that require them.



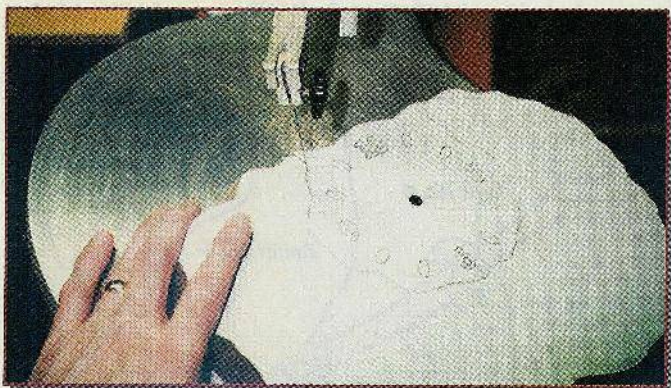
Step 3. Select a darker wood for the base of your clock. I used walnut, but cherry or even oak stained a dark color will work just as well. Transfer the pattern for the clock base with spray adhesive. Using the No. 7 blade, tilt your saw table 25 degrees to the right and cut around the perimeter of the pattern in a clockwise direction. Before you cut out the section which will receive the clock mechanism, bore a 1/16"-Dia. starter hole in the middle of the clock area on the center indicated on the pattern.



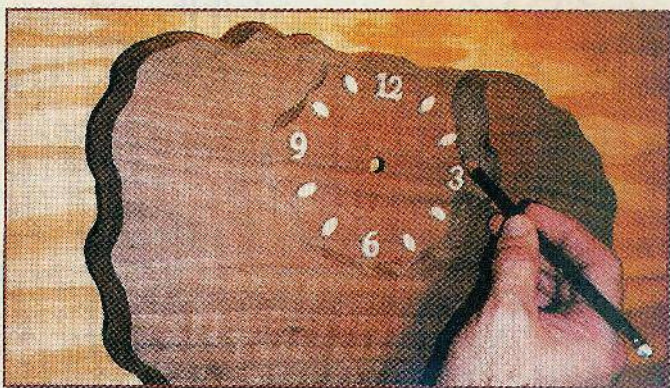
Step 4. Flip the wood over and bore out the space for the clock using a 3-1/8"-Dia. Forstner bit. The depth of this hole is determined by the size of the shaft on your clock mechanism. You will need to work carefully here as the wood may wind up being very thin once you're done (perhaps 1/8" or less). Basically, you only want enough room for the clock casing in the back to be slightly recessed. The clock shaft should protrude out the front just enough to be secured with a nut.



Step 5. Flip the clock base back over and bore a 3/8"-Dia. hole through from the front, using the previously drilled 1/16"-Dia. starter hole as the center. This new measurement will allow enough room for the clock shaft.



Step 6. Now you can go ahead and cut out the small clock base. Start cutting on the left and continue clockwise.



Step 7. Set the clock face pieces in place on the small clock base and lightly trace where you will glue the larger clock base piece on top of the smaller one. Glue these pieces in place, then, referring to the **Assembly Drawing**, glue the remaining pattern pieces to the clock base. Once you have glued all the pieces onto the walnut base, you can attach a hanger to the back of the smaller base.

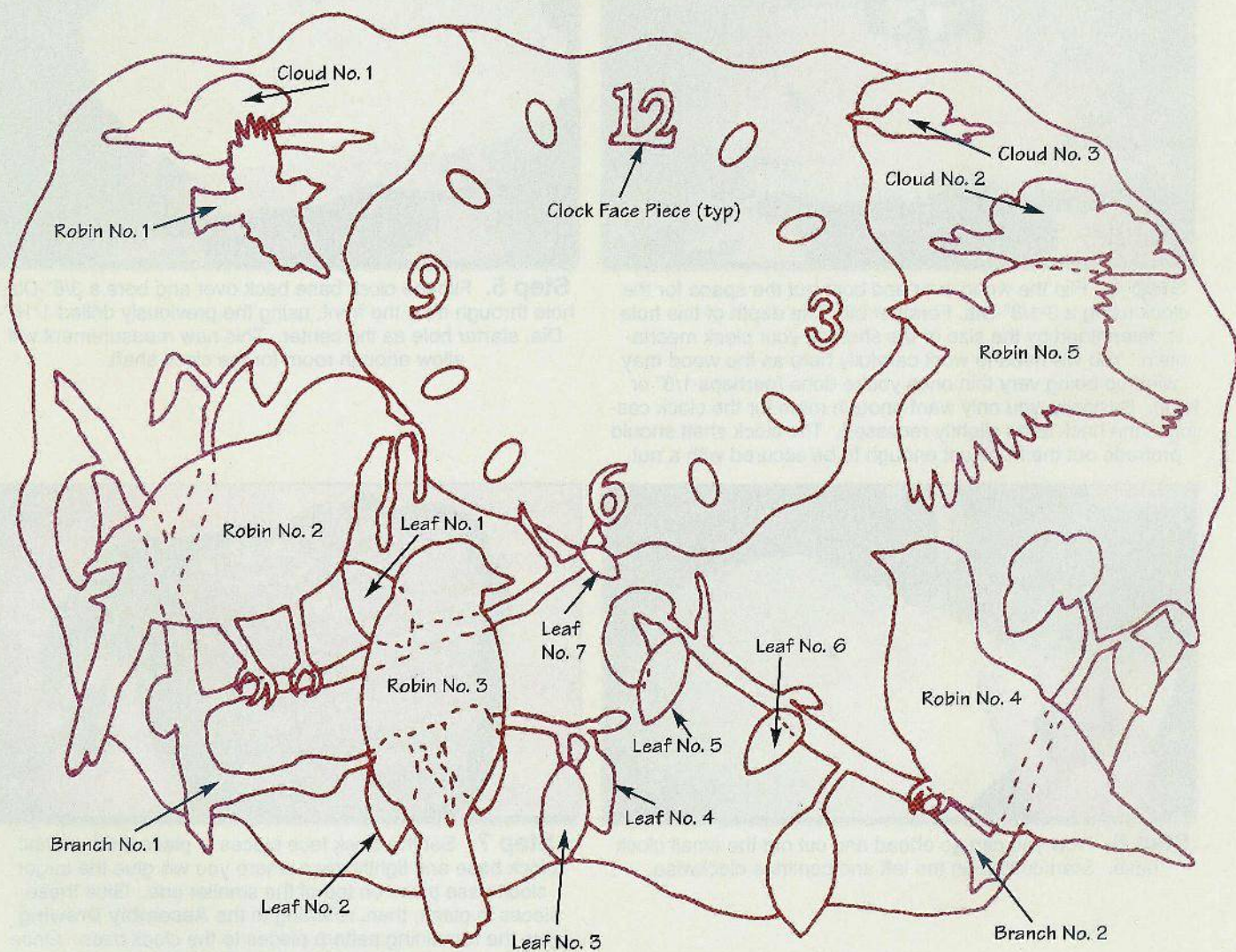


Step 8. Apply a finish. I prefer Danish oil. Once that has dried, spray a couple of coats of polyurethane gloss finish on the project and allow to dry thoroughly.



Step 9. Install the clock mechanism. Attach your clock from the back, put on the hands, and hang on your wall.

Assembly Drawing
Showing placement of pattern pieces





WES' WORKSHOP

Subject: lighting a new design

Sometimes we learn more from our failures than our successes.

by Wes Demarest

It looked good on paper...

One of the most effective methods of accenting a scrolled piece is the addition of a light box behind fretwork. There are a number of patterns that incorporate lighting, and the hardware is easy enough to find. Perhaps you even built the lamp in the June 2000 issue of *Creative Woodworks and Crafts* and read my previous column on the electrical code that governs the rules for their proper construction.

I have been busy developing a new pattern that was inspired by our Editorial Director, Robert Becker, and designed by Dirk Boelman. The original concept was to backlight the project, employing the use of a light coloring medium to further enhance the design. That seemed simple enough as we discussed it, and we had a number of lighting methods in mind as the final appearance was visualized.

Visualizing is one thing, actually accomplishing the desired effect turned out to be quite another. The lighting concept proved to be extremely challenging and, subsequently, was dropped from the project. Now let me explain why.

Reality sets in

My first mistake was not to read the code and refresh my memory as to the nitty gritty of the standard. So I started out with a box which was 1-1/2" deep and installed a set of battery-powered Christmas tree lights behind stained glass. Good idea, but there were too many hot spots, so we tried a string of wheat lights. These also produced hot spots—not as hot, but distracting just the same, so we tried two candelabra bulbs behind solid sections of the design. That didn't look too bad, so we left them on for a burn time test. After about 12 minutes, the stained glass cracked in an arc around the lower bulb. That was a heartbreaker as the glass is handmade and tends to be rather expensive. After that setback, I went to the code book and learned that incandescent bulbs with a wattage from 0 to 25 watts must have a clearance of 2" on all sides of the bulb and 2-1/2" from the top (or bottom if mounted upside down).

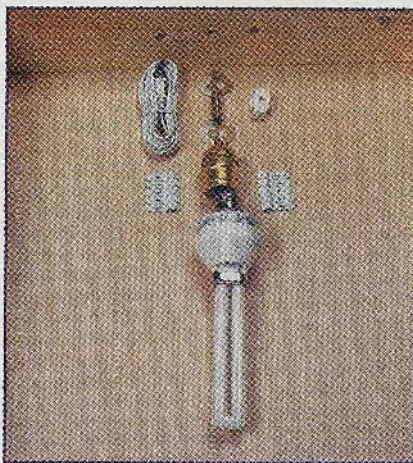
More options

Well, the 1-1/2" box went right out the window. So we built a box 4" deep and started over again. The battery-powered bulbs did not have enough power. Besides, we didn't really like the quality of the switches anyway; they are equipped with a knife switch and it bends very easily and will not hold up.

We briefly considered mini pancake halogen fixtures, but soon rejected them because they are extremely hot, especially in this type of enclosure. We visited several lighting stores



Some of the hardware we tried in our attempt at lighting a design.



Best compromise so far, a fluorescent bulb which screws into an incandescent socket.



A few of the light modification materials we tried. Notice the break in the stained glass (at the top of the picture) caused by the heat of the candelabra bulb.

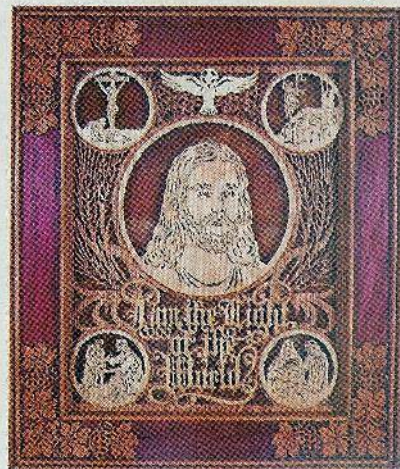
and checked for a suitable fluorescent fixture. Unfortunately, most merchants do not allow testing of the product with a return policy if things do not work out, so now we have material for a new project.

I was explaining our plight to the manager of our local *True Value* hardware store, and he lead us to a fluorescent bulb that screws into a standard light fixture, gives off very little heat, has good light dispersion, and is economical to use. Needless to say, haste was made back to the shop. We rewired the assembly, plugged it in and, just like he said, it was good. It's just that it was too bright, but at least we were on the right track. It seemed all we had to do was tone down the light.

One last attempt

Back we went to the hardware store and picked up two different sheets of acrylic light-diffusion material. I cut and installed them, but it was still not good enough. Then we changed the bulb from a 9 watt to a 5 watt. This was even better, but still not quite right. There are several paint companies who make a frosted paint for use on glass, and sure enough the same store had *Krylon's* version. The photo does not show the effect it has on the transmission of light; however, it does the job it is supposed to do. But even when coupled with the acrylic sheets, the light still was not what we were looking for.

On top of all that, the size of the light box did not have the right visual appeal when hung on the wall, so we dropped the entire concept for this project. Now that we know what does not work, we are ahead for the next project. If you are tempted to develop a light box for one of your projects, keep the above information in mind and don't forget to use the Underwriter's knot in all sockets.



The project relating to this feature, "Light of the World," is shown above, and will be available for sale this summer.

NASCAR Shelf

by Bobby Redd



INSTRUCTIONS

Make the shelf assembly

Cut the shelf to size and bore the 1/4"-Dia. x 3/8" deep holes in the upper and lower surfaces which will receive the dowels (see the **Plan Views of Shelf** drawing). Rout a decorative profile on the lower edge of the shelf. Sand the piece as necessary. Cut the wooden squares to 1-1/2" x 1-1/2" and paint them black. Referring to the drawing, glue the small mirrored and wooden squares to the upper surface of the shelf with epoxy.

Transfer the bracket pattern onto two pieces of 3/4" oak plywood and cut them to shape with the scroll saw. Bore two 1/4"-Dia. x 1" deep holes on the top edge of the brackets as indicated on the pattern. Sand the brackets.

Select the desired numerals from the pattern section and enlarge as necessary to fit on the brackets. Transfer the numerals to 1/4" Baltic birch plywood and the letters "NASCAR" to a piece of 3/4" oak plywood. Using the scroll saw, cut four of the numerals and one each of the letters. Sand as necessary.

Attach the brackets to the lower surface of the shelf with wood glue and dowels (see the **Shelf Assembly Drawing**). Referring to the photograph, glue the numerals in place on the brackets and the letters in place on the lower surface of the shelf.

Make the mirror frame

Transfer the mirror frame pattern to the selected stock and cut to shape. Bore 5/16"-Dia. x 5/8" deep holes in the four ends as indicated. **Note:** If you choose to cut the entire frame as one piece then doweling the holes together is unnecessary. Join the two halves with wood glue and dowels (see the **Mirror Assembly Drawing**). When the glue has set, sand the frame so it is smooth and both the inner and outer arcs are round. Rout the rabbet which will receive the mirror around the inside of the rear surface of the frame. Rout a decorative profile on the outer surface of the frame (both inside and outside edges) as indicated on the pattern. Bore three 1/4"-Dia. x 3/8" deep holes into the lower edge of the frame. These holes will receive the dowels which will join the shelf assembly to the mirror.

Select the letters you will use on the mirror frame, transfer to 1/4" Baltic birch plywood, and cut them to shape. Sand as necessary. Referring to the photograph, glue the letters in place on the frame.

Make the race car

Transfer the race car pattern to the selected wood. You can make your car either a Chevy, Pontiac, or Ford depending upon which front end you choose. Using the scroll saw, cut the car to shape. Sand as necessary. Select the numerals you

continued on page 48

Wood so good you won't want to cut it!

Scroll-PLY

Premium Plywood This "Baltic Birch" plywood is the ultimate plywood for scrollwork or fretwork. All the plies are birch, with no inner voids so the edges finish beautifully. Our Scroll-PLY is always clear and perfect on one face, though the back may have an occasional plug. Just call for special sizes!

1/8" Scroll-Ply	1-20 pieces of same size	20+ pieces of same size
12" x 12"	1.20	.95
12" x 24"	2.40	1.90
24" x 24"	5.00	4.50
1/4" Scroll-Ply		
12" x 12"	1.50	1.25
12" x 24"	3.00	2.50
24" x 24"	6.25	5.50
1/2" Scroll-Ply		
12" x 12"	2.40	1.95
12" x 24"	4.80	3.90
24" x 24"	10.00	9.00

Scrollsaw Blanks

Solid Hardwood!! These are the solid hardwood blanks that have the scroll world talking! Each blank is a clear color matched panel, sanded to thickness. Spend your time scrolling instead of trying to glue and plane wide panels yourself!! Just apply your pattern and start scrolling.

		1/4"	1/2"	3/4"
ASPEN	12"x12"	3.20	4.30	5.10
	12"x16"	4.30	5.70	6.70
POPLAR	12"x20"	5.40	7.20	8.50
ASH	12"x12"	4.20	5.60	6.60
	12"x16"	5.60	7.50	8.80
BASSWOOD	12"x20"	7.00	9.30	10.90
BIRCH	12"x12"	5.20	6.90	8.10
	12"x16"	6.90	9.20	10.80
OAK	12"x20"	8.60	11.50	13.50
BUTTERNUT	12"x12"	6.50	8.70	10.20
	12"x16"	8.70	11.60	13.70
MAPLE	12"x20"	10.90	14.50	17.10
WALNUT	12"x12"	7.90	10.50	12.40
	12"x16"	10.50	14.00	16.50
PURPLEHEART	12"x20"	13.10	17.50	20.60
CHERRY	12"x12"			
	12"x16"			
SATINWOOD	12"x20"			
MAHOAGANY				

Note: Since most of our products are custom made and very popular, there may be a production lead time before your order is shipped, please inquire at time of order.



Insured Freight Charges

Continental U.S. Addresses
Order Value: \$0-\$20.00, add \$5.95
Order Value: \$20.01-\$50.00, add \$7.95
Order Value: \$50.01-\$100.00, add \$9.95
Order Value Over \$100.00, add \$10.95
Alaska, Hawaii, Puerto Rico, Canada, and other International destinations will incur additional freight charges. Call for quote.

Heritage Building Specialties
205 N. Cascade
Fergus Falls, MN 56537-2208

CALL TOLL FREE 1-(800) 524-4184 www.heritagewood.com

PS WOOD MACHINES

HAS MOVED!

COME VISIT US AT OUR NEW SHOWROOM AT 3032 INDUSTRIAL BLVD.,
BETHEL PARK, PA 15102. WE'D LOVE TO MEET YOU! IN CELEBRATION OF OUR NEW
LOCATION WE'RE OFFERING THESE SPECIALS, GOOD THROUGH JULY 15th, 2001!

AT 20% OFF, GARNET HALL'S HOT NEW INTARSIA BOOK JUST GOT HOTTER!

Intarsia "Master" Garnet Hall has really outdone himself with this terrific book. Projects range from beginner to advanced, covering a wide range of subjects, including sports, wildlife, horses, vehicles, holiday designs, and more.

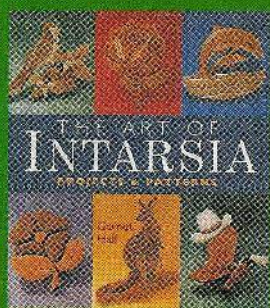
Regularly \$17.95, NOW
ONLY \$14.35!
plus shipping



In Garnet's own words: "I believe you will find this book helpful. I have included all the tips I have picked up over the years to help with fitting and shaping. There is also a section on pricing your work and receiving a 'fair' price."

Book Highlights:

- * An abundance of step-by-step instruction geared toward helping you to create your own beautiful works-in-wood.
- * 20 great projects are featured; 10 are new and exclusive, while the other 10 are "old favorites."
- * All aspects of intarsia are covered: woods, tools, techniques, finishes, and safety.



THE LATEST INNOVATION IN SHAPING AND SANDING... "SANDING ON AIR!"

This great new tool is great for sanding contoured or irregularly-shaped objects. Ideal for intarsia, stylized carving, furniture legs, arm rests, and many more types of projects. The sanding sleeve runs on a cushion of air. Air pressure is easily adjusted with a calibrated inflator, included with the sander.

- * Fits all power carvers with 1/4" collets, including Foremost and Dremel.

- * Rated to run up to 5000 RPM.

- * Will not leave "chatter marks," as hard-rubber sanders do.



- * Inflator is calibrated to give you precise, consistent pressure during each use.

- * You can adjust the pressure without removing the sander from the flexshaft or power sander.

How it works - Sander comes with inflator and three sleeves, 80, 120, and 220 grits. Can be powered with a flex shaft in a drill press, a power carver, or attached to a 3450 RPM motor. It can also be mounted to a stationary hand drill. To remove wood fast, use the 80-grit sleeve and make the sander firm. As you go up in grits, release air, thus causing the sander to conform to your work surface!

Regularly \$35.00, NOW ONLY \$28.00 plus shipping.
Replacement sleeves regularly \$4.95/pack of 3, NOW ONLY \$3.95 plus S&H

SAVE 12% ON GARNET HALL'S INTARSIA PATTERNS!

Shown below is just a small sampling of Garnet's exciting, creative intarsia projects. All \$7.95 patterns are NOW THREE FOR ONLY \$21.00! To see all 122 of Garnet's intarsia patterns, call or write for a free catalog. Don't delay—this offer expires 7-15-01.



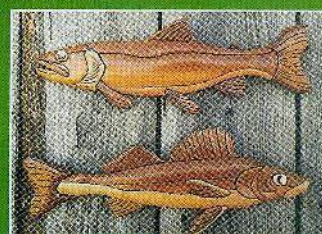
PRAYING
HANDS (No. 60)
58 pcs,
10 1/2" x 17 1/2"
\$7.95



TIGER (No. 74)
194 pcs, 16" x 18" \$7.95



CHRISTMAS FRIENDS (No. 75)
170 pcs, 20" x 17 1/2" \$7.95



WALLEYE & TROUT (No. #86)
Walleye: 17" x 6", Trout: 16 1/2" x 5 1/2" \$7.95



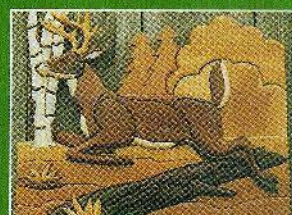
SWAN (No. 93)
63 pcs, 19" x 13" \$7.95



WOLF (No. 107)
47 pcs, 17 1/2" x 13" \$7.95



HUNTIN' DAWGS (No. 110)
142 pcs, 22" x 17" \$7.95



JUMPER (No. 112)
103 pcs, 19" x 17" \$7.95

For more information: (412) 831-5402

Order TOLL FREE: (800) 939-4414

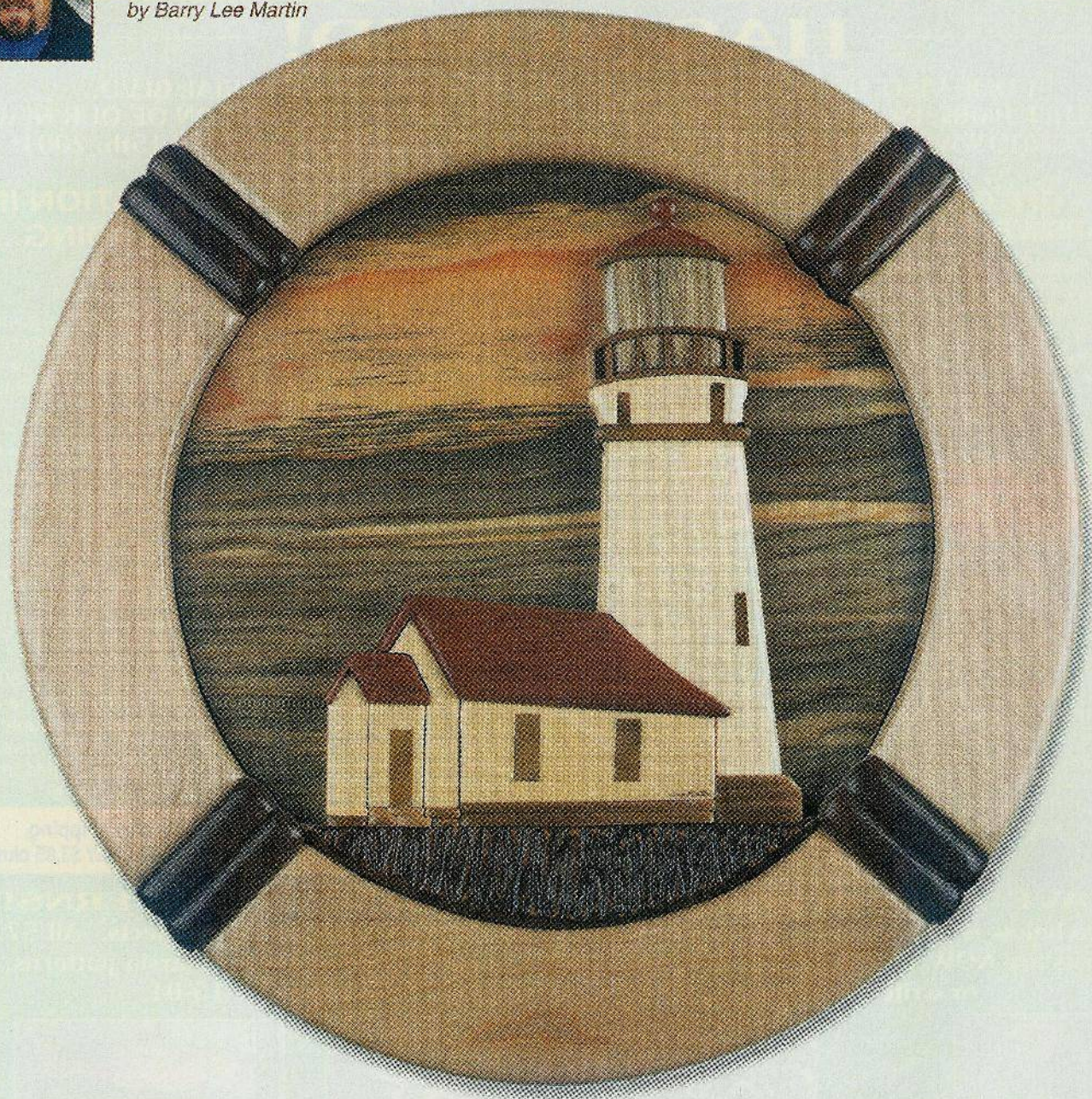
www.pswood.com



Lighthouse

by Barry Lee Martin

Pattern
Located in
Full Size Pattern
Section No. 1!



SUPPLIES

Wood: *blue pine*—one piece $1/2"$ x $10"$ x $10"$; *maple*—one piece $3/4"$ x $3"$ x $19"$; *walnut*—one piece $3/4"$ x $2-1/2"$ x $5"$; *aspen*—one piece $3/4"$ x $3"$ x $12"$; *poplar*—one piece $3/4"$ x $2"$ x $8"$; *brown cedar*—one piece $3/4"$ x $1-1/2"$ x $7"$; *red cedar*—one piece $3/4"$ x $3"$ x $6"$; *Baltic birch plywood*—one piece $1/4"$ x $14"$ x $14"$

Tools: scroll saw with blades; drill with bits; drum sander; flutter wheel

Graphite paper

Pencil or stylus

Wood glue

Clear finish of choice

Sawtooth hanger

INSTRUCTIONS

Carefully trace the outlines of the respective segments onto the selected stock. Saw the pieces to shape, fitting them as you go. Once the pieces have been cut and fit together, shape them with the drum sander. Sand off any marks left by the sanding drum with the flutter wheel. When you are happy with the fit and all the pieces have been adequately shaped, reassemble the pieces on a piece of $1/4"$ Baltic birch and trace around the perimeter of the design. Cut the Baltic birch backer to shape, staying on the inside of the traced line so that it will be slightly smaller than the assembled design.

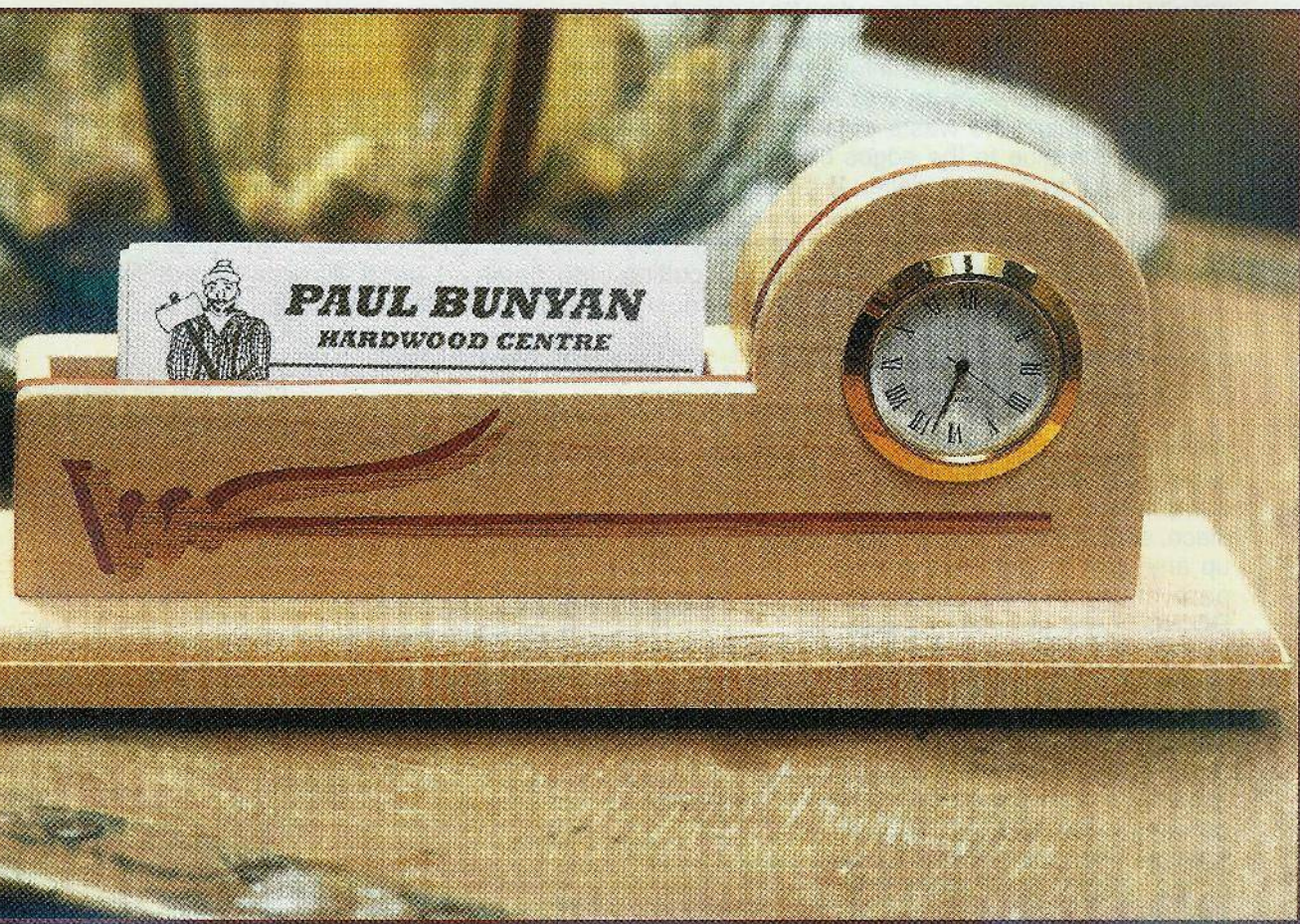
Glue the pieces in place on the backer. When the glue has set, apply clear finish of choice. Add a sawtooth hanger to the back, hang, and enjoy.





Marquetry Series Firefly

by Roy King of The Artistic Inlay Company



SUPPLIES

Wood: * *hard maple*—one piece 1/8" x 4" x 8" (for the upright face piece), two pieces 1/2" x 4" x 8" (for the business card holder piece and the backer), one piece 1/2" x 9" x 12" (for the base); *padauk*—two pieces 1/8" x 4" x 8" (for the upright accent piece and inlay panel No. 1); *mahogany*—one piece 1/8" x 4" x 8" (for inlay panel No. 2)
Tools: scroll saw with No. 2/0 reverse tooth and No. 7 PGT blades; drill with bits (either No. 68, 69, or 70) including a 1-3/8"-Dia. Forstner bit; random orbital sander with 150 grit paper; router and roundover bit

Scissors

Graphite transfer paper

No. 2 pencil

White glue

Glue brush

Masking tape, 3/4" wide

Damp sponge

Straight edge

Waterbased contact adhesive

Minwax Wood-Sheen Natural Rubbing Oil clear finish

Mini clock insert of choice**

*All wood for Firefly is available for \$21.60 prepaid to U.S. addresses from: The Artistic Inlay Company, 9033 S. Nashville, Oak Lawn, IL 60453; (708) 599-5531. Order package No. WP-129.

**Available from Sloans Woodshop, 3453 Callis Road, Lebanon, TN 37090; 1-888-615-9663.

INSTRUCTIONS

Copy the patterns and trim them so that they can be easily centered on the workpiece. Also cut where appropriate on a 45 degree angle across the registration marks. This will aide you when aligning the patterns on the workpiece (see Fig. 1).

Beginning with Plate No. 1, transfer the registration marks to the 1/8" upright face piece (see Fig. 2). **Note:** this is the most important step. The registration marks are guides to help you align all the plates in the pattern accurately. Remove the transfer paper and secure the remaining three sides of the pattern with masking tape.

Cut and assemble

Check the grain direction of the padauk inlay stock (panel No. 1) to be sure it matches up with the pattern, then attach it to the underside of the face piece with masking tape (see Fig. 3). Drill a blade entry hole, then make a bevel cut along the pattern lines. **Note:** for more

continued on page 52

information about bevel and pierce cutting, refer to page 12 of the October 1999 issue of *Creative Woodworks and Crafts*, or better yet check out our website at www.woodworksandcrafts.com where the original sidebar has been reproduced.

After cutting out the first inlay, remove the pattern from the face piece as well as the inlay board itself and discard the waste piece. Apply a light bead of white glue to the edges of the inlay piece and insert it into the face piece. Wipe away excess glue with a slightly damp sponge.

Repeat this procedure with the mahogany inlay piece (panel No. 2) and Plate No. 2. Before cutting the new plate, review the lines to be cut and placement of the pierce cuts. **DO NOT** do any sanding until directed to do so below.

Assembly

After your marquetry work is complete on the upright face piece, sand the rear side to clean up any glue buildup and to prepare the piece for laminating. **DO NOT** sand away the registration marks at this time, they'll be needed in a later step.

Use masking tape to secure all four upright pieces (the upright face piece, the upright accent piece, the business card holder piece, and the backer) together, then attach Plate No. 3 to the upright face piece (see Fig. 4). Using a sharp cutting scroll saw blade (No. 7 PGT), saw around the perimeter of the pattern.

Separate the business card holder piece and measure 1/4" in from both the semi-circle portion and the outer end, then cut out the center portion of the wood (this will become the area where the business cards are held).

Laminate the four upright pieces with waterbased contact adhesive (see Fig. 5). Follow the manufacturer's instructions for using the adhesive. Most adhesives dry in about 10 to 20 minutes. The adhesive must be dry to the touch. When ready, align one panel at a time and bond them together. Once they touch another coated surface you cannot move them, so take your time

in aligning the pieces together.

With pieces sandwiched together, take a large dowel or a J-roller and roll over the top piece to ensure even pressure to all four pieces.

Bore the 1-3/8"-Dia. hole which will receive the clock movement, then use a roundover bit to lightly break the outer edges of the upright. **DO NOT** rout the bottom edge of the upright where it glues to the base.

Cut the base to size. I used a roundover bit to put a profile on the top edges of the base. Finally, center and glue upright to base. Finish with a non-yellowing finish. I used Minwax Wood-Sheen Natural Rubbing Oil clear finish.

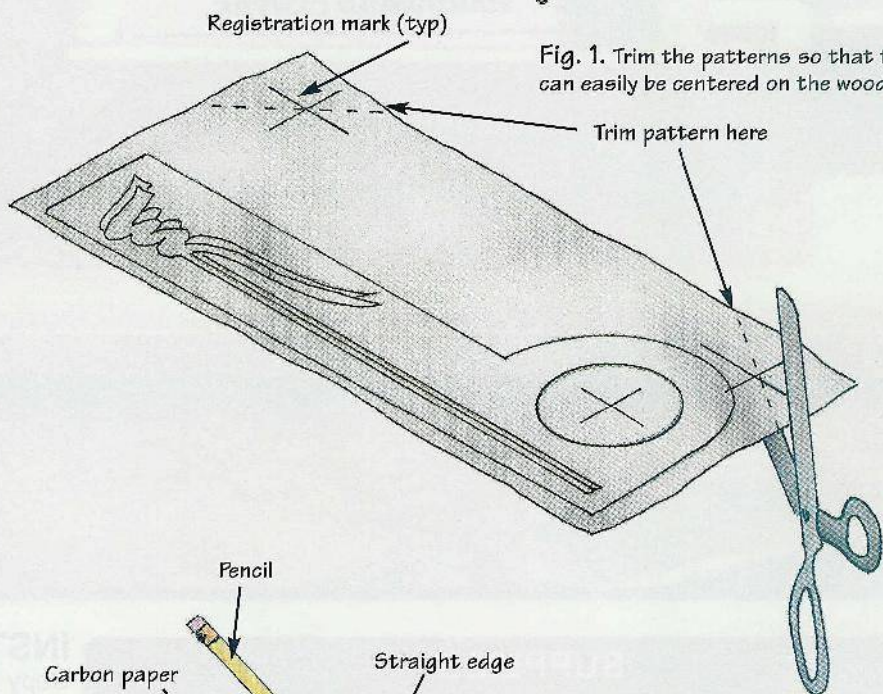


Fig. 1. Trim the patterns so that they can easily be centered on the wood.

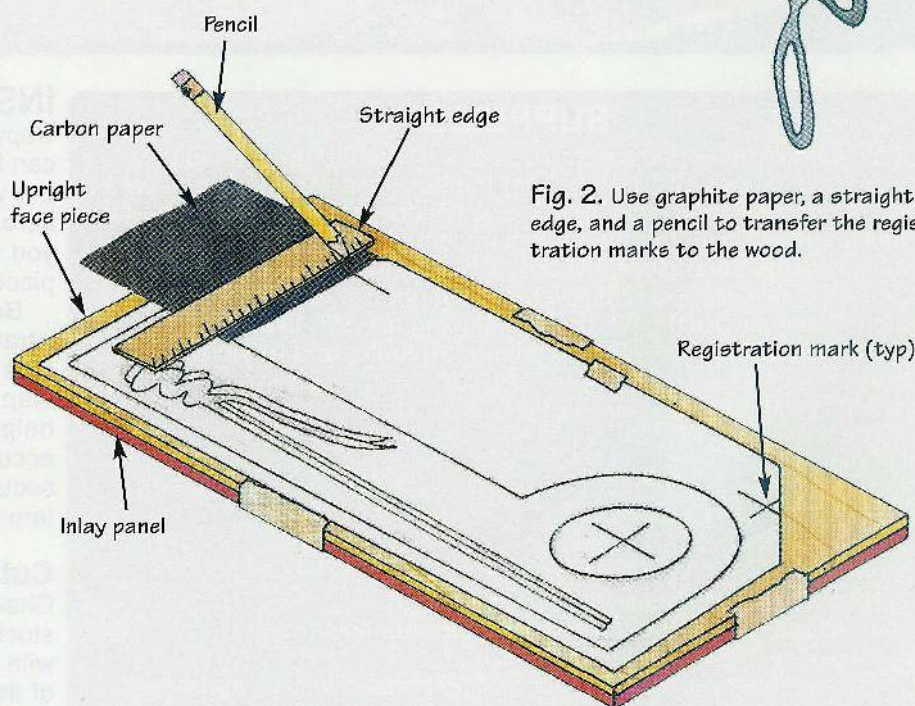


Fig. 2. Use graphite paper, a straight edge, and a pencil to transfer the registration marks to the wood.

Fig. 3. Tape the inlay panel to the underside of the upright face piece, then make the panel cut.

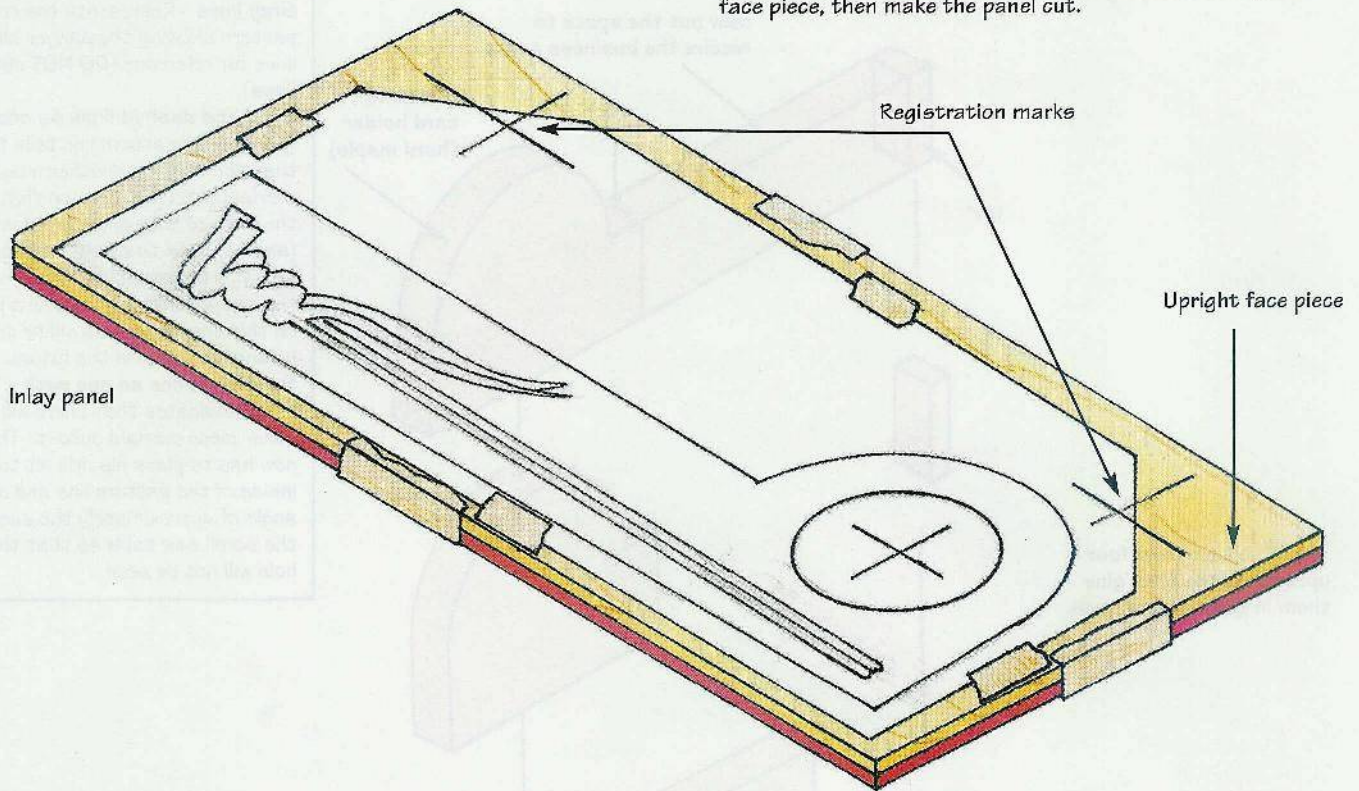
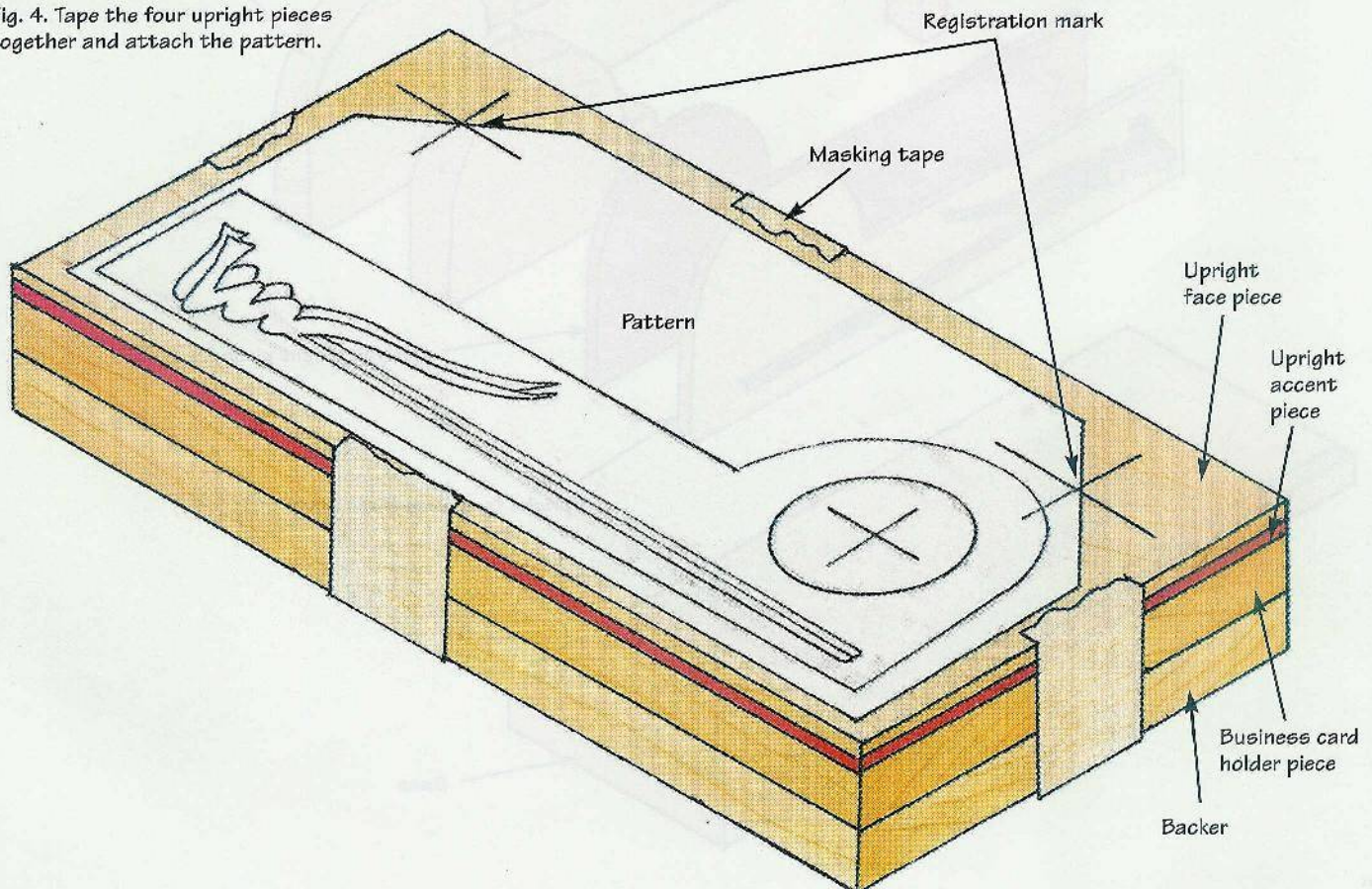


Fig. 4. Tape the four upright pieces together and attach the pattern.



continued on page 54

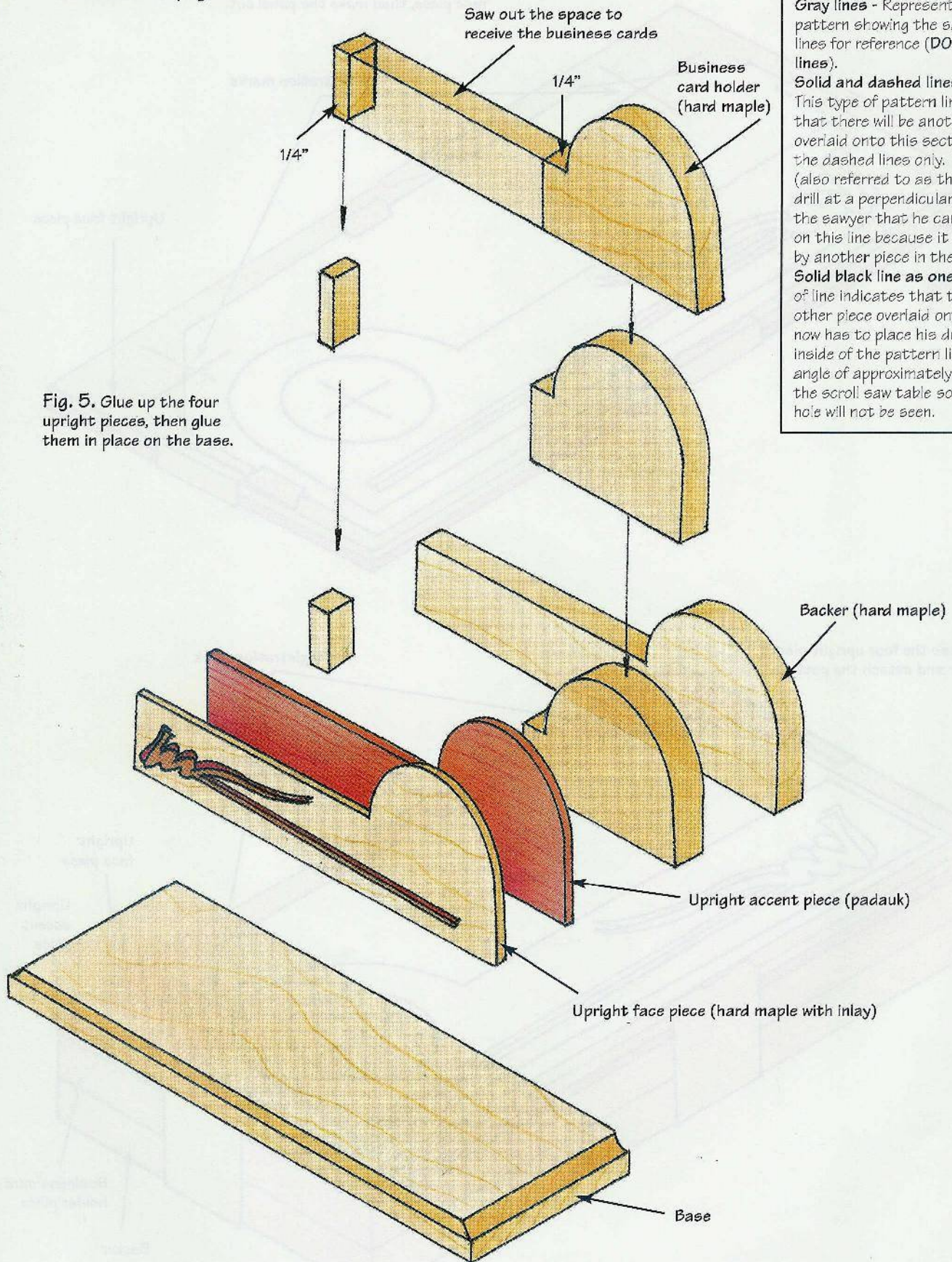


Fig. 5. Glue up the four upright pieces, then glue them in place on the base.

Full Size Patterns

Pattern Nomenclature

Gray lines - Represents the complete pattern showing the sawyer all of the lines for reference (DO NOT cut these lines).

Solid and dashed lines as one path - This type of pattern line tells the sawyer that there will be another inlay piece overlaid onto this section that contains the dashed lines only. The dashed lines, (also referred to as the safe area to drill at a perpendicular angle) also tell the sawyer that he can drill a pierce hole on this line because it will be covered up by another piece in the future.

Solid black line as one path - This type of line indicates that there will be no other piece overlaid onto it. The sawyer now has to place his drill bit to the inside of the pattern line and drill at an angle of approximately the same tilt as the scroll saw table so that the drill hole will not be seen.

Upright Face Piece

1/8" x 4" x 8"

Grain direction

Plate No. 1

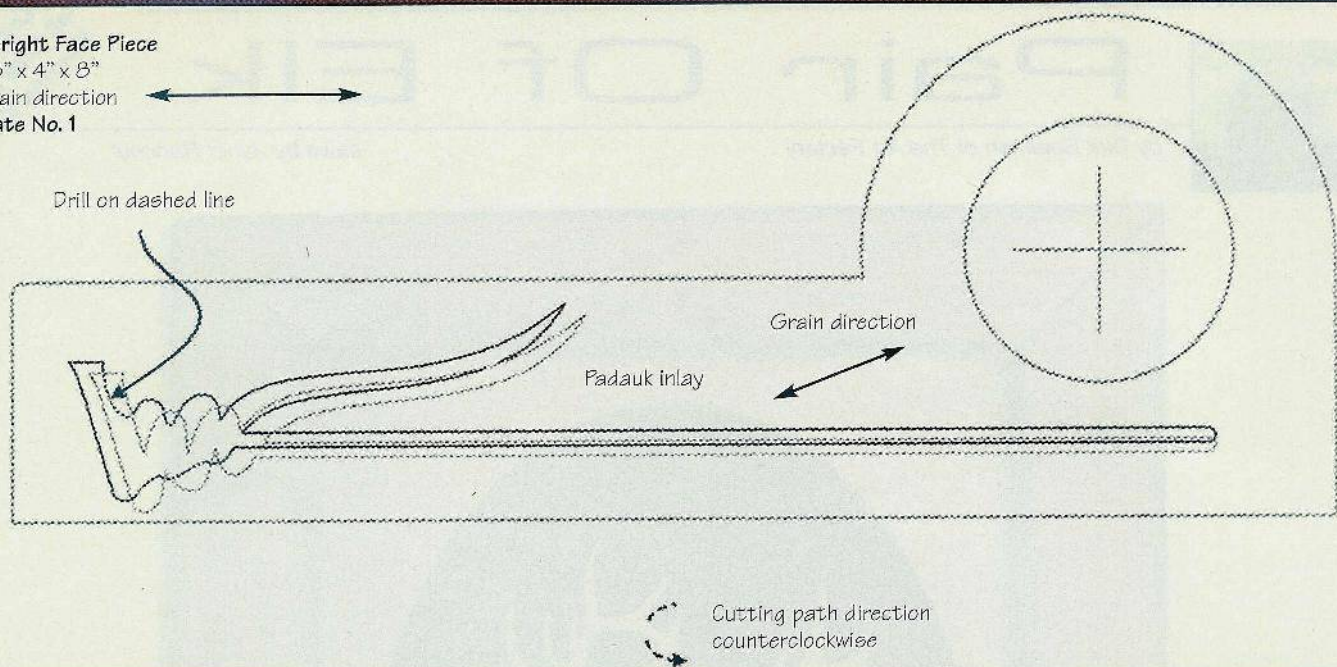


Plate No. 2

Grain direction

Place drill bit on inside of solid black line and drill at an angle approximately the same as the tilt of your saw table

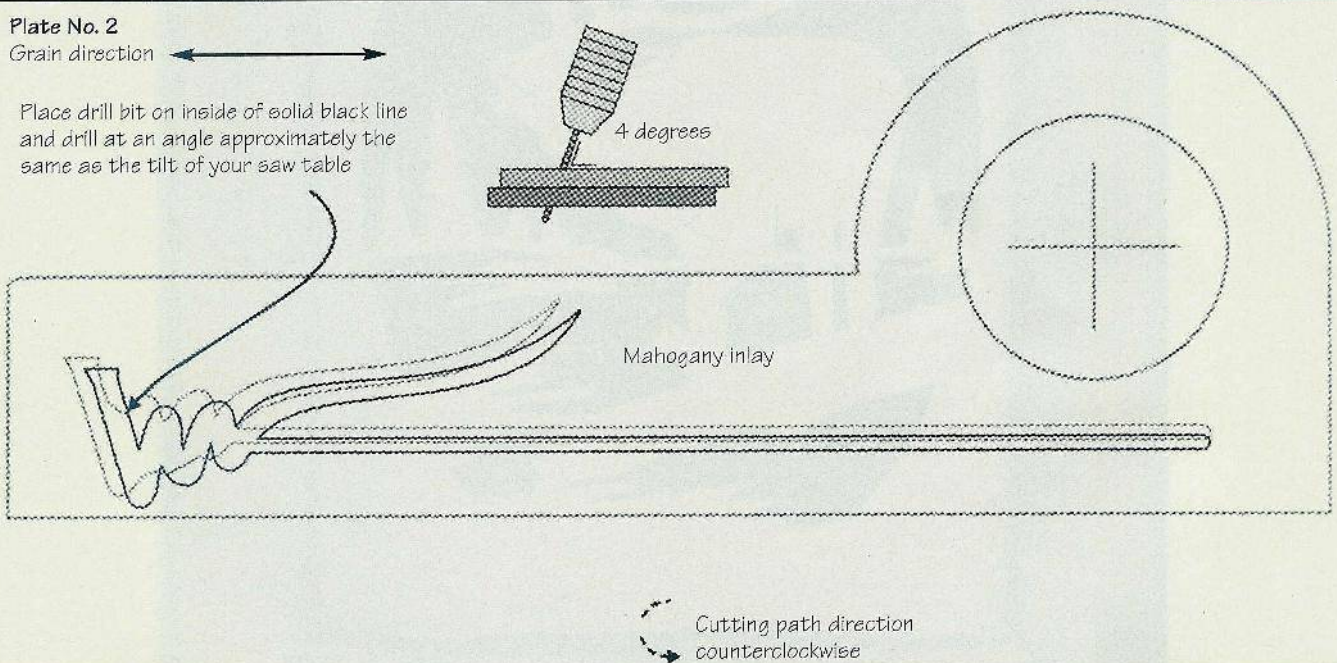
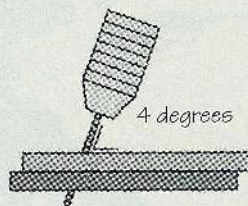
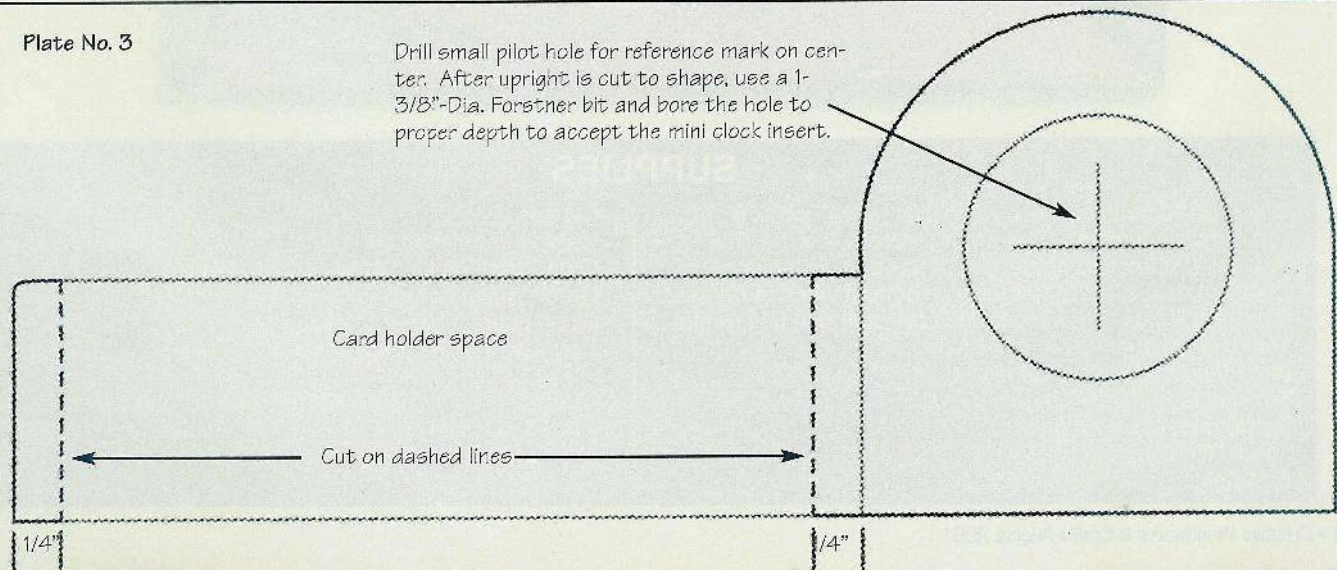


Plate No. 3

Drill small pilot hole for reference mark on center. After upright is cut to shape, use a 1-3/8"-Dia. Forstner bit and bore the hole to proper depth to accept the mini clock insert.



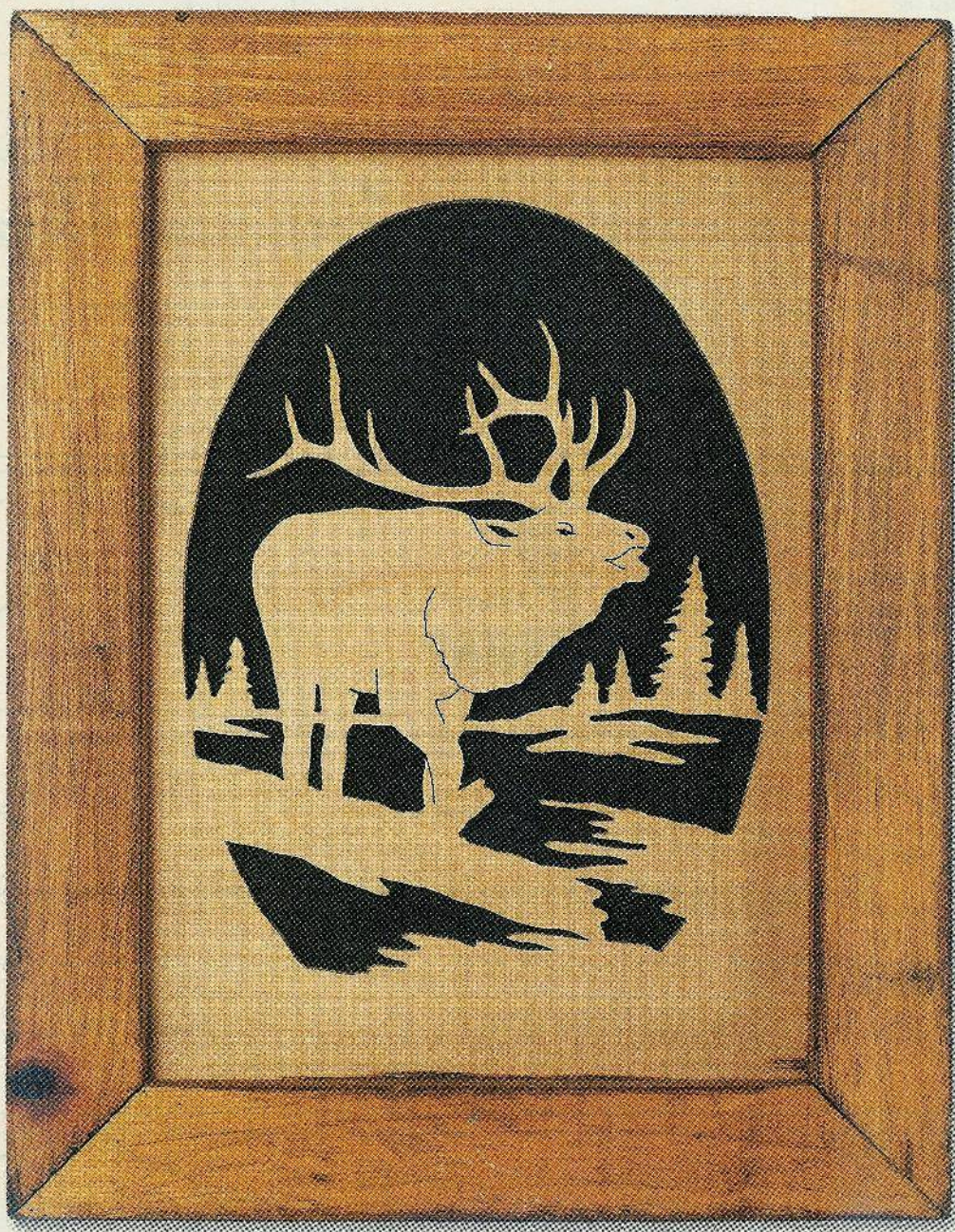


Pair Of Elk

by Dirk Boelman of The Art Factory

sawn by Janet Rancour

Pattern
Located in
Full Size Pattern
Section No. 1!



SUPPLIES

Wood: *Baltic birch plywood*—two pieces $\frac{1}{4}$ " x 6" x 8- $\frac{1}{4}$ " (for the silhouettes); *pine*—four pieces $\frac{3}{4}$ " x 1- $\frac{1}{8}$ " x 10- $\frac{1}{8}$ " (for left and right sides of frames), four pieces $\frac{3}{4}$ " x 1- $\frac{1}{8}$ " x 7- $\frac{7}{8}$ " (for top and bottom sides of frames)
Tools: scroll saw with assorted blades; drill with bits; router with $\frac{1}{4}$ " rabbeting bit; miter saw
Temporary-bond spray adhesive
Masking tape (optional)
Sandpaper, assorted grits
Needle files
Wood glue

Clamps
Varnish or finish of choice
Old English dark colored scratch cover
Green velvet board* (6" x 8- $\frac{1}{4}$ ")
Small brads, clips or cleats
Two sawtooth hangers

*Available from The Art Factory in a 16" x 20" piece for \$10.95 plus S&H at P.O. Box 701, Platteville, WI 53818; phone (800) 566-6394 or fax (608) 348-8388.



INSTRUCTIONS

Here are a pair of gorgeous wildlife silhouettes that can be cut out and framed in a relatively short amount of time.

We made ours from 1/4" thick Baltic birch plywood which was finished with Watco Natural Danish Oil and framed with a simple pine frame. We installed green velvet board behind the silhouettes, and when they were all done, they looked just like pictures you'd find hanging on the walls of a cabin in the mountains way out west!

Adhere patterns to the wood with temporary-bond spray adhesive, using the outer lines of the patterns to line up with the edges of the wood. **Note:** you may want to saw more than one of the elks at a time. If so, stack two or three pieces of wood with pattern on top. Tightly wrap several pieces of masking tape around all of the edges to securely hold the stack together.

Drill small blade entry holes inside all of the areas to be cut out, then make all cuts with your scroll saw, starting with the inside cuts and working toward the perimeter. Once all cutting is complete, remove patterns, sand, and touch up imperfections with needle files, sandpaper, etc.

To make the frames for the silhouettes, rout a rabbet or lip

5/16" deep with the 1/4" rabbeting bit in all frame pieces. This will receive the silhouettes and backer material when the frames are assembled. Miter corners 45 degrees, then glue and clamp together until dry.

Apply finish to frames as desired. We gave ours a distressed appearance. First, we applied a quick, thin coat of varnish and allowed it to dry. **Note:** we did not sand our boards. We then "scuffed up" the varnish with sandpaper and rubbed the boards against the rough edges of cement blocks, etc. After attaining "just enough" distress, we used a rag to apply a coat of Old English dark colored scratch cover. Most of it wiped off the varnished areas, while filling in the dings, dents, scratches and bruises. It's an easy way to make new wood look old!

Behind our silhouettes, we installed a green colored velvet board. This fabric mat board is a little over 1/16" thick and is an attractive, as well as sturdy, material to use for this purpose. It cuts easily with a utility knife, or you can cut it on your scroll saw.

Install the silhouettes and backing material inside the frames. Use small brads, clips or cleats to hold these items in place. Attach sawtooth hangers and hang 'em up on your cabin walls to enjoy!



Mission Style Trestle Bench

by Robert Belke



BILL OF MATERIALS

Part	Description	Size in inches	Quantity
<i>5/4 cherry:</i>			
A	Seat	1-1/16 x 12 x 60	1
B	Crossbar	1-1/16 x 3 x 58	1
C	End pieces	1-1/16 x 11 x 16	2
D	Top cleats	2-1/8 x 2 x 10	2
E	Wedges	1/4 x 1-1/8 x 4	2
F	Seat supports	1-1/16 x 2 x 10	4

SUPPLIES

Tools: table saw with stacked dado cutters; band saw; mortiser (Jet Model JBM-5*); drill press with 3/4"-Dia. Forstner bit and 3/8" plug cutter (optional); jointer/planer; router with 3/8" and 1/4" roundover bits and 3/8" chamfer bit; biscuit joiner with No. 10 biscuits; orbital and palm sanders; saber saw; belt sander; mallet and chisel

Sandpaper, assorted grits

Wood glue

Scraper

Bar clamps

Twenty No. 8 x 2" wood screws

Watco Danish oil finish

Lint-free wipes

Cabinet wax

*Available from Woodcraft, catalog No. 814541, 560 Airport Industrial Park, P.O. Box 1686, Parkersburg, WV 26102-1686; (800) 225-1153.



This bench is ideal for use in a foyer or hallway, and a pair of these could serve as benches for a dining table.

INSTRUCTIONS

Make the seat

To obtain the 12" width of the seat, it may be necessary to edge glue two pieces of 5/4 cherry together (see **Fig. 1**). First, true up the edges with a jointer/planer, then join the two boards using glue and a few No. 10 biscuits. The biscuits will not only align the two boards, but they add tremendous strength to the glue-up. Clamp the boards with bar clamps until the glue is dry. Using a scraper, remove all glue leakage from the joint. Sand the seat smooth. Lay out a 1" radius on each corner and cut using a saber saw. Smooth these cuts using a belt sander. Next, with the router and 3/8" roundover bit, round over all of the edges.

Make the end pieces

Again, it may be necessary to glue up boards in order to obtain the necessary 11" width. This time, however, biscuits are not needed. Instead, just edge glue the stock together and clamp it. Before cutting the two end pieces, lay out the mortise, tenon, and the two diagonal side cuts.

First, rough out the 3/4" x 2" thru mortises, which will receive the crossbar. With a 3/4" Forstner bit, bore a series of holes in the waste area of the mortise, then square it up with a mallet and sharp chisel (see the **Plan View Drawings**).

Next, using the table saw, cut the 1/8" deep shoulders of the tenons at the top of each end piece. The aim here is to wind up with a 3/4" thick tenon. Using the stacked dado head installed in the table saw, remove the bulk of the wood, thus forming the tenon. Lay out the 6" tenon length and cut the waste with the band saw.

Cut a 4" radius centered at the bottom of each piece, then cut the tapered sides on the band saw. When doing this last operation, let the line marks show proud. The wood can then be smoothed with the jointer/planer. Using a 1/4" roundover bit, round over the sides and curved edges.

Make the top cleats

The cleats are made by laminating two 5/4 pieces of cherry (see **Fig. 2**). Before you glue these up, make the 3/4" mortise by cutting a 3/8" dado in each mating piece with the table saw. This is much easier than cutting the mortise after the parts are glued up. The cleat mortises should fit snugly on the tenons previously formed on the end pieces. Using the band saw, cut a 2" radius on the ends of each top cleat. Sand these parts.

Make the seat supports

As with the top cleats, these are made from 5/4 cherry and have a 2" radius cut on each end. Drill and countersink three pilot holes in the edge of the pieces for the No. 8 x 2" wood screws (see the **Plan View Drawings**). These will be used during final assembly to secure the seat to the end pieces. Continuing to refer to the drawings, drill and countersink two pilot holes for No. 8 x 2" wood screws on the side of each support. Using the router and 1/4" roundover bit, round over the outside bottom edge of each support.

Make the crossbar

Cut this piece to the dimensions indicated in the Bill of Materials and the **Plan View Drawings**. Cut a 2" x 3-1/2" tenon on each end. Fit these tenons to the thru mortises in the end pieces. Mark out the dimensions for the thru mortises on the end of each crossbar tenon. These mortises can easily be cut using a dedicated mortiser, such as a Jet Model JBM-5. Lay out a 1" radius on each end and cut using either a band saw or saber saw. Smooth these ends out. Cut a chamfer on the edges of the crossbar with the router and 3/8" chamfer bit. Sand the crossbar smooth.

Make the wedges

These parts are 1/4" thick and can be cut from some of the scrap 5/4 stock you have left.

Assembly

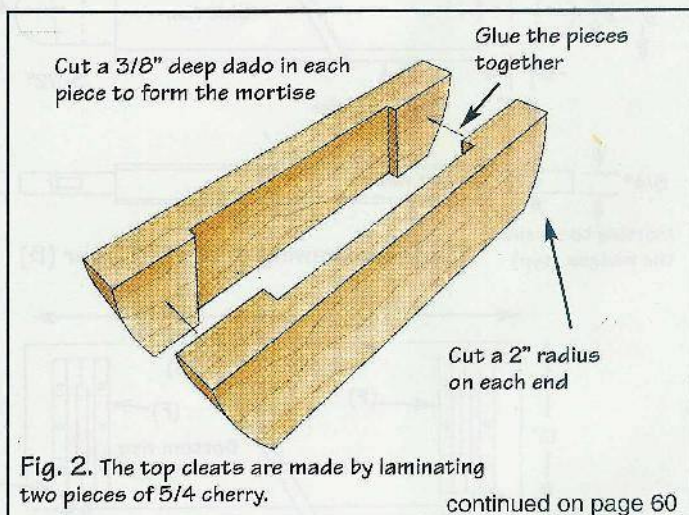
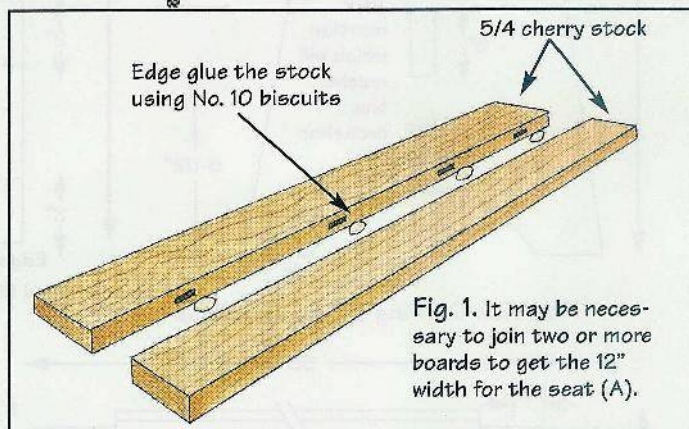
It is assumed that before you do any gluing, all parts will have been dry assembled to assure a proper fit.

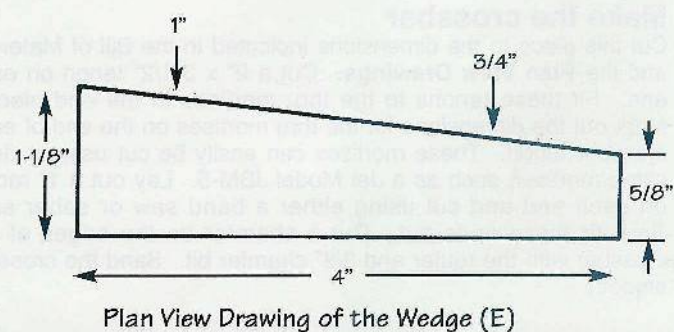
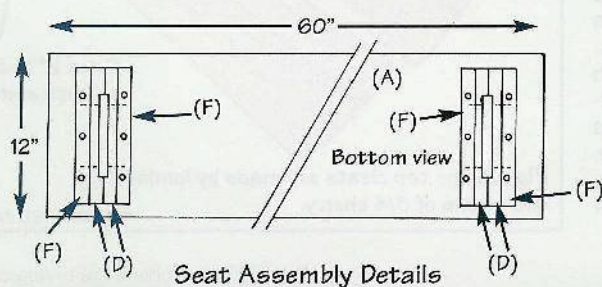
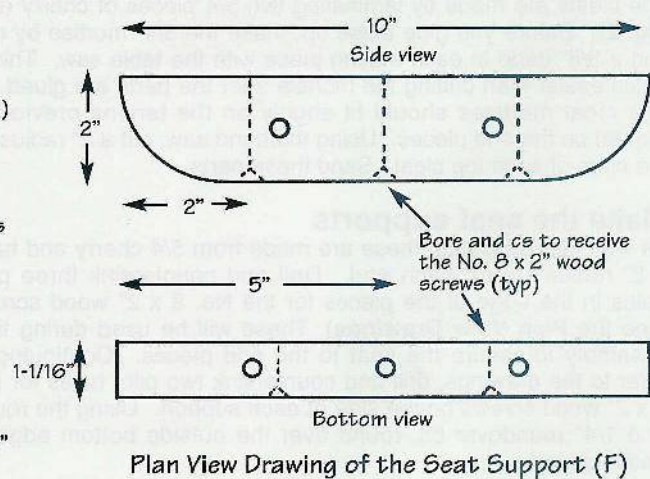
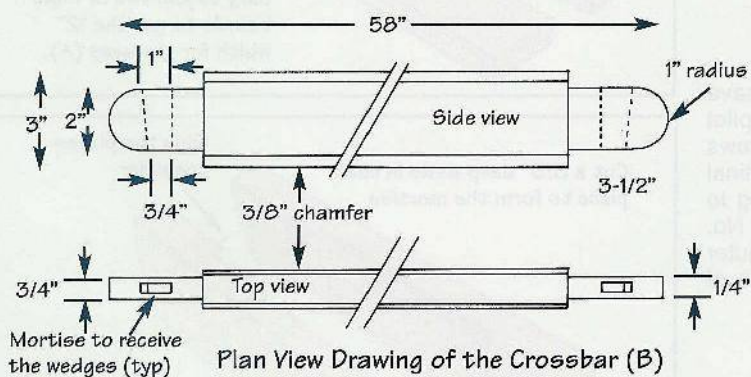
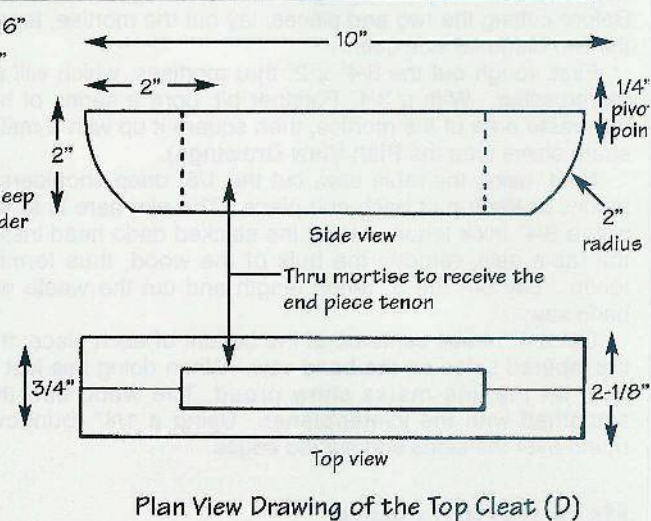
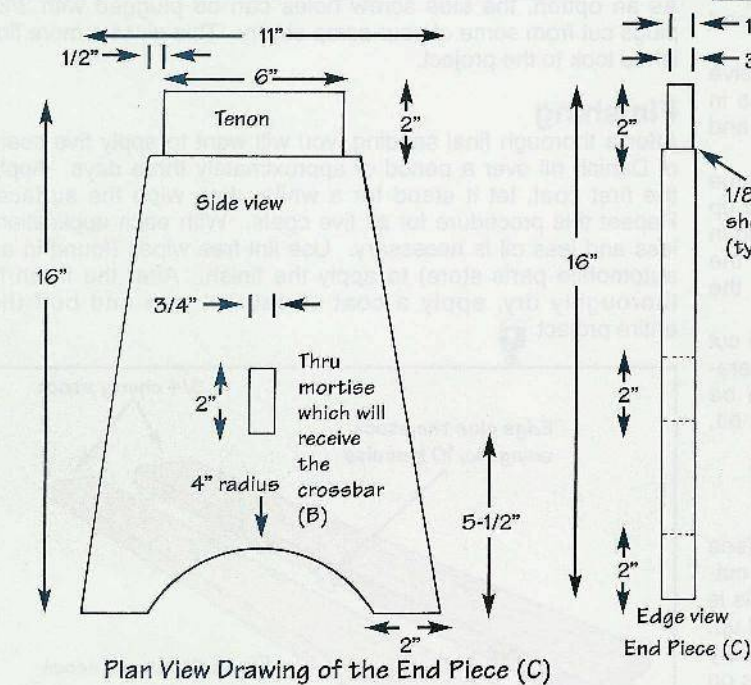
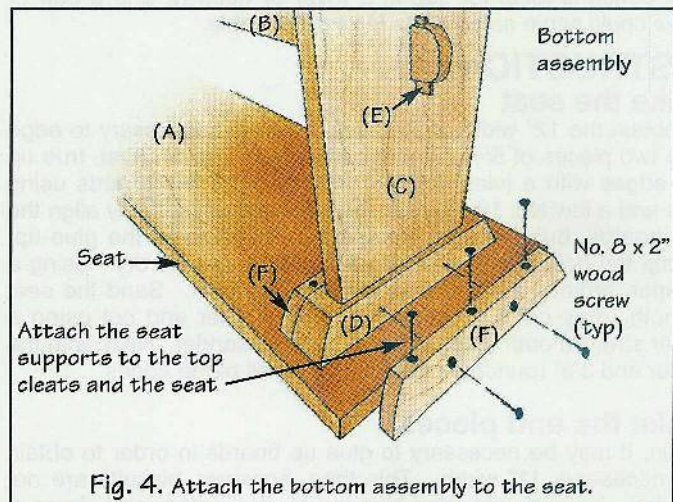
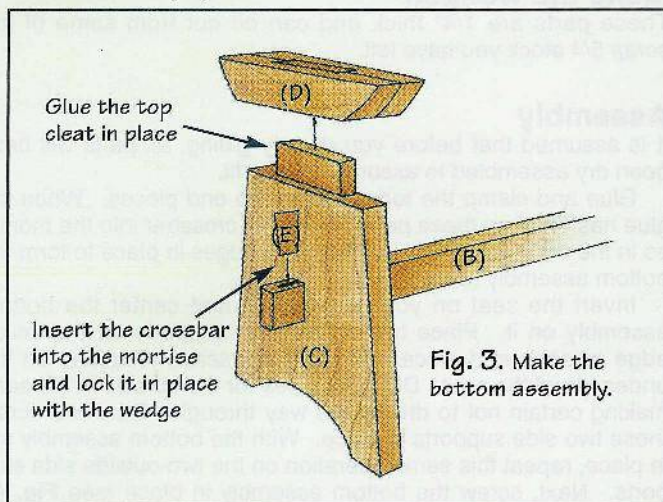
Glue and clamp the top cleats to the end pieces. When the glue has dried on these parts, insert the crossbar into the mortises in the end pieces and tap the two wedges in place to form the bottom assembly (see **Fig. 3**).

Invert the seat on your workbench and center the bottom assembly on it. Place two of the seat supports on the inside edge of each end piece and mark the screw locations on the underside of the seat. Drill pilot holes for the screws in the seat, making certain not to drill all the way through. Glue and screw these two side supports in place. With the bottom assembly still in place, repeat this same operation on the two outside side supports. Next, screw the bottom assembly in place (see **Fig. 4**). As an option, the side screw holes can be plugged with 3/8" plugs cut from some of your scrap cherry. This gives a more finished look to the project.

Finishing

After a thorough final sanding, you will want to apply five coats of Danish oil over a period of approximately three days. Apply the first coat, let it stand for a while, then wipe the surface. Repeat this procedure for all five coats. With each application, less and less oil is necessary. Use lint-free wipes (found in an automobile parts store) to apply the finish. After the finish is thoroughly dry, apply a coat of cabinet wax and buff the entire project.





Gone Fishing Plaque

by Floyd Jensen and Rick Parsons



SUPPLIES

Wood: Baltic birch plywood—one piece $\frac{1}{4}$ " x $3\frac{1}{2}$ " x 15" (for the fish), one piece $\frac{1}{4}$ " x $2\frac{1}{2}$ " x 12" (for the letters); pine—one piece $\frac{3}{4}$ " x 7" x 16" (for the backer); two pieces $\frac{3}{8}$ " x $1\frac{1}{4}$ " x $1\frac{1}{4}$ " (for spacers for 3-D effect—optional)
Tools: scroll saw with Nos. 2 and 3 blades; drill with .52 or .63 bit; woodburning tool
Temporary-bond spray adhesive
Sandpaper, assorted grits
Wood glue
Latex acrylic paint, light blue or color of choice
Clear polyurethane of choice

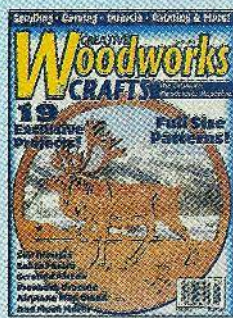
INSTRUCTIONS

Copy and transfer the patterns to the wood with spray adhesive. Bore blade entry holes in the waste areas of the patterns and cut the fish and letters to shape. Saw the $\frac{3}{4}$ " pine backer to shape. Sand all pieces.

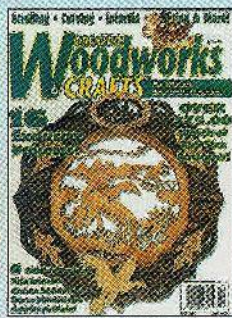
Paint the backer piece and allow to dry. Referring to the pattern, glue the spacers on the fish where indicated for 3-D effect. Glue the fish and letters in place on the backer. Use a woodburning tool to add detail to the fish and letters. Apply several coats of clear polyurethane and enjoy. 

CREATIVE WOODWORKS &

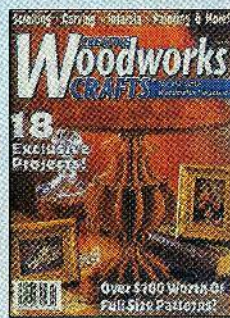
ORDER NOW WHILE SUPPLIES LAST! FREE SHIPPING WITHIN
EACH ISSUE \$6.00 • ANY 5 ISSUES \$28.00 • ANY 8 ISSUES \$42.00



JANUARY 2000
3-D Falcon, Ram and Caibou, Bi-Plane Mini Clock, Oak Mirror, 2 Crosses, and more!



APRIL 2000
Duck Plate, Clown Intarsia, Heavy Fretwork Box, Two Great Horse Silhouettes, Carving a Flower Plaque, and more!



JUNE 2000
"Warwick" Table Lamp, Two Dragon Puzzles, Cat Family Mini Clock, Bobcat, Mule Deer, Walnut Intarsia, and more!



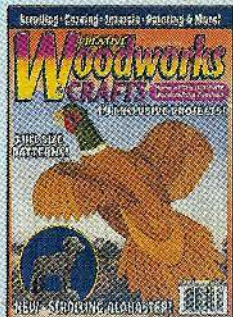
AUGUST 2000
French Lyre Clock, Noah's Ark Puzzle, Tiger Silhouette, Elk Desk Set, Two Wilkens Mini Clocks, and more!



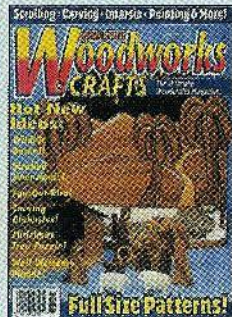
OCTOBER 2000
Deer Intarsia, Fretwork Basket, Fretwork Music Box, Oak Leaf Clock, "American Pride Eagle", and more!



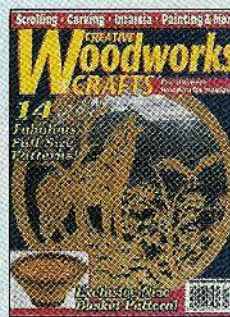
NOVEMBER 2000
Nine Cross Ornaments, Bass Mini Clock, Ship in a Bottle Silhouette, Nautical Shelf, Trou Frame, Southwestern Box, Peasant Clock, and more!



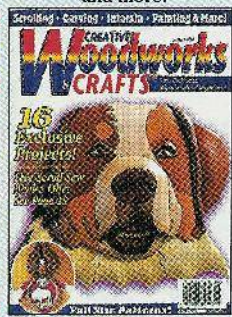
SEPTEMBER 1998
Pheasant Intarsia, Lion Key Rack, 3-D Ram, Wolf Cub, 1903 Wright Flyer, and more!



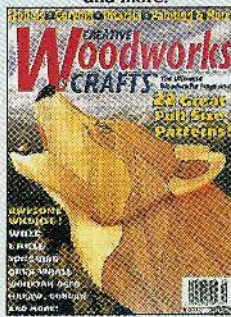
NOVEMBER 1998
Christmas Tree Puzzle, Mallard Silhouette, Wolf Welcome Plaque, Wild West Lampshade, and more!



APRIL 1999
Orca Ornament, New Basket Design, Bear, Piano Music Box, and more!



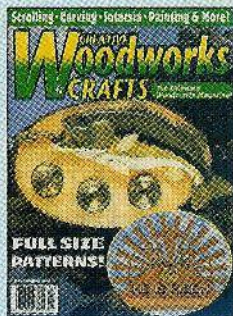
AUGUST 1999
Dog Intarsia, Pheasant Collector's Plate, Love Birds Clock, and more!



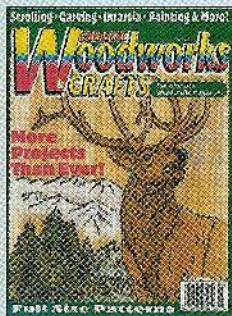
OCTOBER 1999
Wolf Intarsia, Eagle Dreamcatcher, Cougar, Whitetail Buck, "Bless Our Home" Silho, and more!



NOVEMBER 1999
Two Lighthouse Mini Clock, Dragon, Butterfly Band Saw Box, Mini Grandmother Clock, and more!



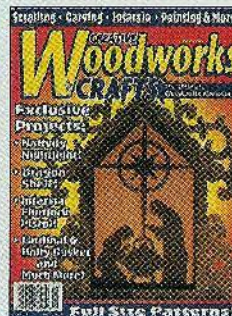
APRIL 1998
Religious Mini Clock, "Hungry Bass" Intarsia, Carving a Polar Bear, and more!



MAY 1998
Elk Plaque, Big Buck Silhouette, Rhino Intarsia, and more!



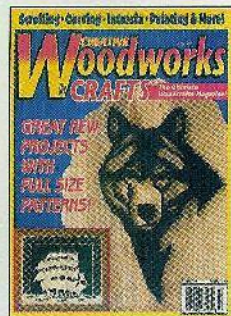
JUNE 1998
Fretwork Music Box, Religious Mini Clock, Mini Wall Bar, Lighthouse Silhouette, and more!



JANUARY 1999
Dragon Shelf, Slotted Ornaments, British Naval Flintlock (Intarsia), & more!



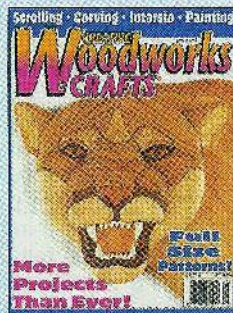
MARCH 1999
King Penguins (Intarsia), Lion Inlay, Queen Anne Fretwork Frame, and more!



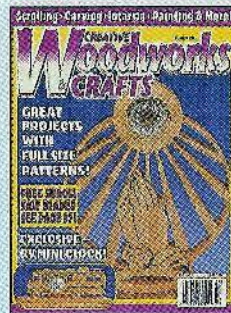
JULY 1998
Wolf Plaque, Geronimo Silho, Pheasant, Sailboat, Beehive Scroll Saw Projects, and more!



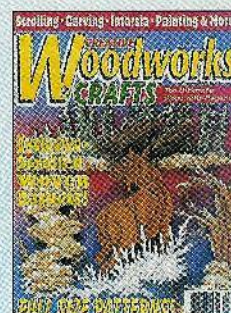
JUNE 1997
Tiger and Eagle Mini Clocks, Midnight Snacker (Raccoon) Intarsia, Fretwork Eagle, Carving a Frame, Christopher Mantel Clock, and more!



AUGUST 1997
Intarsia Cougar, Cardinal Mini Clock, English Pipe Box, article on Marvin Kaisersatt: "Carver of the People", Two Wolf Scroll Saw Projects, and more!



OCTOBER 1997
Praying Hands and RV Mini Clocks, Dinosaurs 4-Pack Toy, Santa Fe Pueblo, Fabulous Fretwork Clocks, and more!



DECEMBER 1997
Scrolled Baskets, Family Tree, Thunderbird Silhouette, Carving a Santa Ornament, and more!

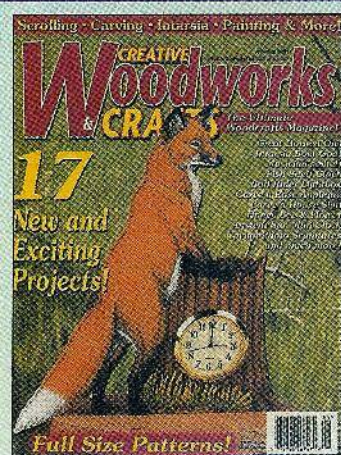


MARCH 1998
Fretwork Trivet, Scrolled Phone & Accessory Stand, Northwoods Nightlight, and more!

CRAFTS BACK ISSUE SALE

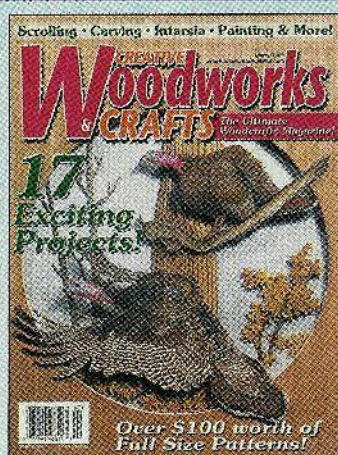
THE U.S.! ORDERS OUTSIDE NORTH AMERICA CALL (972) 722-9722

• ANY 10 ISSUES \$50.00 • ANY 15 ISSUES \$70.00 (US Funds Only)



JANUARY 2001

Bull Rider Lightbox, Fish Clock, Musician's Shelf, "Sailing The Globe" Silhouette, Spider Clock, Two Wilkens Mini Clocks, and more!



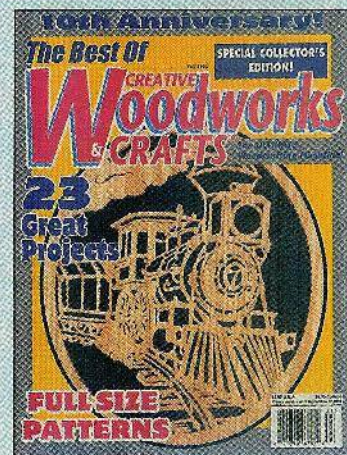
MARCH 2001

Wild Turkeys, Fretwork Music Box, Nascar Plaque, 3-Dragons Nightlight, Fretwork Cross Candleholder, Grizzly Bear, Hawk, Sharpening Carving Tools, and much more!



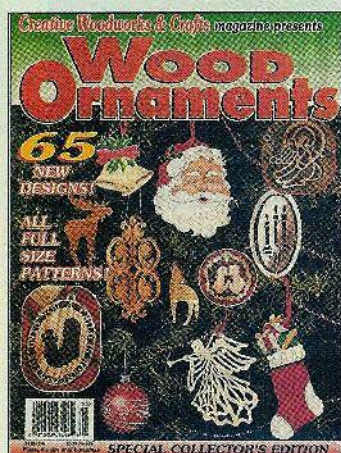
SCROLL WORLD

100% Scroll-Saw Projects!
African Mini Clock, "Crown of Thorns" Wall Shelf, Fall Harvest Relief Plaque, Impala Antelope Intarsia, Nature's Way Plaque.



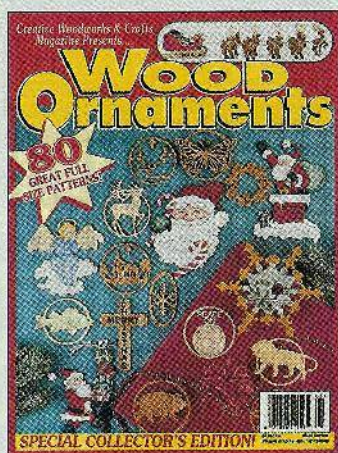
BEST OF CREATIVE WOODWORKS & CRAFTS

10 yr. Anniversary Special Collectors Edition, featuring 23 of our best projects ever!



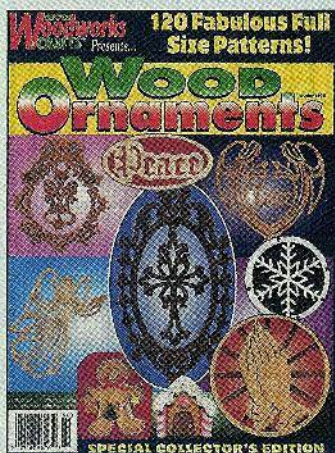
WOOD ORNAMENTS - WINTER 1996-97

Featuring 65 Full Size Ornament Patterns!



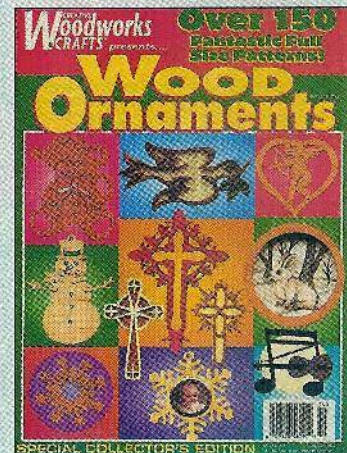
WOOD ORNAMENTS - WINTER '97-'98

80 Terrific patterns in one issue, and 3-D deer and sleigh patterns!



WOOD ORNAMENTS - WINTER '98-'99

120 Marvelous patterns, all in one magazine!



WOOD ORNAMENTS - WINTER 1999-2000

Featuring 151 Full Size Ornament Patterns!

ORDERING GUIDELINES: PLEASE ADDRESS ALL BACK ISSUE ORDERS (AND MAKE CHECK OR MONEY ORDER PAYABLE) TO: SEYCO, THE SCROLL SAW SPECIALISTS, INC., P.O. BOX 1900, ROCKWALL, TX 75087, (DEPT. B-10).

• WRITTEN ORDERS ONLY, PLEASE • PLEASE ORDER ONLY FROM THE ISSUES SHOWN IN THIS AD; NO OTHERS ARE AVAILABLE •

• PLEASE USE THE PRICES SHOWN IN THIS AD; DO NOT ORDER FROM PAST BACK ISSUE ADS. •

NAME _____ Enclosed is my payment of \$ _____ for _____ back issues

ADDRESS _____

CITY/STATE/ZIP _____

Indicate which issues you want (write in how many of each if more than one)

☐ Scroll World

☐ April 1998

☐ January 1999

☐ April 2000

☐ Wood Ornaments '96-'97

☐ April 1997

☐ May 1998

☐ March 1999

☐ June 2000

☐ Wood Ornaments '97-'98

☐ June 1997

☐ June 1998

☐ April 1999

☐ August 2000

☐ Wood Ornaments '98-'99

☐ August 1997

☐ July 1998

☐ August 1999

☐ October 2000

☐ Wood Ornaments '99-'00

☐ October 1997

☐ September 1998

☐ October 1999

☐ November 2000

☐ December 1997

☐ Best of CWW&C

☐ November 1999

☐ January 2001

☐ March 1998

☐ November 1998

☐ January 2000

☐ March 2001

SEND ALL BACK ISSUE ORDERS (AND MAKE CHECK OR MONEY ORDER PAYABLE) TO: SEYCO, THE SCROLL SAW SPECIALISTS, INC., P.O. BOX 1900, ROCKWALL, TX 75087.

ANYTHING TO DO WITH CLOCKS WE HAVE IT!

Our Catalog Features

- High quality resins
- Clock & Table Slab Woods - Cypress, Redwood, Buckeye
- Largest Selection of Laser Foil & Lithograph Prints - 6x8, 8x10, 16x20
- 100's of plastic clock faces • Bezels • Fitups
- Chime & pendulum movements • Cedar Plaques
- Batteries • Zip Lock Bags

Free Catalog

WOODSHED

Gifts & Clocks Factory Outlet

NOW AT TWO CONVENIENT LOCATIONS:

1729 Shelby St. Indianapolis, IN 46203 Visit us at our NEW (second) location:
7345 Pennington St., Lanesville, IN 47136

Call or Write To Order - We Accept Mastercard or Visa
(800) 388-6322 www.woodshedclocks.com

HIGHEST QUALITY QUARTZ MOVEMENTS

CLOCK SUPPLY

SPECIAL

- Includes:**
- 6 Sets of 3/4" Numbers
 - 6 Brass Second Hands
 - 6 Pairs 2 1/4" Brass Hands
 - 6 Pairs 3 1/4" Brass Hands
 - 6 Sets Hardware & Hangers
 - 6 Year Guarantee!
 - 6 AA Batteries
 - 6 Seiko Movements

6 PACK ONLY

\$23.50 Delivered

- 50-99 only \$2.15 each
 - 100 or more only \$1.95 each
- Quantity Orders Include Hands,
and second hand

MINI WATCH FIT-UPS



RECESS
DEPTH
5/16"

1 7/16"

1 3/8" Hole Size

Specifications

- 1-7/16" Outside Diameter
- 1-3/8" Inside Diameter
- Gold Bezel, White, Gold, or Black Face
- Arabic or Roman Numbers
- High Quality Japanese Movements
- High Quality Japanese Battery

6 PACK ONLY

\$32.50 Delivered

- 50-99 only \$3.75 each
- 100 or more only \$3.50 each

**ATTENTION CANADIANS:
SUBSCRIBE TO:**

CREATIVE Woodworks CRAFTS

**USING CANADIAN CURRENCY!
Pay For Your Subscription and Receive the
back issue of your choice FREE!**

\$42.50 / 7 Issues

PLUS FREE BACK ISSUE OF YOUR CHOICE!

**WRITE (AND MAKE CHECK & MONEY ORDERS
PAYABLE TO):**

Ford Enterprises

4093 Meadowbrook Drive

Unit 105, London, Ontario N6L1G1 or ORDER

TOLL FREE:

1-800-585-5965

**NO BANKS! NO HASSELS!
NO HIDDEN FEES!**

SCROLL SAW PATTERNS:

We carry patterns by Heartland Creations,
Wooden Teddy Bear, Carolina Scrollworks,
Wildlife Intarsia Designs, and more! Let us be
your Canadian source for patterns!

Web Site - www.woodcrafters.on.ca
Please ask about our CD Rom catalog

WE PAY CASH FOR ORIGINAL CLOCK DESIGNS AND SCROLL SAW PROJECTS!!! WE EVEN PAY CASH FOR "BRIGHT" IDEAS!!

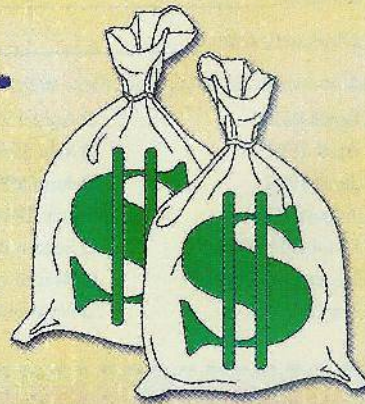
**Also, if you have a woodworking-related business
that you are interested in selling, if the business
can be relocated, we would like to talk to you!**

INTERESTED?

CALL STEEBAR CORP.

TODAY AT (973) 383-1026

**FOR COMPLETE DETAILS
& YOU COULD POSSIBLY
BEGIN RECEIVING THE
FIRST OF MANY EXTRA
PAY CHECKS!!!**



WOOD MARKET

THE WOOD SHED

GNOME TREE DOORS: profitable craft seller for gnome collectible market. Material costs average \$2.50 - sell for 10X. Woodcraft pattern. <http://www.smallbytes.net/~gnome-tree> 935-8-10-orn

FREE PLANS for a stylish, entertaining pet carrier, footrest, and storage unit at puddy-box.com 919-4-6-8

OTT-LITE TRUE COLOR LAMPS! Bright, glare-free, perfect for color matching, CRI=95. Bring daylight illumination inside! Discount prices! www.lumenlight.com 1-800-742-4289. 926-6-8-10-11-1

LIKE THE OLD WEST? You'll love 3D Wood Art! Stagecoaches, towns, trains, saloons, gunfighters, Indians, and more! This is **THE BEST** all-new collection, not available anywhere else! Five scenes and fifty patterns. \$19.95. 1-800-550-4884 or www.3DWoodArt.com 938-6-8-10-orn-11-1-3-4

Visit us on our website at:
<http://www.woodworksandcrafts.com>

Now available
Website Classifieds

Place your classified ad in the "Wood Shed" of *Creative Woodworks & Crafts* magazine and we will offer you the opportunity to place your ad on the Internet for an additional 25 cents per word. Plus, if your website address is included in your ad, we will add a hyper link back to your site for **FREE**. Call our Advertising Department at (973)383-8080 ext. 115.

The Scroll Saw Association of The World is proud to announce two SCROLLSAW CONTESTS!

June 16, 2001 at
Whisler's Pennsylvania Picnic

August 4, 2001 at
Diveley's Illinois Picnic

Three categories: Fretwork, Intarsia, and "Open" (non-pierced).

Great Prizes! Winners' photos will appear in *Creative Woodworks & Crafts*!

For more information, contact SAW's home office: 610 Daisy Lane, Round Lake Beach, IL 60073; Phone: (847) 546-1319; e-mail: saworld@usa.net



**The Midwest
Scroll Saw Picnic
Sponsored by
Joe Diveley**

When: Saturday,
August 4, 2001
Where: Pontiac, Illinois
Contact: Joe Diveley
P.O. Box 85
Graymont, IL
61743-0085
jldiveley@yahoo.com

ATTENTION WOODCRAFTERS!
Create fantastic items-in-wood using reliable

SWISS MUSIC MECHANISMS!
Over 500 tunes to choose from! BEAUTIFUL SOUND!
Make a hit with family and friends!

PATTERN PACKETS AVAILABLE!
Reasonably priced!
Call or write to

SWISS MUSIC BOX, Ltd.,
P.O. Box 26063, Shawnee
Mission, KS 66225-6063
1-800-255-0676 Fax 913-663-1158

SPECIAL OFFER FROM DIRK BOELMAN:

Send just \$2.00 and receive a sample copy of *Scroll Saw Chatter Newsletter* and an Art Factory catalog! Each issue of *Scroll Saw Chatter* features EXCLUSIVE NEW PATTERNS by Dirk Boelman and lots of fascinating, informative articles. Call, write, or fax

**The Art Factory, P.O. Box 701,
Platteville, WI 53818.
Fax: (608) 348-8388
1-800-566-6394 (US & Canada)**

**• ATTENTION CRAFTERS •
WHOLESALE PRICES
TO THE PUBLIC**

WHOLESALE WOOD SUPPLIES

- Clock Supplies
- Sanding Supplies
- Wood Turnings
- Shaker Pegs
- Candle Cups
- Scroll Blades
- Dowels
- Spools
- Baltic Birch Plywood

WHOLESALE SANDING SUPPLIES

- Hardware
- Cutouts
- Spindles
- Knobs
- Hearts
- Plugs
- Stars
- Snowmen
- Key Rings

—Over 850 Items to Choose From—
**PHONE 1-417-623-0656
OR WRITE FOR FREE CATALOG**

The Wood King
2220 S. Prosperity Ave.
Joplin, MO 64801

• WHOLESALE CLOCK SUPPLIES •

40 Species
of Exotic & Domestic
Hardwoods
FROM 1/8" TO 3/4" THICK

14 Species of Plywood

MASCOT SCROLL SAW BLADES

For Free Catalog Call:
**Toll Free: 1-888-751-1400 or
610-381-2286 • Fax 610-381-5155**

D & D Woodcrafts
RR 3 Box 3066
Saylorsburg, PA 18353-9617

Ocooch Hardwoods
Scroll Saw Ready Hardwoods
Basswood for Carving
Hardwood Planks
www.Ocoochhardwoods.com
Toll Free: 888-322-2432
Free Catalog!
Quality Lumber! Prompt Service!
Ocooch Hardwoods
26511 County Hy OO
Richland Center, WI 53581

**1,000 Plans
ONLINE**

www.meiselwoodhobby.com

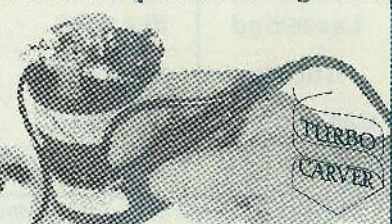
To request our new 104 page catalog send name and address to:
**Meisel Hardware Specialties
P.O. Box 70KA, Mound, MN
55364-0070**

TURBO CARVER II-450,000 RPM Air Powered, Precision Carving, Engraving, Scrimshaw & Inlaying System-As simple as tracing lines.

GET RID OF YOUR DUST COLLECTOR
The revolutionary—"MAINTENANCE FREE"
TURBO CARVER II, now available with optional
"WATER MIST SPRAY" eliminates dust, fumes,
prevents stress fractures and keeps
the bur cool for longer operating life.
Consumes approx 1 drop per second.

Maintenance free handpiece system-----\$214
Maintenance free handpiece with optional
water spray. Both include S&H-----\$365
See it in action-Demo video available for a
refundable-----\$14 plus \$3 S&H

ULTRA SPEED PRODUCTS, INC.
18500 E. Aschoff Rd, Zigzag Or 97049
800-373-0707, FAX 503-622-3252
<http://www.turbocarver.com>





SLOAN'S WOODSHOP

THE SCROLL SAW STORE



Baltic Birch Plywood

The Best Grade available: B/BB
 #101 - 1/8"x12"x12" - \$1.00
 #107 - 1/8"x12"x24" - \$1.90
 #102 - 1/4"x12"x12" - \$1.30
 #108 - 1/4"x12"x24" - \$2.50
 #103 - 3/8"x12"x12" - \$1.75
 #109 - 3/8"x12"x24" - \$3.40
 #104 - 1/2"x12"x12" - \$2.00
 #110 - 1/2"x12"x24" - \$3.90
 #105 - 5/8"x12"x12" - \$2.95
 #111 - 5/8"x12"x24" - \$5.80
 #106 - 3/4"x12"x12" - \$3.95
 #112 - 3/4"x12"x24" - \$7.80

Finland Birch Plywood

All have exterior glue !!!
 No patches on back face !!!
 #5241 - 1/32"x12"x12" - \$2.35
 #5241A - 1/32"x12"x24" - \$4.60
 #5242 - 1/16"x12"x12" - \$2.25
 #5242A - 1/16"x12"x24" - \$4.40
 #5249 - 1/8"x12"x12" - \$1.70
 #5249A - 1/8"x12"x24" - \$3.30
 #5252 - 1/4"x12"x12" - \$2.45
 #5252A - 1/4"x12"x24" - \$4.90

Hardwood Plywood

Good Two Sides

Red Oak
 #210 - 1/4"x12"x12" - \$2.00
 #211 - 1/4"x12"x24" - \$4.00
 #220 - 1/2"x12"x12" - \$3.25
 #221 - 1/2"x12"x24" - \$6.40

Cherry

#255 - 1/4"x12"x12" - \$3.50
 #256 - 1/4"x12"x24" - \$7.00

Walnut

#355 - 1/4"x12"x12" - \$4.50
 #356 - 1/4"x12"x24" - \$9.00

Maple

#453 - 1/4"x12"x12" - \$2.75
 #454 - 1/4"x12"x24" - \$5.25

Natural Birch

#310 - 1/4"x12"x12" - \$2.20
 #311 - 1/4"x12"x24" - \$4.30
 #320 - 1/2"x12"x12" - \$3.25
 #321 - 1/2"x12"x24" - \$6.40

Italian Poplar Plywood

Great for scrolling or Wood Burning !!!
 #5530 - 1/8"x12"x12" - \$1.50
 #5530A - 1/8"x12"x24" - \$2.90

Hardwood Plywood

Good One Side

Red Oak
 #205 - 1/8"x12"x12" - \$1.50
 #206 - 1/8"x12"x24" - \$3.00
 #200 - 1/4"x12"x12" - \$1.50
 #201 - 1/4"x12"x24" - \$3.00

Cherry

#260 - 1/8"x12"x12" - \$1.50
 #250 - 1/4"x12"x12" - \$2.50
 #251 - 1/4"x12"x24" - \$5.00

Walnut

#350 - 1/4"x12"x12" - \$3.50
 #351 - 1/4"x12"x24" - \$7.00

Maple

#450 - 1/4"x12"x12" - \$1.75
 #451 - 1/4"x12"x24" - \$3.40

Hickory

#375 - 1/4"x12"x12" - \$2.50
 #376 - 1/4"x12"x24" - \$5.00

Mahogany

#275 - 1/4"x12"x12" - \$2.50
 #276 - 1/4"x12"x24" - \$5.00

Natural Birch

#300 - 1/4"x12"x12" - \$1.90
 #301 - 1/4"x12"x24" - \$3.70

Ash Plywood

Good 1 side

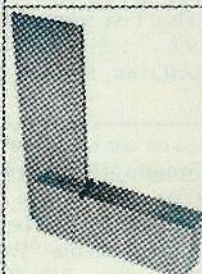
#425 - 1/4"x12"x12" - \$2.25
 #426 - 1/4"x12"x24" - \$4.40

Plywood Sampler

Try our sample pack, it includes one 12"x12" piece of each type and thickness of plywood we sell.

(28 - 12"x12" pieces total)
 \$66.05 if purchased separately

#501B - \$54.95



2 inch Precision Machine Square
 A must when stack cutting, Squares

your blade with the table

#SQ-2 - \$4.95

When you call us you'll talk to more than just an order taker !!! We all own and use scroll saws !!!

Premium Grade Hardwoods: Clear on the front face. The back face may contain minor defects. 6" +/- 1/8"

Sample Pack: one piece 1/8"x3"x6" of each species - #HW-1 \$9.95 **ASK ABOUT OUR WIDER WOODS !!!**

Species	Stock # 1/8"x6"x24"	Cost Each	Stock # 1/4"x6"x24"	Cost Each	Stock # 3/8"x6"x24"	Cost Each	Stock # 1/2"x6"x24"	Cost Each
Red Oak	#RED186	\$3.55	#RED146	\$3.95	#RED386	\$4.60	#RED126	\$4.60
Hard Maple	#MPL186	\$3.95	#MPL146	\$4.45	#MPL386	\$5.25	#MPL126	\$5.25
Walnut	#WAL186	\$4.45	#WAL146	\$4.95	#WAL386	\$5.95	#WAL126	\$5.95
Cherry	#CHY186	\$4.75	#CHY146	\$5.25	#CHY386	\$6.25	#CHY126	\$6.25
Purpleheart	#PHT186	\$4.25	#PHT146	\$4.95	#PHT386	\$5.95	#PHT126	\$6.95
Mahogany	#MAH186	\$5.00	#MAH146	\$5.60	#MAH386	\$6.50	#MAH126	\$6.75
Padauk	#PAD186	\$5.15	#PAD146	\$5.75	#PAD386	\$6.75	#PAD126	\$7.25
Lacewood	#LAC186	\$5.60	#LAC146	\$6.25	#LAC386	\$7.35	#LAC126	\$7.75
Bocote	#BOC186	\$9.30	#BOC146	\$10.40	#BOC386	\$11.95	#BOC126	\$12.95
Canarywood	#CAN186	\$4.95	#CAN146	\$5.45	#CAN386	\$6.25	#CAN126	\$6.75
Yellowheart	#YEL186	\$4.60	#YEL146	\$5.10	#YEL386	\$5.75	#YEL126	\$6.25

TO PLACE AN ORDER, CALL, FAX OR WRITE US. WE ACCEPT VISA, MasterCard, DISCOVER, CHECKS & MONEY ORDERS. SORRY NO COD'S.
 INCLUDE PHONE # AND STREET ADDRESS (NO PO BOXES) - MOST ORDERS ARE SHIPPED WITHIN 24 HOURS - WE SHIP BY UPS-100% INSURED
 TOLL FREE ORDER LINE - NO MINIMUM ORDER - NO EXTRA INSURANCE CHARGES - NO DOUBLE SHIPPING CHARGES Shipping charges on next page



Sloan's Woodshop - 3453 Callis Road - Lebanon, TN 37090

Phone: (615) 453-2222 Fax: (615) 453-0507 Email: info@sloanswoodshop.com

www.sloanswoodshop.com Check out our internet specials !!!



ORDER TOLL FREE: 1-888-615-9663

Good Wood - Great Prices - Fast, Friendly Service

www.sloanswoodshop.com



"Olson" Scroll Saw Blades

Regular Skip Tooth Blades

3/0, 2/0, 0, 2, 4, 5, 7, 9, 11

\$1.70 a Doz - \$17.00 a Gross
(mix or match for gross pricing)

Double Skip Tooth Blades

3/0, 2/0, 1, 3, 5, 7, 9, 12

\$1.70 a Doz - \$17.00 a Gross
(mix or match for gross pricing)

Reverse Skip Tooth Blades

2/0, 2, 5, 7, 9, 12, 420R

\$1.95 a Doz - \$19.50 a Gross
(mix or match for gross pricing)

Spiral Tooth Blades

2/0, 0, 2, 4

\$1.95 a Doz - \$19.50 a Gross
(mix or match for gross pricing)

Crown Tooth Blades

2/0, 2, 3, 5, 7, 9, 12

\$2.30 a Doz - \$23.00 a Gross
(mix or match for gross pricing)

Precision Ground Tooth

5, 7, 9,

\$3.50 a Doz - \$35.00 a Gross
(mix or match for gross pricing)

"NEW" PGT Double Tooth

5, 7, 9,

\$3.50 a Doz - \$35.00 a Gross
(mix or match for gross pricing)

ALL BLADES ABOVE ARE 5" PLAIN END
ALL ARE TOP QUALITY OLSON BLADES !!!

Mini Drill Bits

1/16", 3/32", 1/8" Bits - \$4.50 Doz

NUMBERED DRILL BITS

#54, #56, #58, #61, #64,
#67, #70, #72

\$7.50 per Dozen

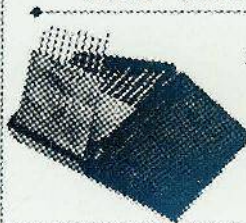
(sorry no mixing sizes of drill bits)



Precision Pin Chuck

Use mini bits in a drill press with this quality Pin Chuck. With 3 collets, it holds bits #80-#49. The 3/32" shank will also fit dremel tools.

PC-1 \$9.95 each



20 Piece Mini
Drill Bit Set
#61 - #80
metal case
#20pcDS
\$9.95

PLEXIGLAS SHEETS

Solid Colors

(Translucent)

\$7.95 ea

1/8"x12"x24"

Red, Blue, Green, Yellow,
Orange, Black, White

\$12.95 ea

1/4"x12"x24"

Red, Blue, White, Black

Transparent Colors

\$7.95 ea

1/8"x12"x24"

Red, Blue, Green, Yellow,
Orange, Smoke, Clear
(clear only \$5.50 each)

\$9.00 ea

1/4"x12"x24"

Clear Transparent

Mirrored Colors

\$12.50 ea

1/8"x12"x24"

Red, Blue, Green, Yellow,
Orange, Pink, Purple, Peach,
Gold, Bronze, Gray, Clear
(clear only \$9.00 each)

1/4"x12"x24"

Clear Mirror - \$15.00 ea

Plexiglas Sample Pack

one 3"x4" sample of each type
plexiglas above (32 pieces)

#919-E - \$15.95



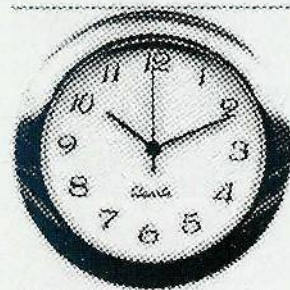
PIN VISE WITH 12PC DRILL SET

3/8" barrel with pocket
clip. All machined
parts are aluminum ex-
cept the chuck which is
tool steel. Drills
store neatly in the easy
grip knurled handle.
Opens easily, never
binds. Accepts drills
sizes from

#80 - #52

#PVISE-2
\$9.95 each

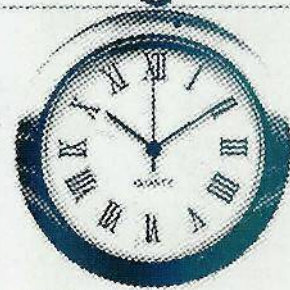
Free Catalog !!!



#CK100 - White Arabic

#CK103 - Ivory Arabic

#CK102 - Gold Arabic



#CK101 - White Roman

#CK104 - Ivory Roman

#CK105 - Gold Roman

1+ \$4.75 ~ 10+ \$4.35 ~ 30+ \$3.95 ~ 100+ \$3.65

1 7/16" Inserts, Glass Lens, Stainless Steel Back, With Battery
No ECONOMY INSERTS - NO RUBBER GASKETS - MIX OR MATCH PRICING !!!



#CK108 - New Dial !!

1 7/16" Fancy Gold & Black

Dial, Arabic Numbers

1+ \$5.50 ~ 10+ \$5.20

30+ \$4.75 ~ 100+ \$4.40



#PHOTO-1

1 7/16" Photo insert

1+ \$1.75 ~ 10+ \$1.55

30+ \$1.35 ~ 100+ \$1.25

We now have 2" Photo Inserts !!!

All Clock & photo inserts have a gold tone bezel. Clocks
include battery. All require a 1 3/8" mounting hole 5/16" deep.

1 3/8" Forstner Bit - #FOR138 - \$9.00 each

We also stock 2 3/4" & 3 1/2" clock inserts !!!



Blade Storage Tubes

Clear plastic tubes
3/4" dia. 6" long, tops
have hangtabs

\$3.95 dozen

#TUBE-12

Order Toll Free
1-888-615-9663

**Sloan's
Woodshop**

3453 Callis Road
Lebanon, TN
37090

SHIPPING CHARGES

Applies to the 48 contiguous states only

\$00.00 - \$40.00 add \$5.00

\$40.01 - \$60.00 add \$6.50

\$60.01 - \$80.00 add \$8.00

\$80.01 and over add 10%

Blade only orders \$5.00 shipping

TN residents add 8.25% Sales Tax

ADVANCED MACHINERY'S

NEW CATALOG

FEATURING

HEGNER Scroll Saws

Scroller's Dream Machines

- Easy for anyone to use
- Superior precision
- Unmatched reliability
- 7 year warranty

HEGNER Accura MK 4

Multi-Function Precision Machine

- 2 Speed 6" Table Saw
- 1/4" Inverted Router/Shaper
- 5" Disc Sander w/ Tilting Table

Apollo Spray TrueHVLPTM

Spray Guns and Turbines

- Save 50% on coatings
- Easy to use and clean
- Superior finish adds value to projects

PLUS

PLANO Vertical Glue Press,
RALI Handplanes and more

To receive your **FREE Catalog**,
please call **1.800.322.2226**

or write to:

ADVANCED MACHINERY • Dept. 6097 • P.O. Box 312 • New CASTLE, DE 19720 • www.advmachinery.com

HEGNER

APOLLO SPRAY

PLANO

z-Vise

RALE SWISS
HANDPLANE

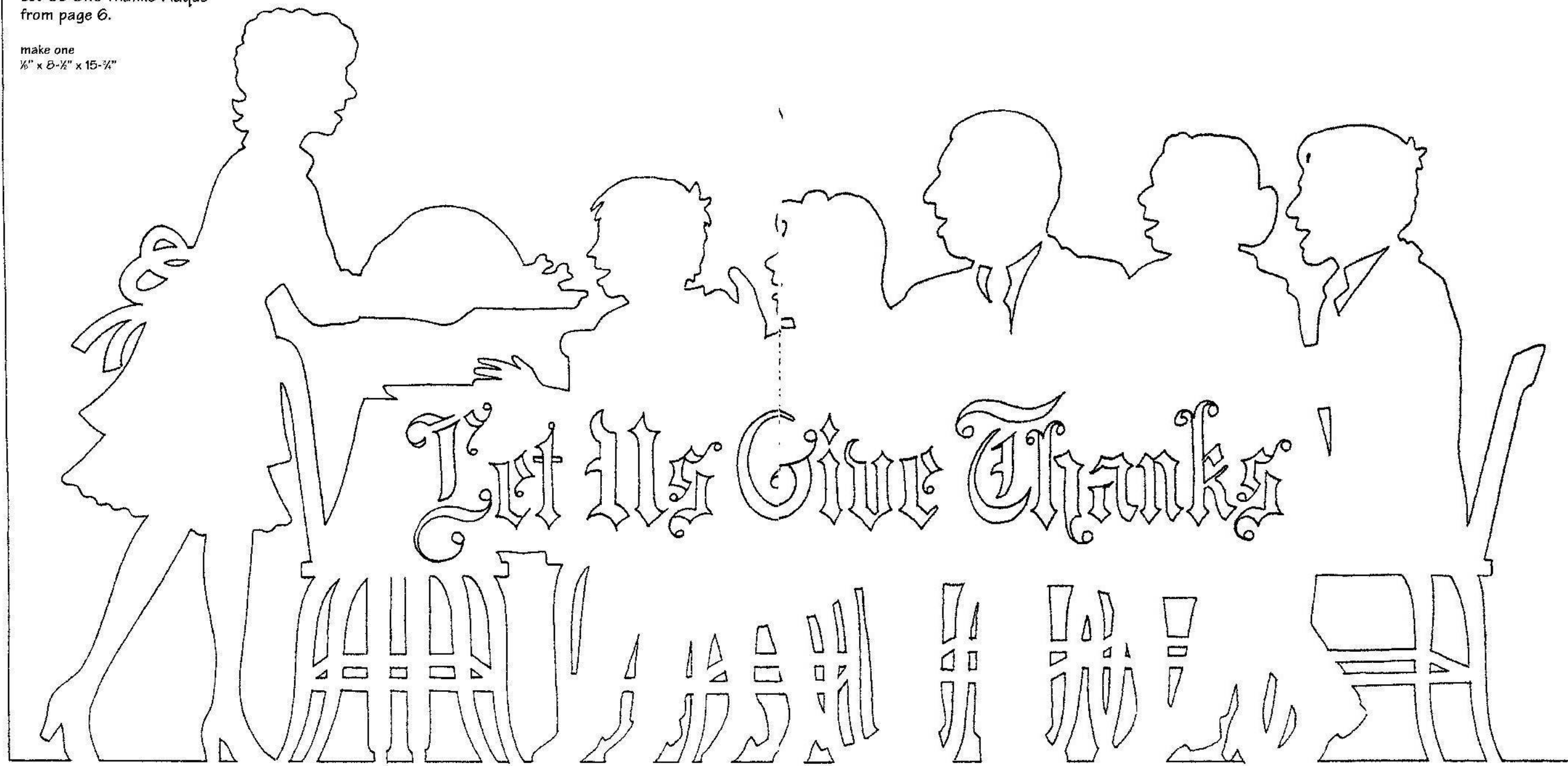


1a

2a

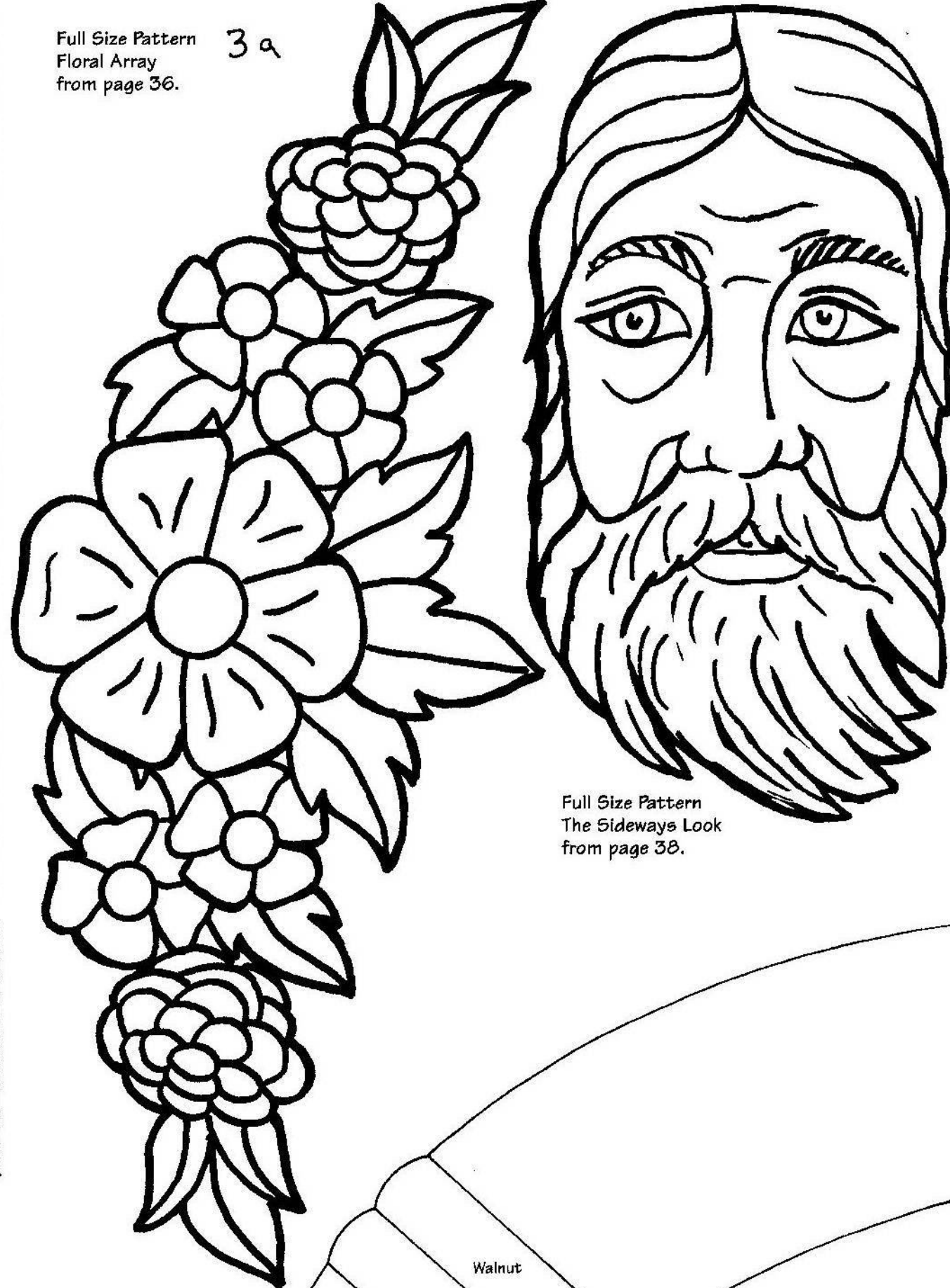
Full Size Pattern
Let Us Give Thanks Plaque
from page 6.

make one
1/2" x 8-1/2" x 15-1/2"

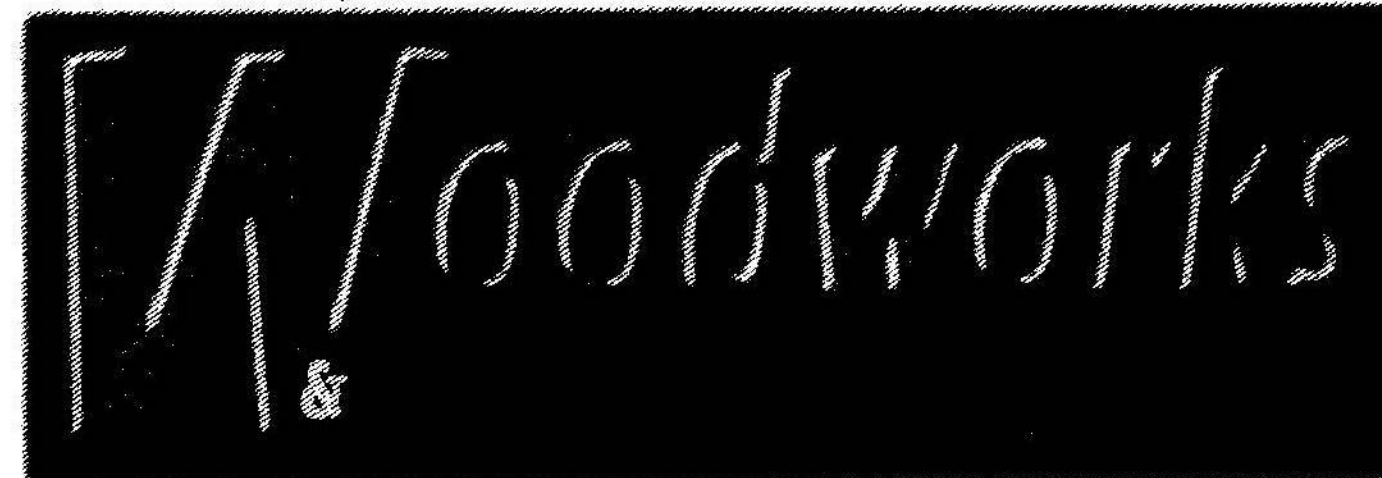


Full Size Pattern
Floral Array
from page 36.

3a



Full Size Pattern
The Sideways Look
from page 38.



FULL SIZE PATTERN SECTION NO. 1 AUGUST 2001

Side A

Let Us Give Thanks Plaque
Piggy Bank
Floral Array
The Sideways Look
Lighthouse

from page 6
from page 22
from page 36
from page 38
from page 50

Side B

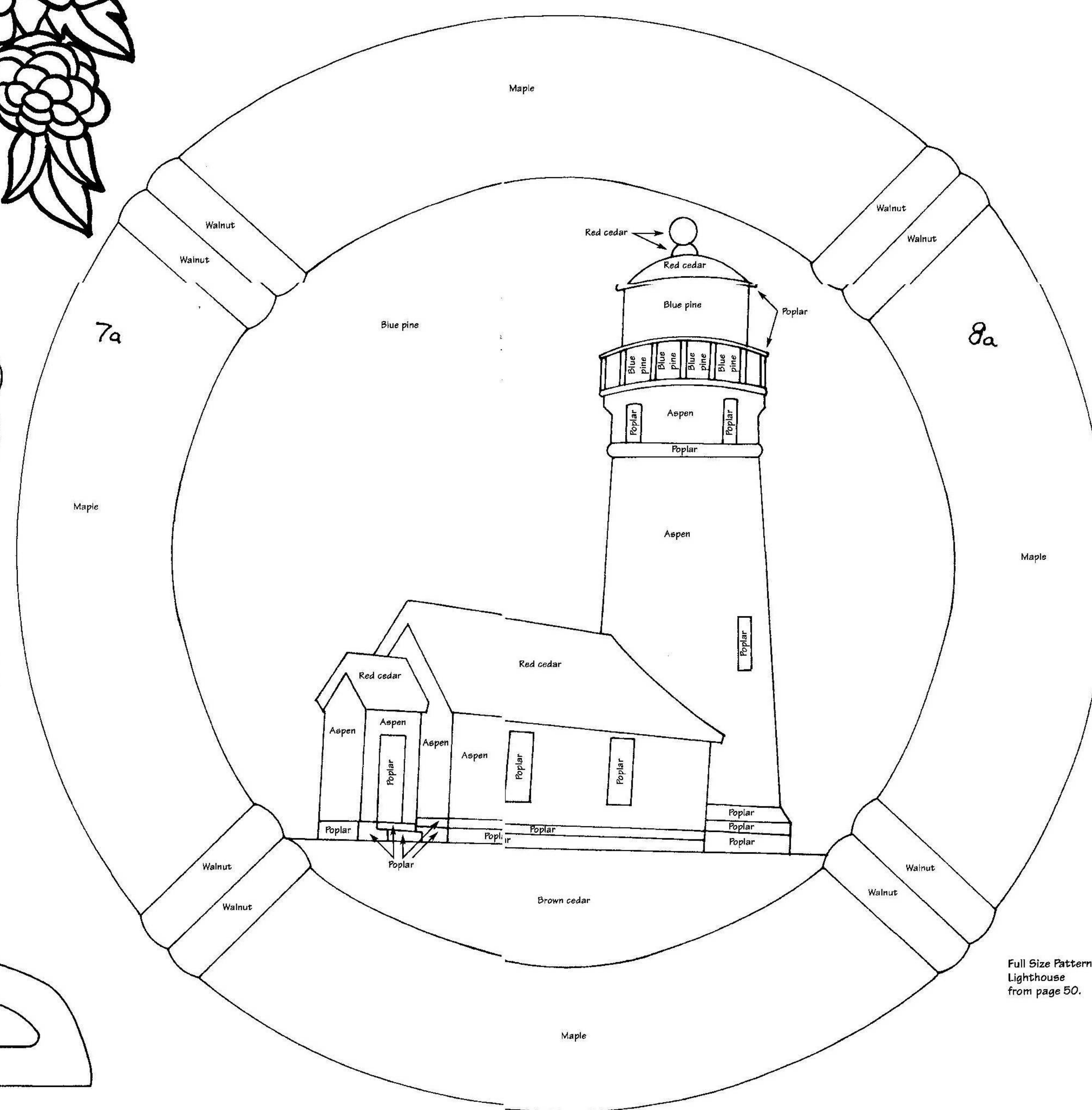
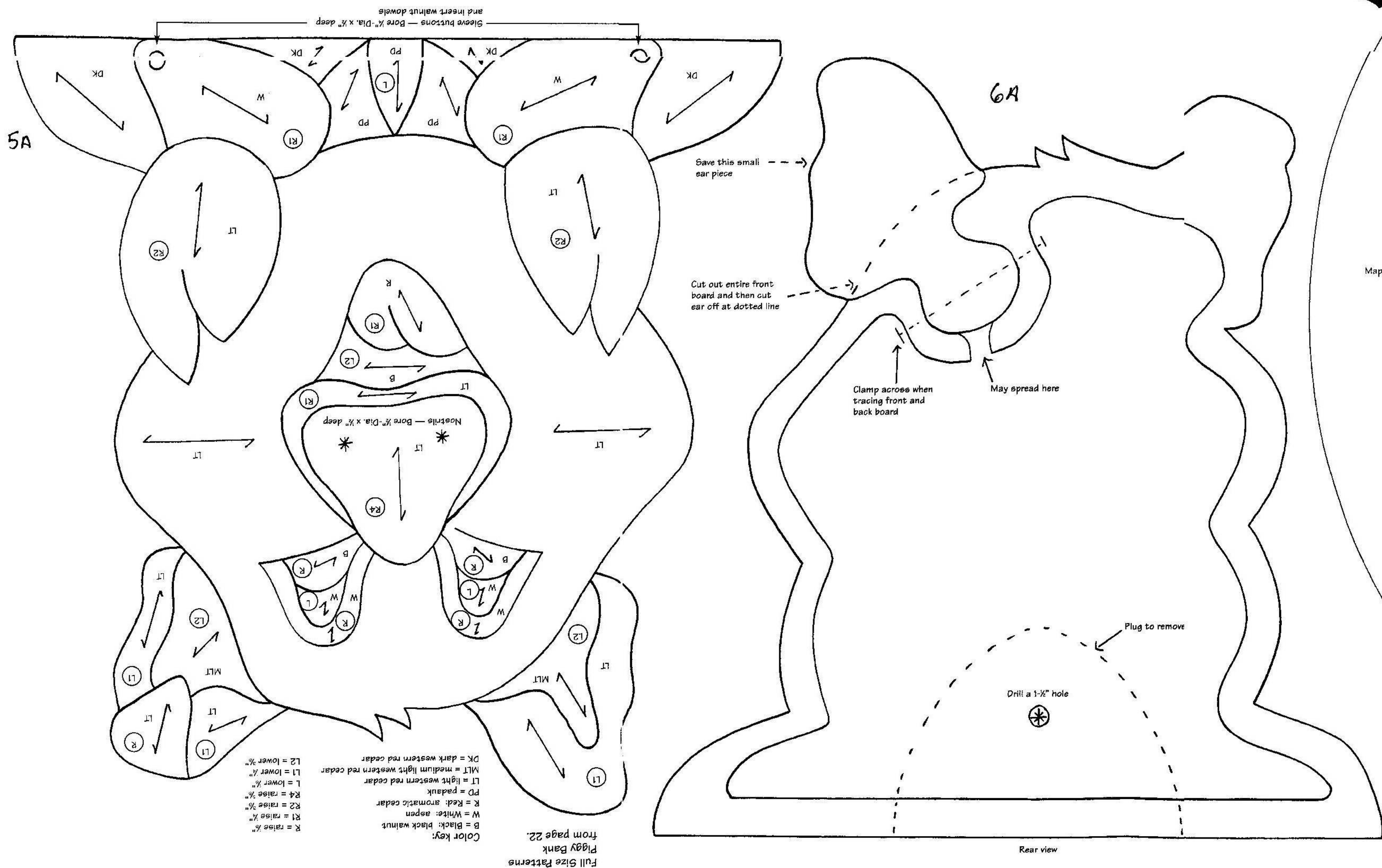
Scrolled Candleholder
Victorian Sleigh
The Pontiac Picnic 2000 Mini Clock No. 5
"Miss Jenny" Bud Vase/Candleholder
Arrowhead Bolo and Buckle
The Pontiac Picnic 2000 Mini Clock No. 1
Pair of Elk

from page 8
from page 14
from page 16
from page 20
from page 26
from page 35
from page 56

Metric Conversions:
1 inch = 25.4mm = 2.54cm = 0.0254m

Common Measurements:

1/16" = 1.59mm	5" = 12.70cm
1/8" = 3.18mm	6" = 15.24cm
1/4" = 6.35mm	7" = 17.78cm
3/8" = 9.53mm	8" = 20.32cm
1/2" = 1.27cm	9" = 22.86cm
5/8" = 1.59cm	10" = 25.40cm
3/4" = 1.91cm	11" = 27.94cm
7/8" = 2.22cm	12" = 30.48cm
1" = 2.54cm	24" = 60.96cm
2" = 5.08cm	36" = 91.44cm
3" = 7.62cm	45" = 1.14m
4" = 10.16cm	60" = 1.52m



Full Size Pattern
Lighthouse
from page 50.

Full Size Pattern
Let Us Give Thanks Plaque
from page 6.

make one
1/8" x 8-1/2" x 15-3/4"



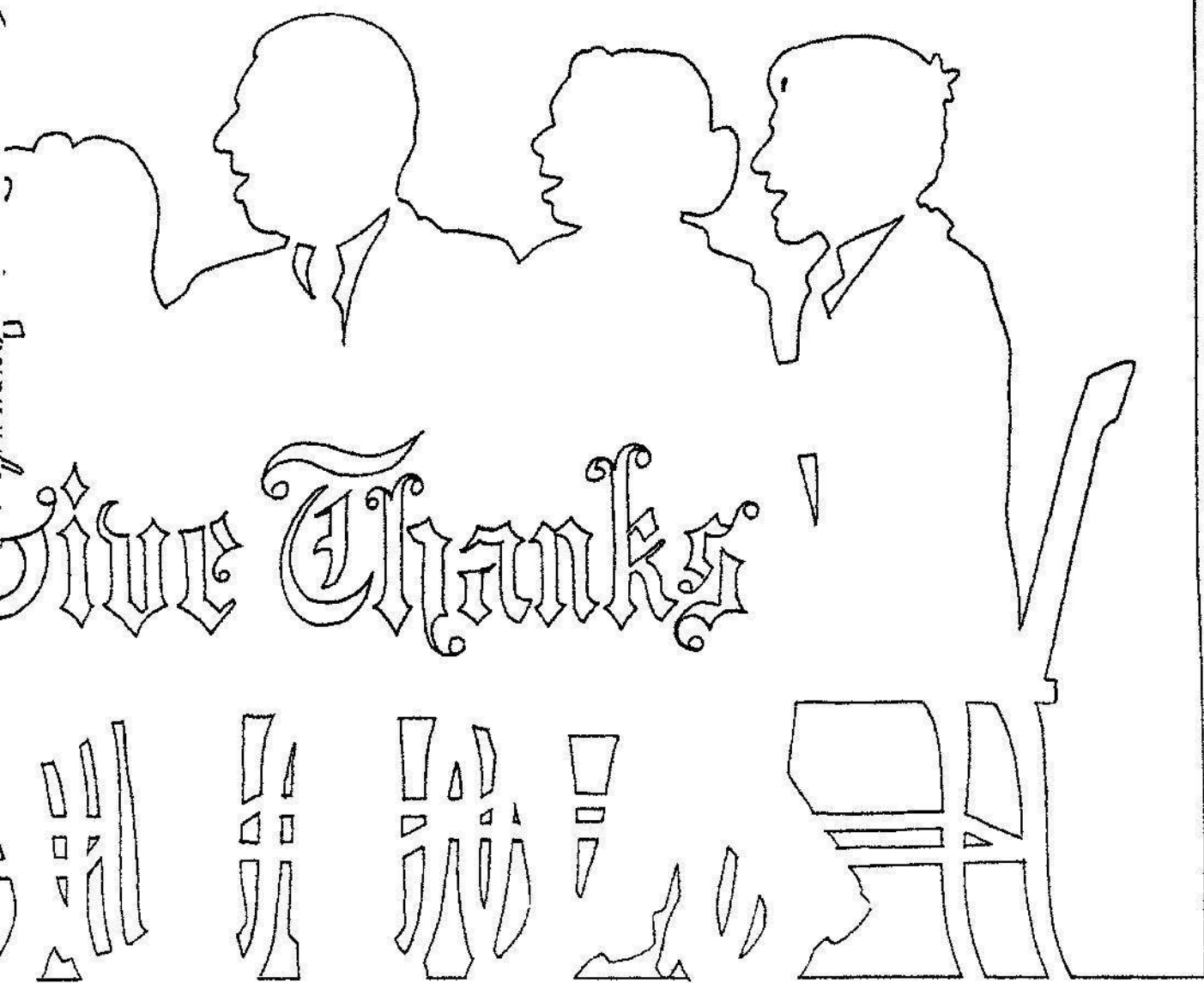
Sleeve buttons — Bore 1/8" Dia. x 1/2" deep
and insert walnut dowels

DK

PD

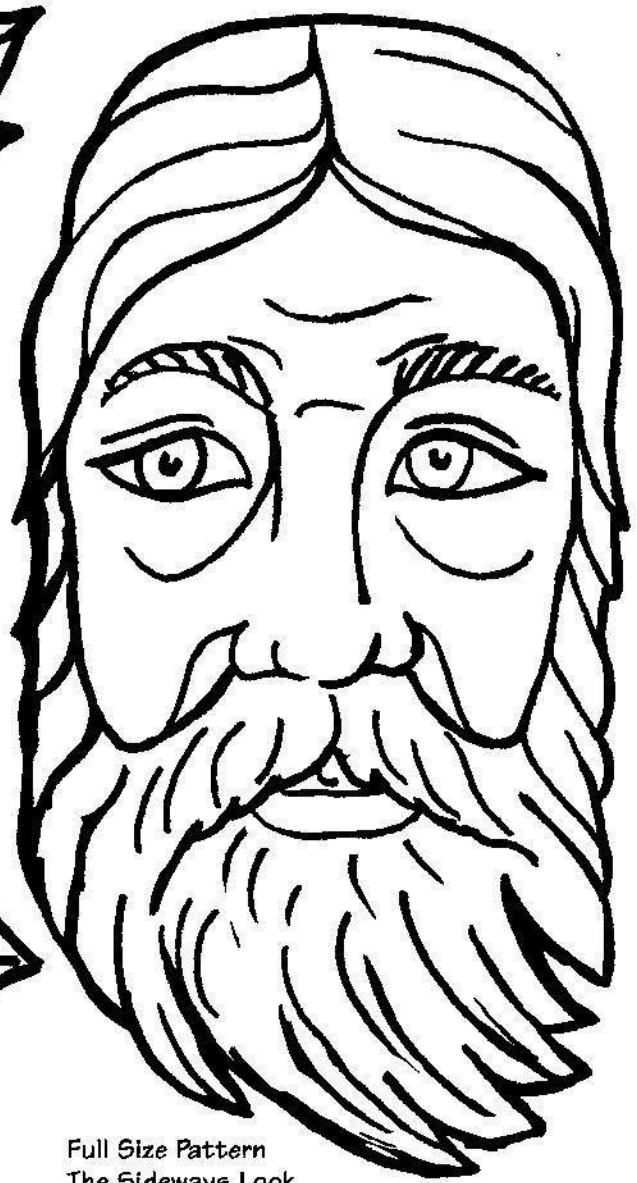
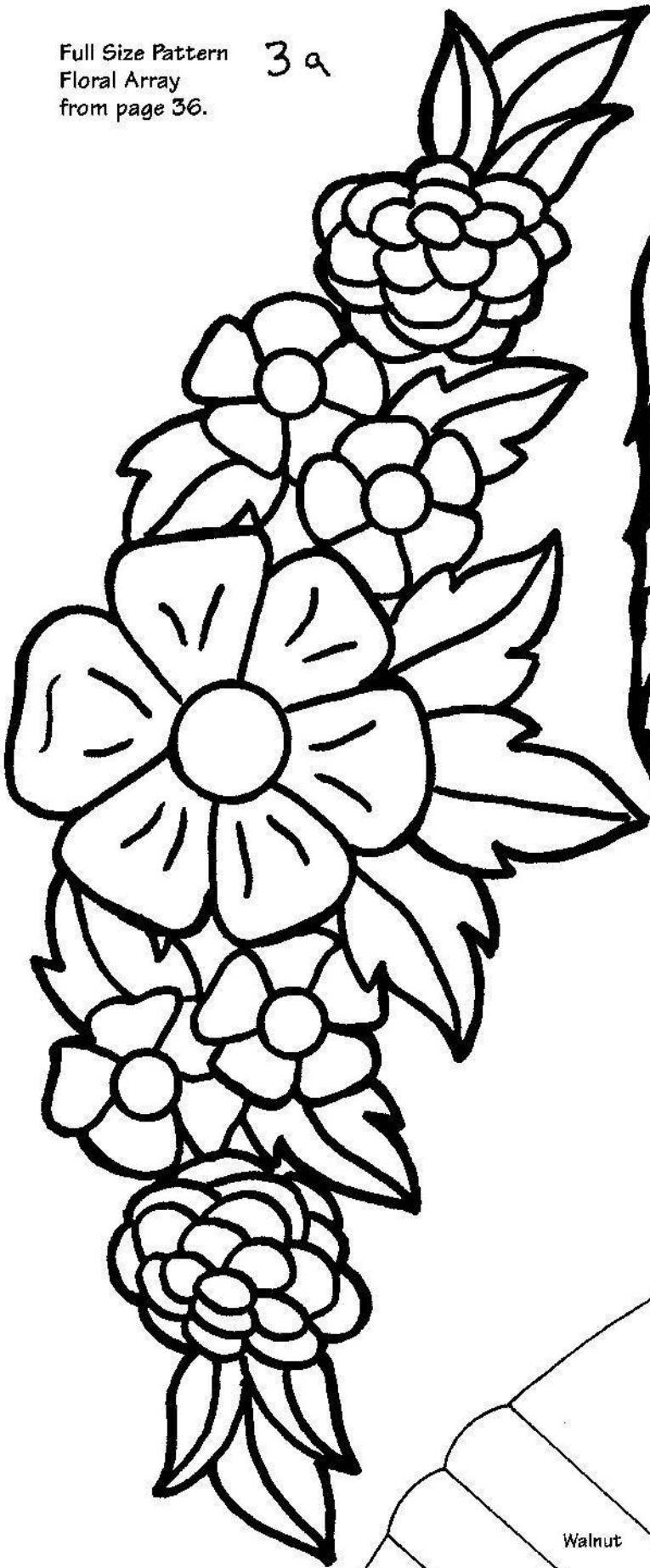
DK

V

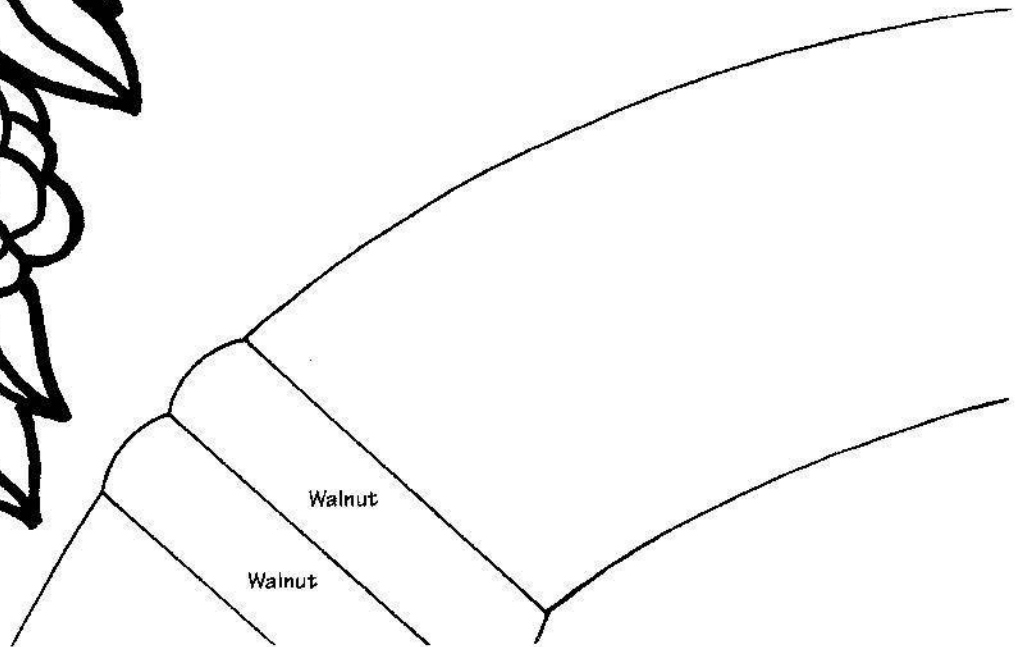


Full Size Pattern
Floral Array
from page 36.

3 a



Full Size Pattern
The Sideways Look
from page 38.



Walnut

Walnut

Woodworks

FULL SIZE PATTERN SECTION NO. 1 AUGUST 2001

Side A

Let Us Give Thanks Plaque	from page 6
Piggy Bank	from page 22
Floral Array	from page 36
The Sideways Look	from page 38
Lighthouse	from page 50

Side B

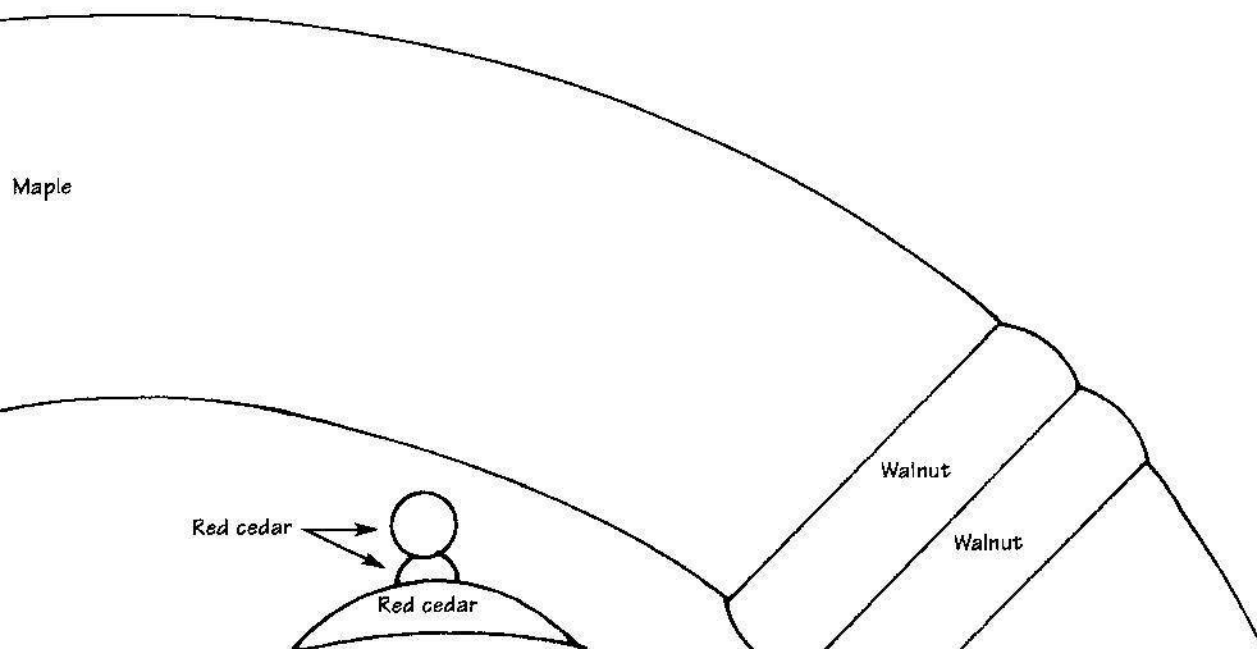
Scrolled Candleholder	from page 8
Victorian Sleigh	from page 14
The Pontiac Picnic 2000 Mini Clock No. 5	from page 16
"Miss Jenny" Bud Vase/Candleholder	from page 20
Arrowhead Bolo and Buckle	from page 26
The Pontiac Picnic 2000 Mini Clock No. 1	from page 35
Pair of Elk	from page 56

Metric Conversions:

1 inch = 25.4mm = 2.54cm = 0.0254m

Common Measurements:

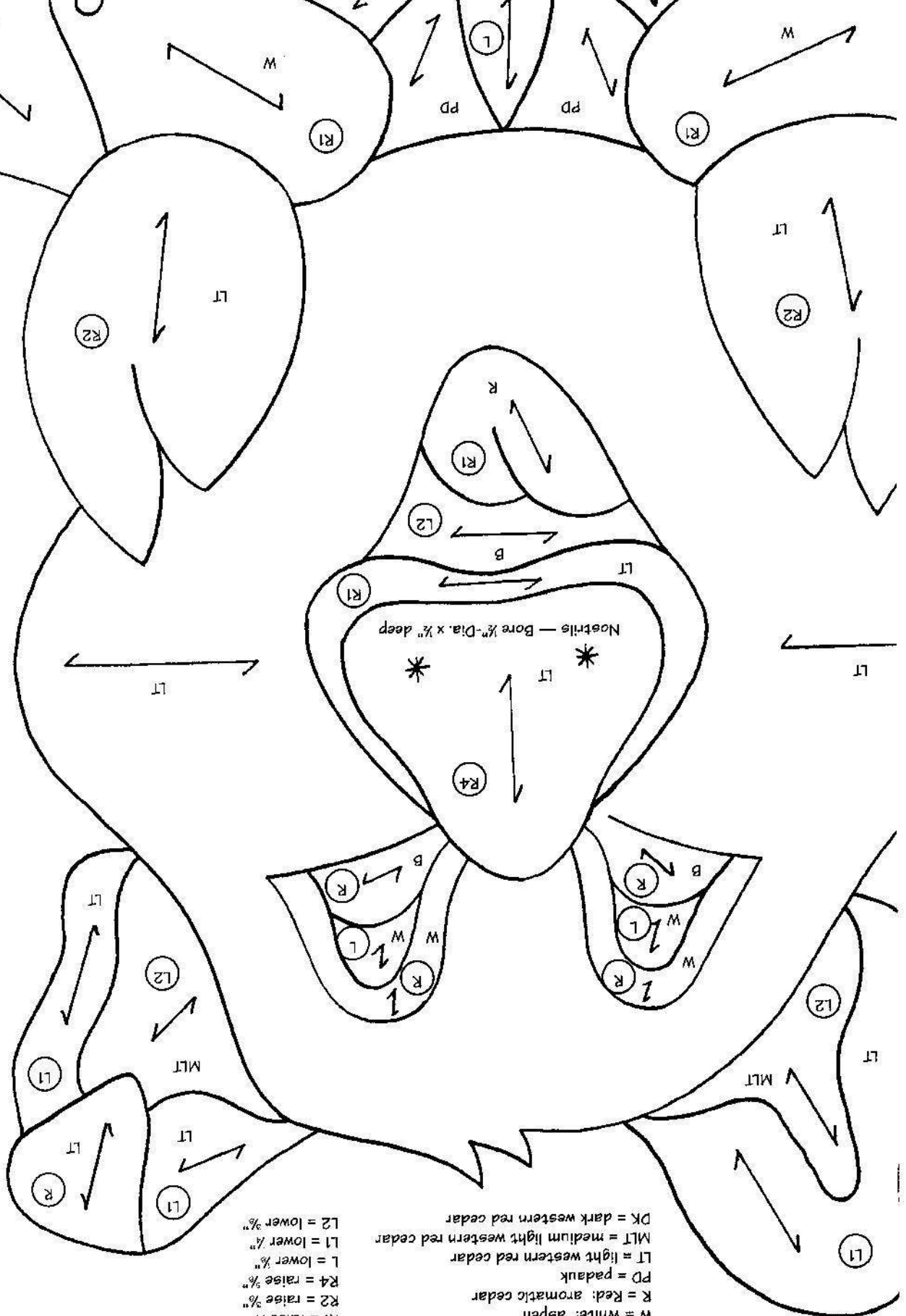
1/16" = 1.59mm	5" = 12.70cm
1/8" = 3.18mm	6" = 15.24cm
1/4" = 6.35mm	7" = 17.78cm
3/8" = 9.53mm	8" = 20.32cm
1/2" = 1.27cm	9" = 22.86cm
5/8" = 1.59cm	10" = 25.40cm
3/4" = 1.91cm	11" = 27.94cm
7/8" = 2.22cm	12" = 30.48cm
1" = 2.54cm	24" = 60.96cm
2" = 5.08cm	36" = 91.44cm
3" = 7.62cm	45" = 1.14m
4" = 10.16cm	60" = 1.52m



Full Size Patterns
Piggy Bank
from page 22.

Color key:
B = Black: black walnut
W = White: aspen
R = Red: aromatic cedar
PD = padauk
LT = light western red cedar
MLT = medium light western red cedar
DK = dark western red cedar

R = raise $\frac{1}{8}$ "
R1 = raise $\frac{1}{4}$ "
R2 = raise $\frac{3}{8}$ "
R4 = raise $\frac{1}{2}$ "
L = lower $\frac{1}{8}$ "
L1 = lower $\frac{1}{4}$ "
L2 = lower $\frac{3}{8}$ "



5A

6A

30

Save this small
ear piece

Cut out entire front
board and then cut
ear off at dotted line

Clamp across when
tracing front and
back board

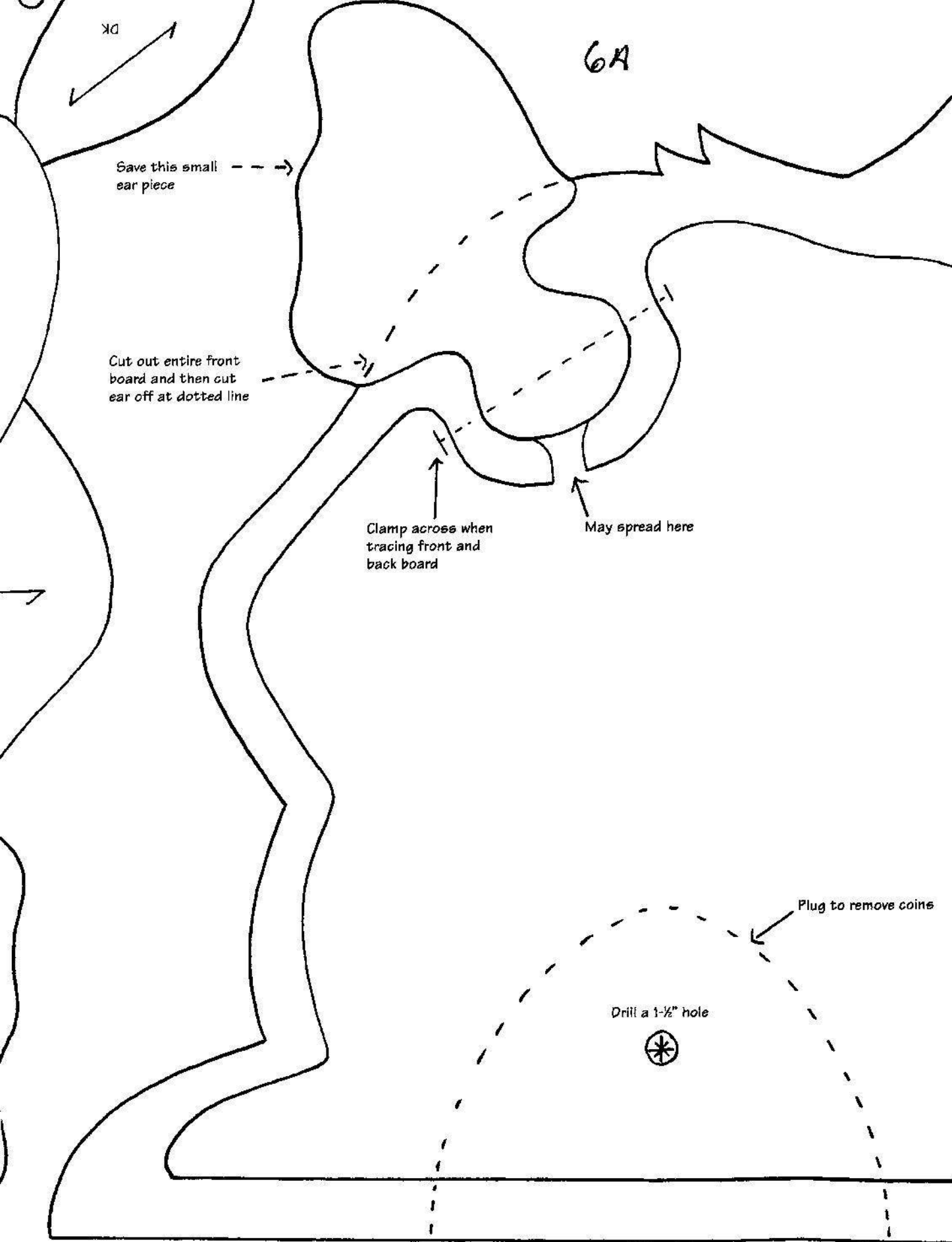
May spread here

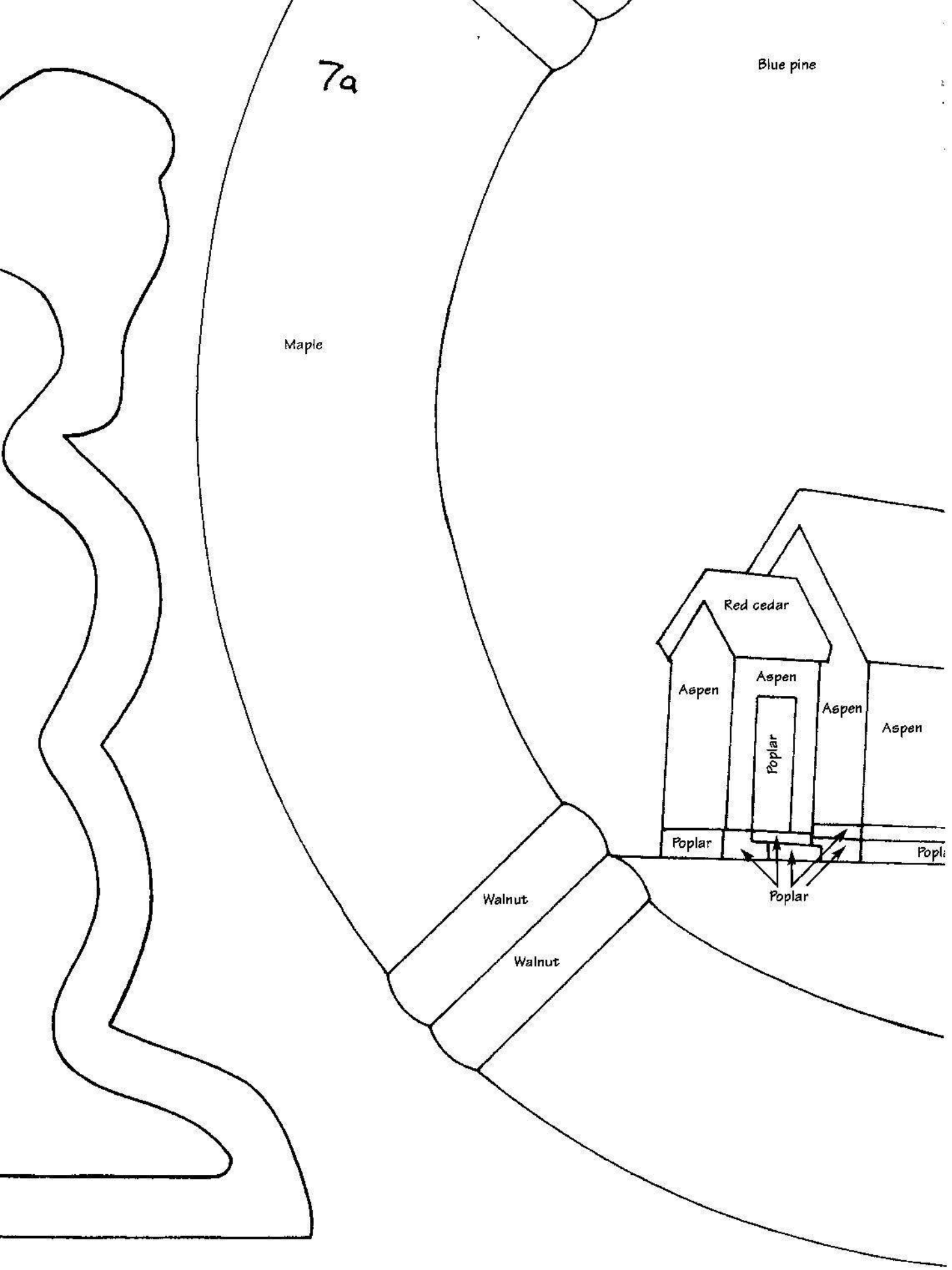
Plug to remove coins

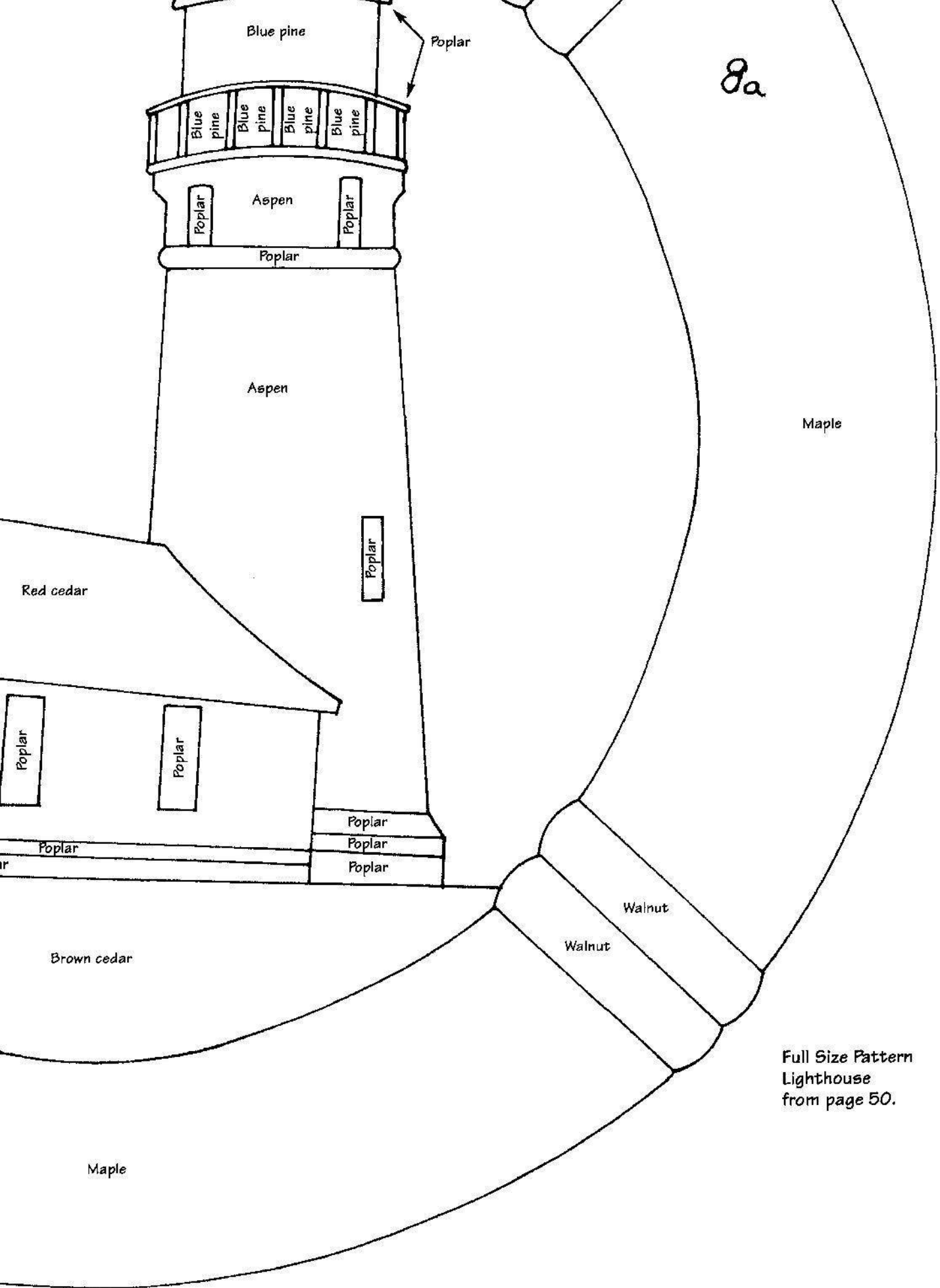
Drill a 1-1/2" hole



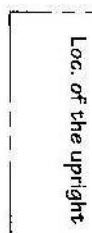
Rear view







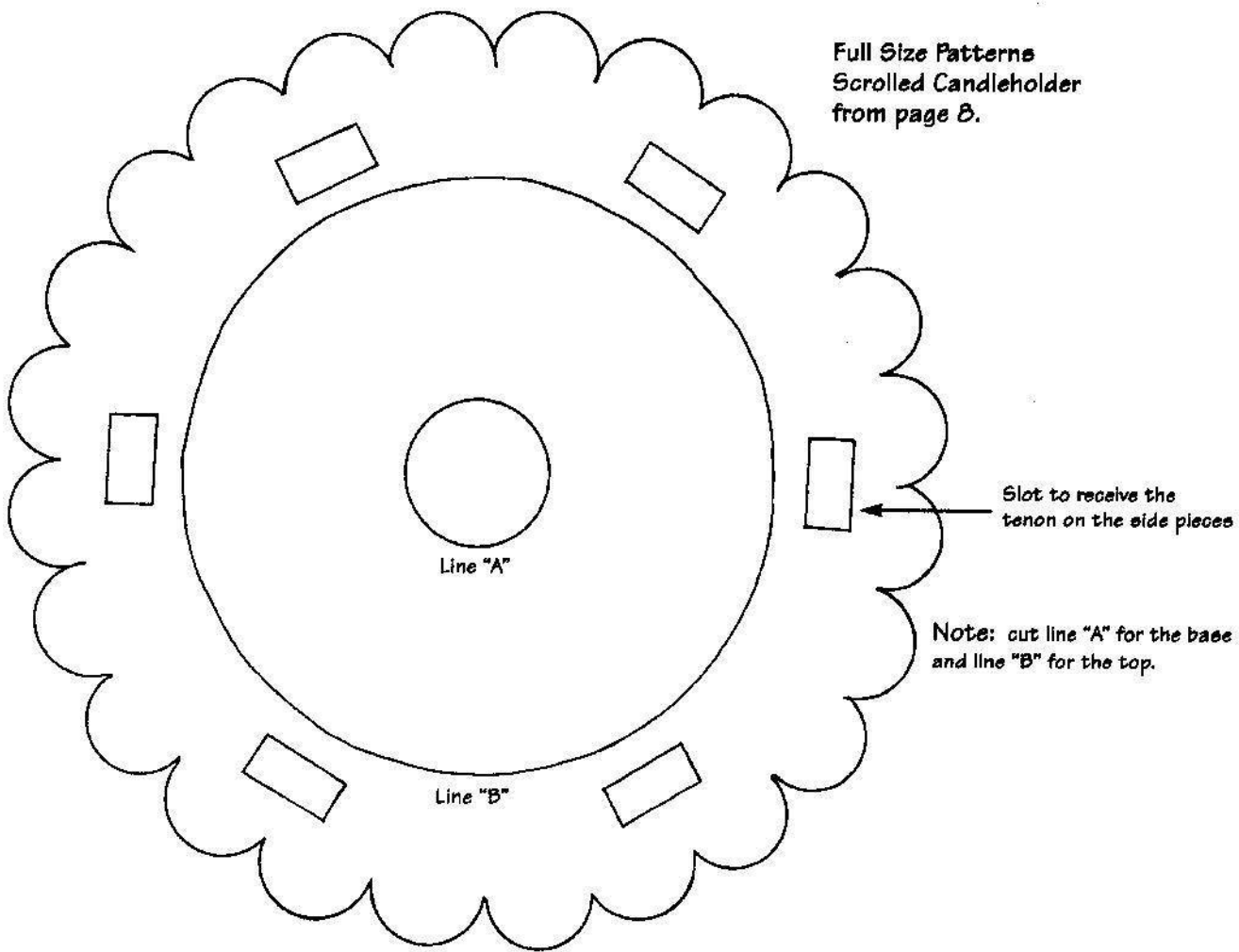
Full Size Pattern
Lighthouse
from page 50.



16

Full Size Patterns
Scrolled Candleholder
from page 8.

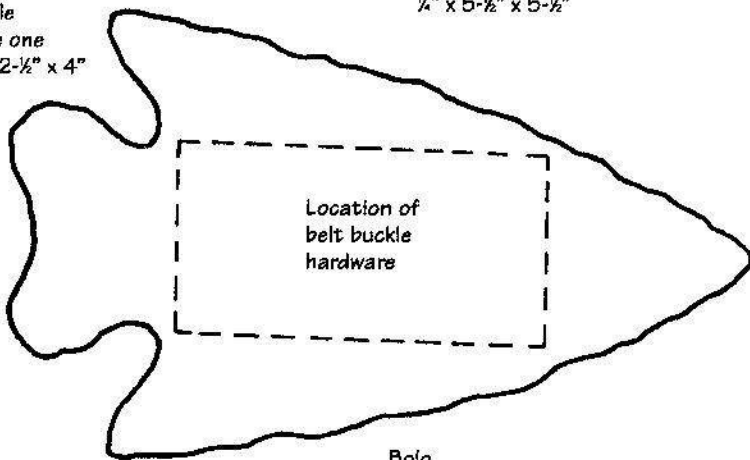
Tenon
into



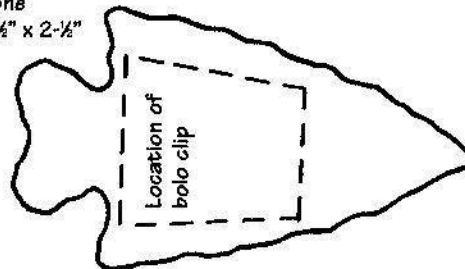
Note: cut line "A" for the base
and line "B" for the top.

Top and Base
make two
 $\frac{1}{4}$ " x $5\frac{1}{2}$ " x $5\frac{1}{2}$ "

Buckle
make one
 $\frac{3}{8}$ " x $2\frac{1}{2}$ " x 4"

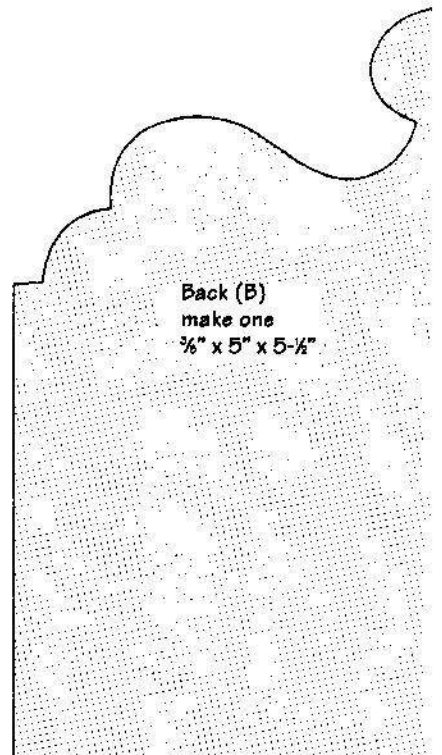


Bolo
make one
 $\frac{3}{8}$ " x $1\frac{1}{2}$ " x $2\frac{1}{2}$ "



Full Size Patterns
Arrowhead Bolo and Buckle
from page 26.

Back (B)
make one
 $\frac{3}{8}$ " x 5" x $5\frac{1}{2}$ "

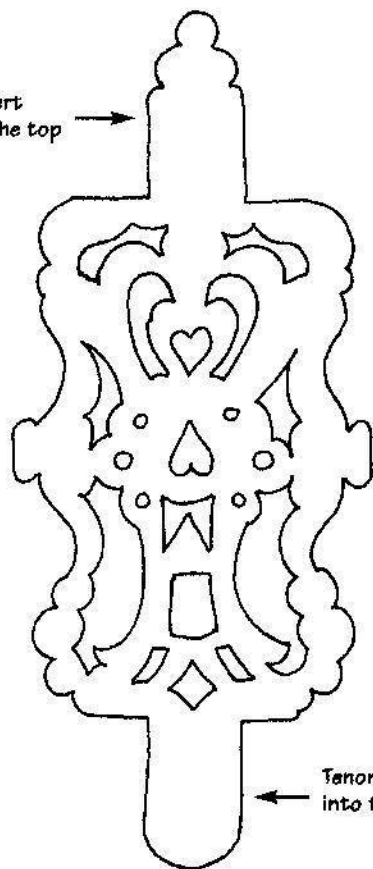


26

Side Piece
make six
 $\frac{1}{4}$ " x 2" x $4\frac{1}{2}$ "

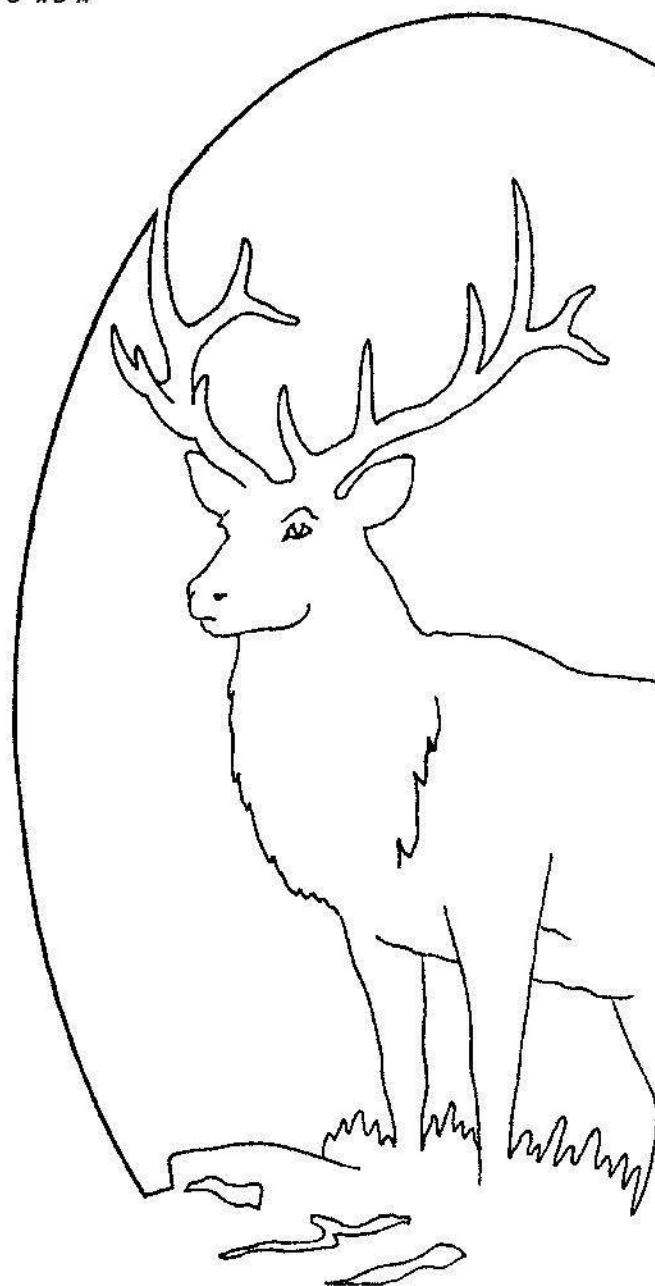
Full Size Patterns
Pair of Elk
from page 56.

to insert
slot in the top



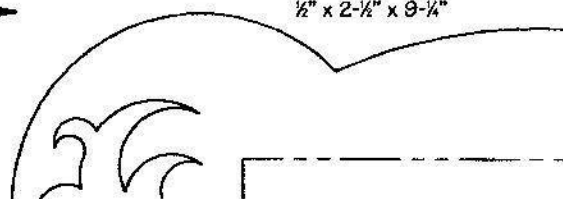
Tenon to insert
into the base

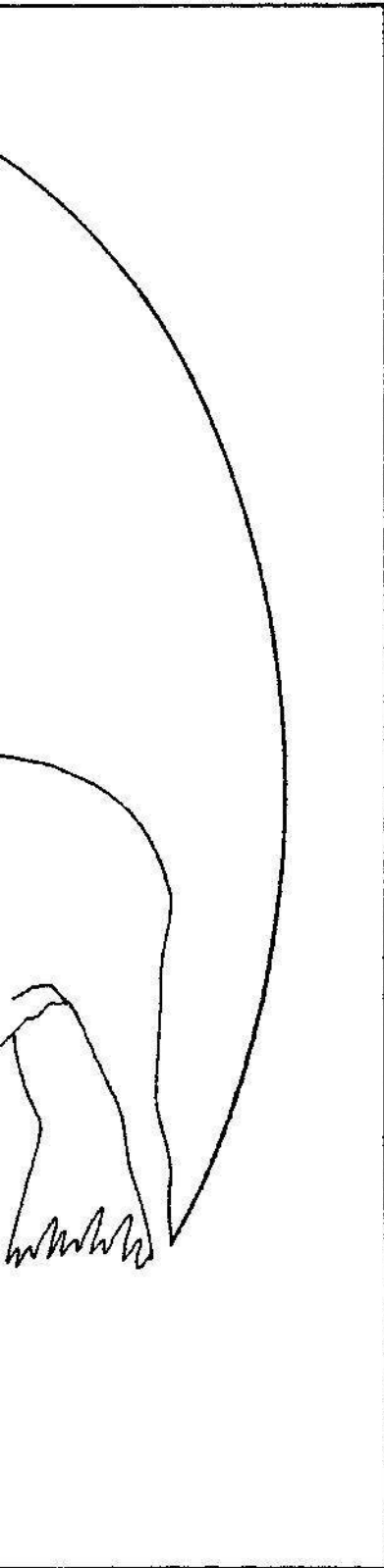
make one
 $\frac{1}{4}$ " x 6" x $8\frac{1}{4}$ "



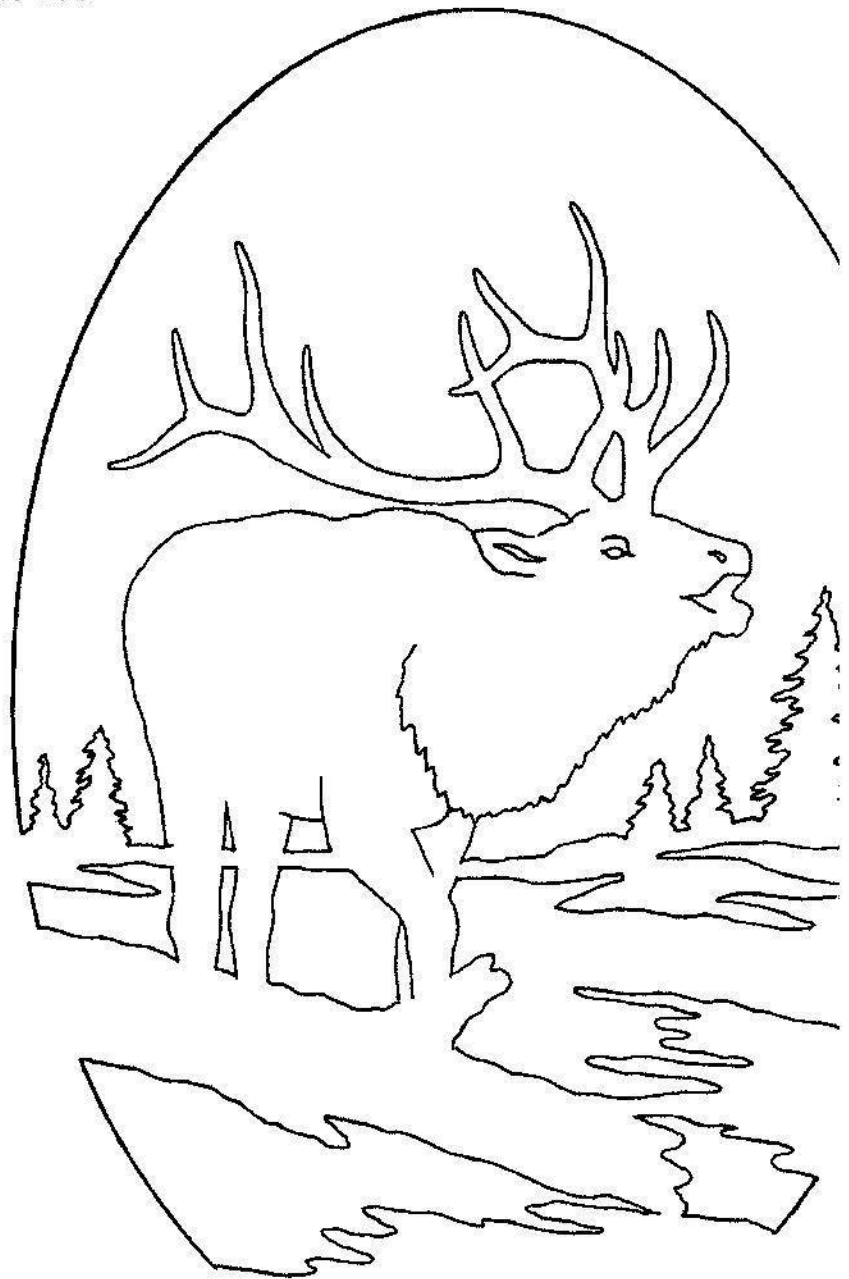
Line up with edges of wood

Base
make one
 $\frac{1}{2}$ " x $2\frac{1}{2}$ " x $9\frac{1}{4}$ "

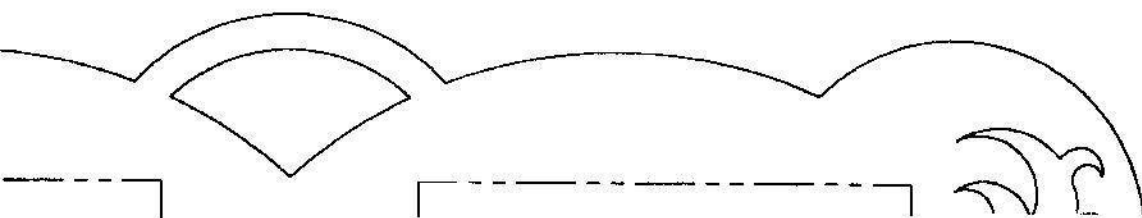


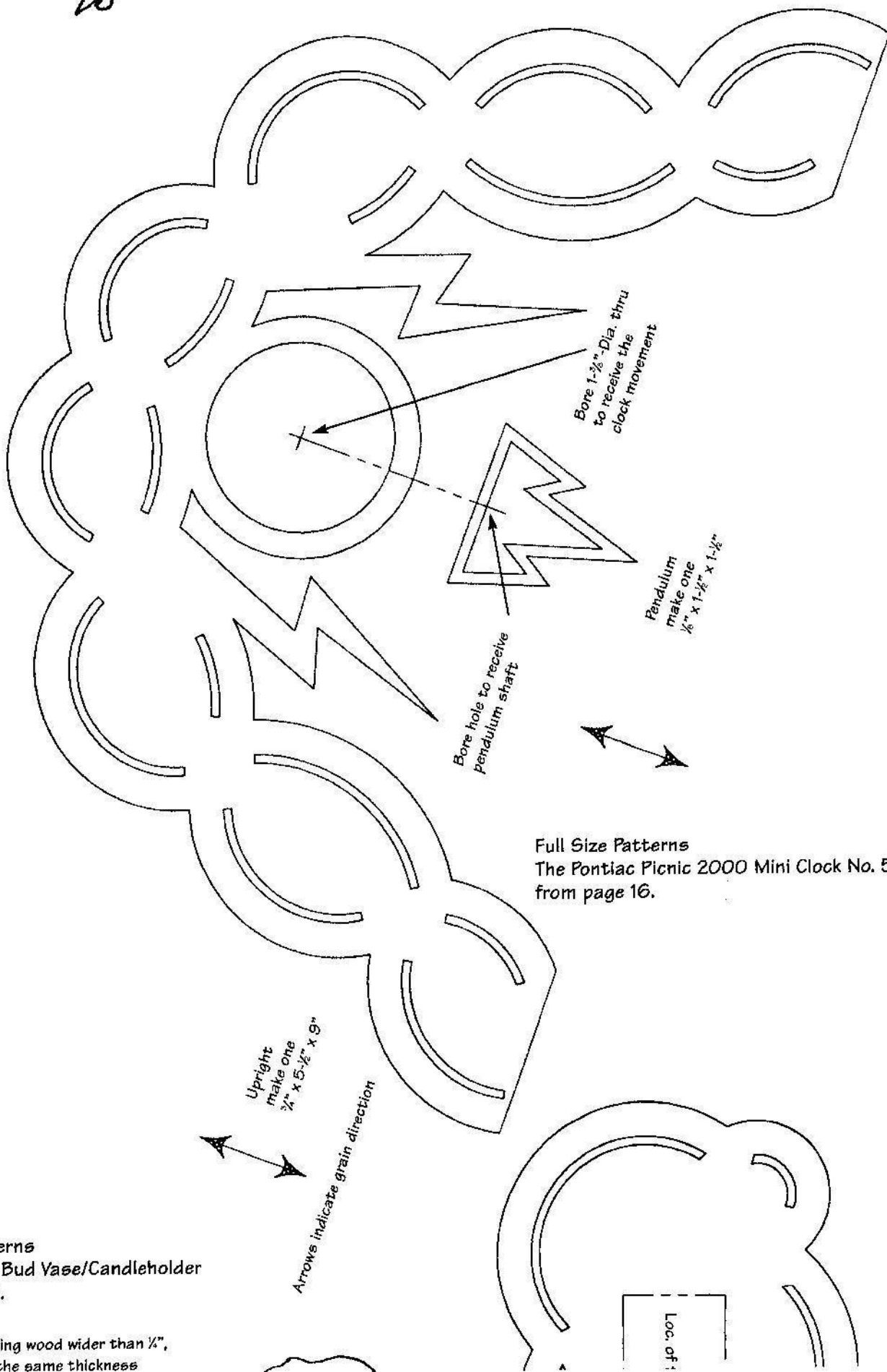


make one
 $\frac{1}{4}$ " x 6" x 8- $\frac{1}{4}$ "



Line up with edges of wood



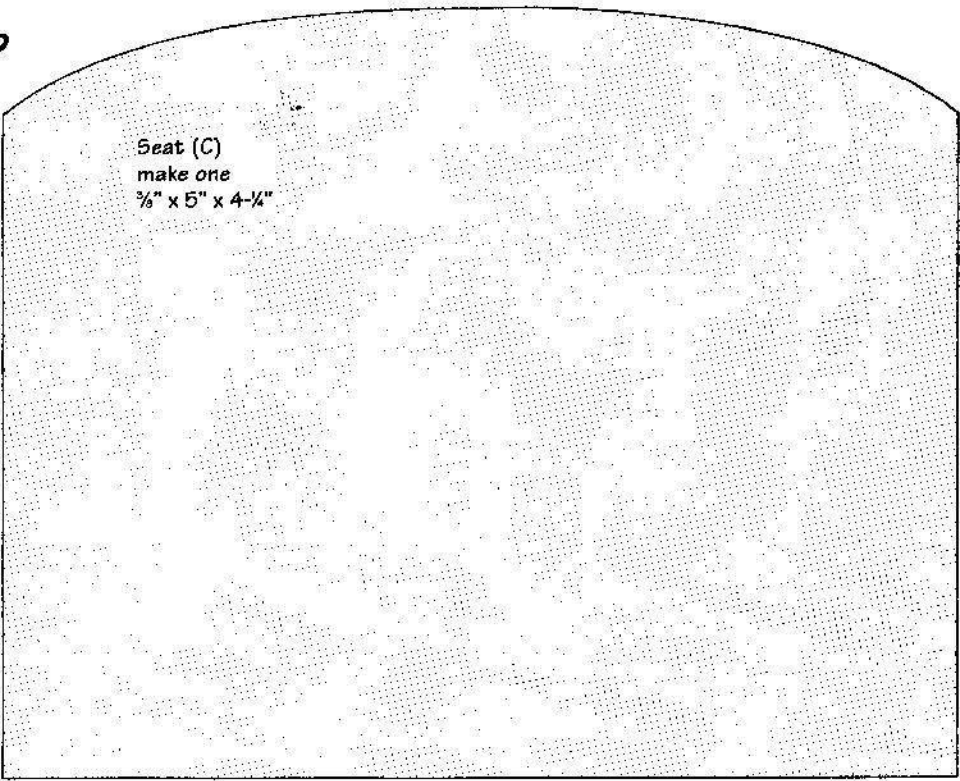


Full Size Patterns
"Miss Jenny" Bud Vase/Candleholder
from page 20.

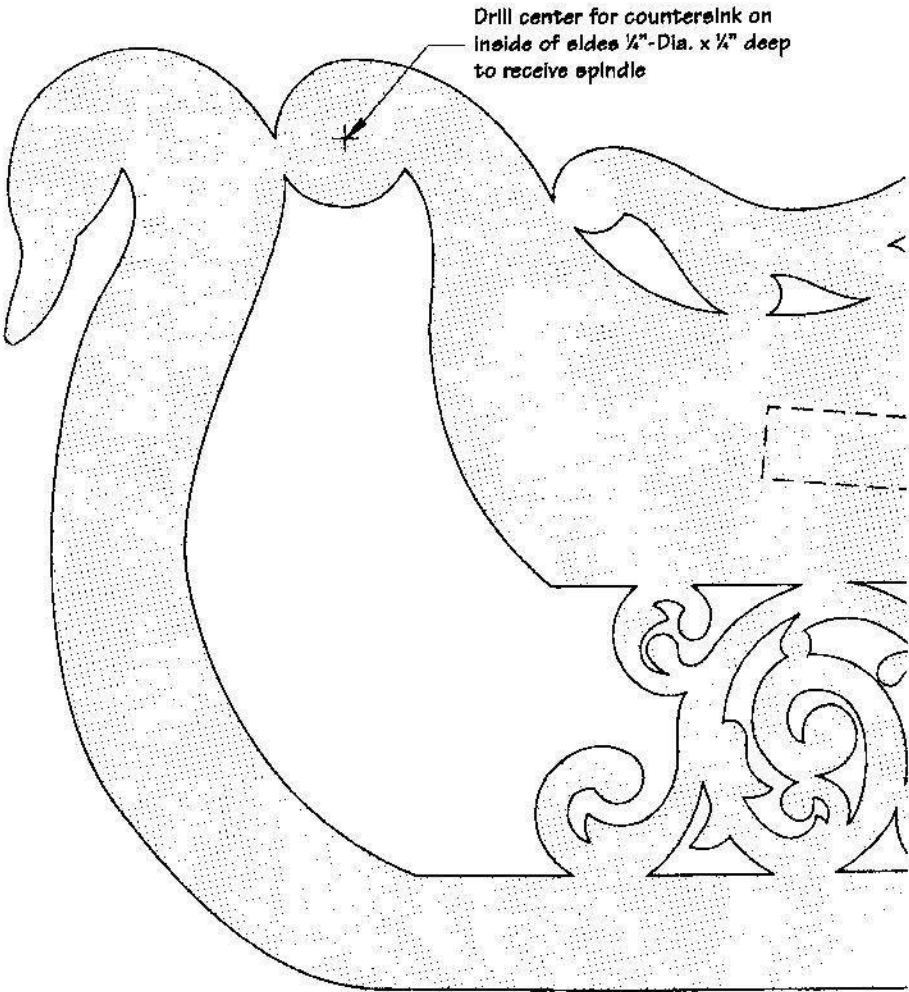
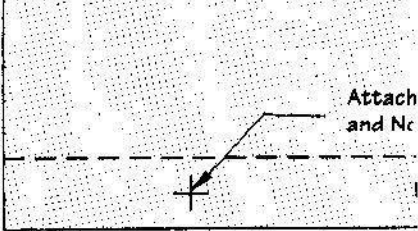
Note: If using wood wider than 1/4",
make slots the same thickness

Full Size Patterns
The Pontiac Picnic 2000 Mini Clock No. 5
from page 16.

5b



Seat (C)
make one
1/2" x 5" x 4-1/4"



Drill center for countersink on
inside of elbow 1/2"-Dia. x 1/4" deep
to receive spindle

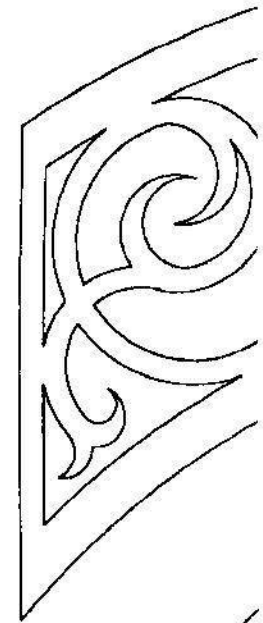
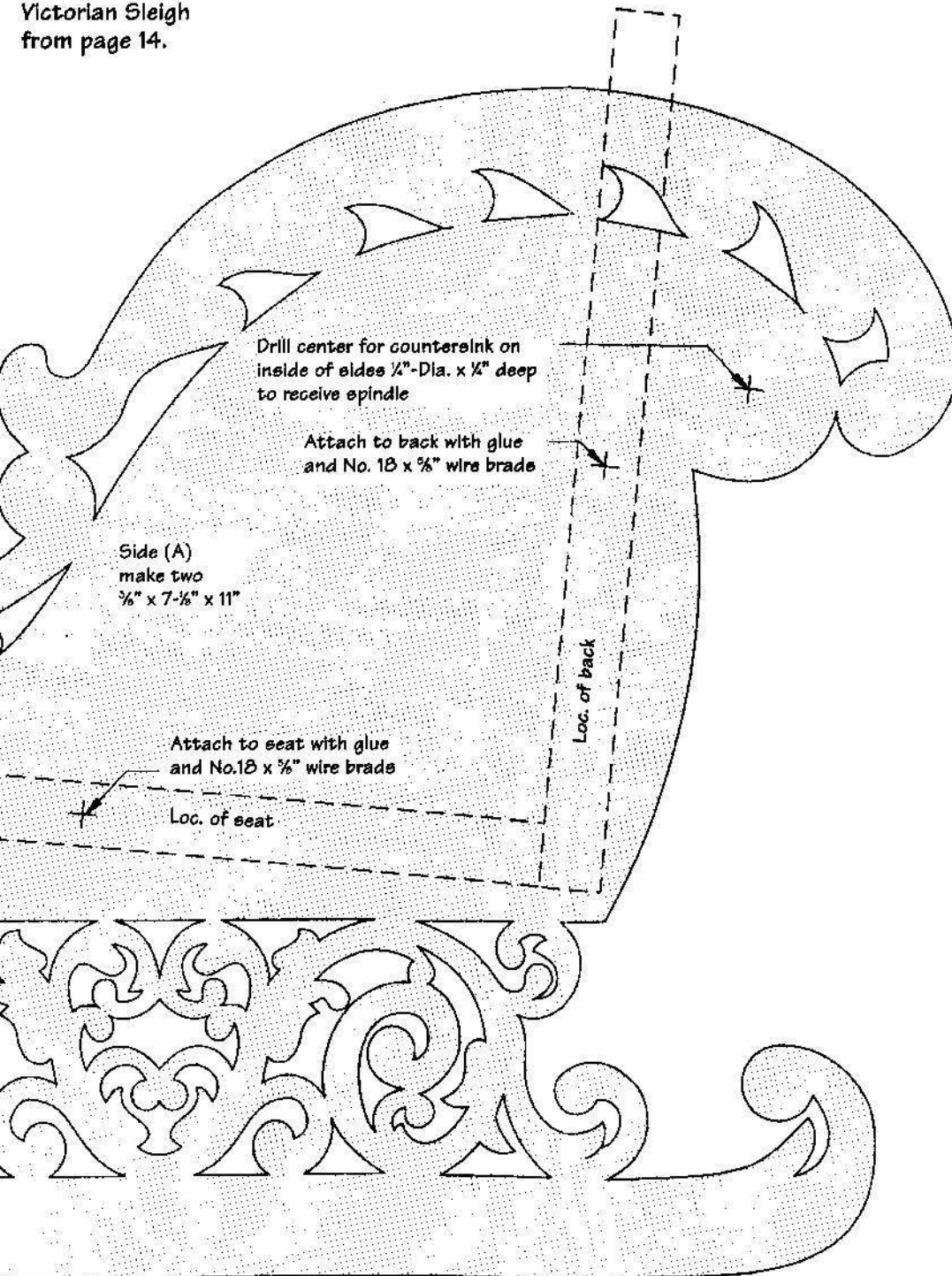
to seat with glue
18 x $\frac{1}{8}$ " wire brads

Loc. of seat

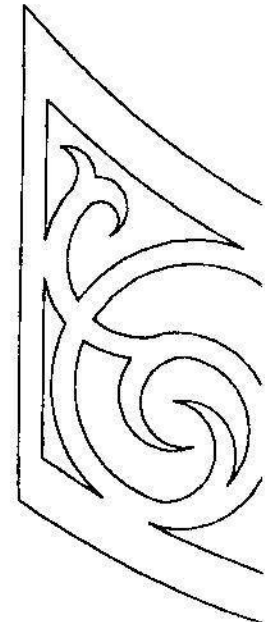


Full Size Patterns
The Pontiac Picnic 2000 Mini Clock No. 1
from page 35.

Full Size Patterns
Victorian Sleigh
from page 14.

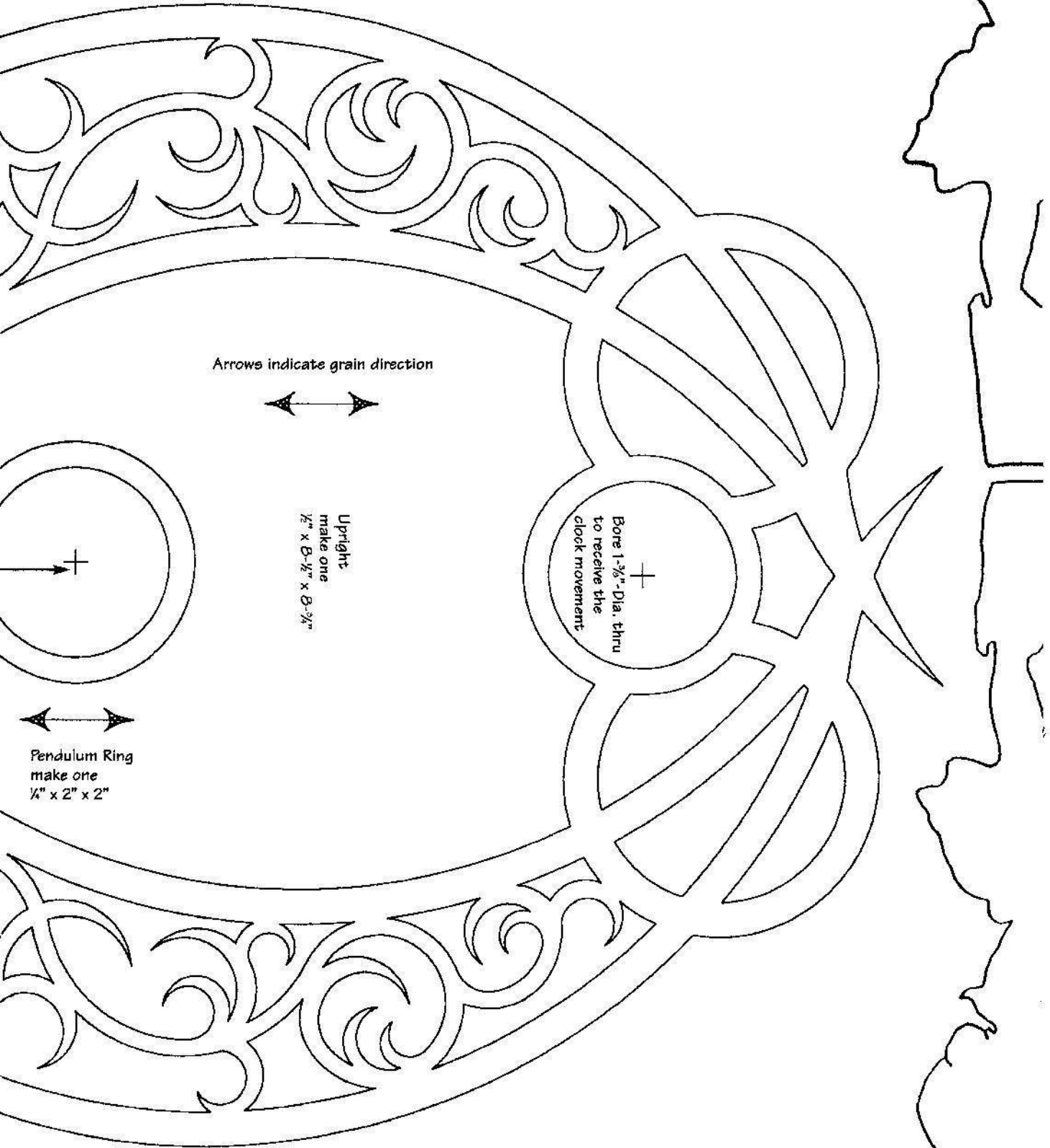


Bore 1- $\frac{3}{8}$ "-Dia. thru
to receive the
pendulum drive unit



Loc. of the upright

7b



Arrows indicate grain direction



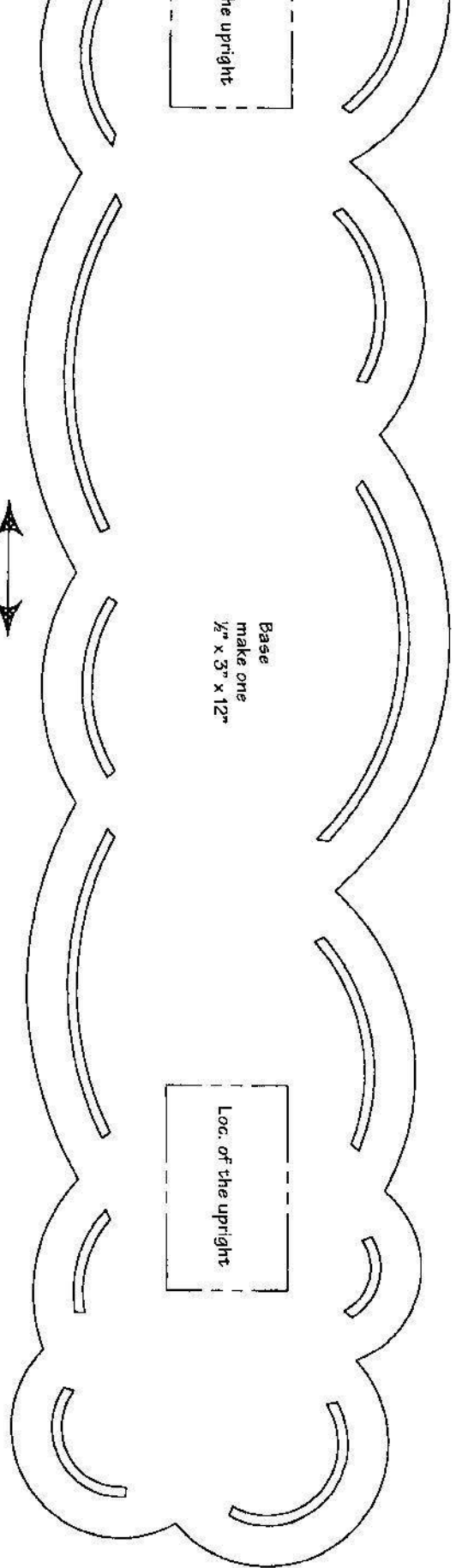
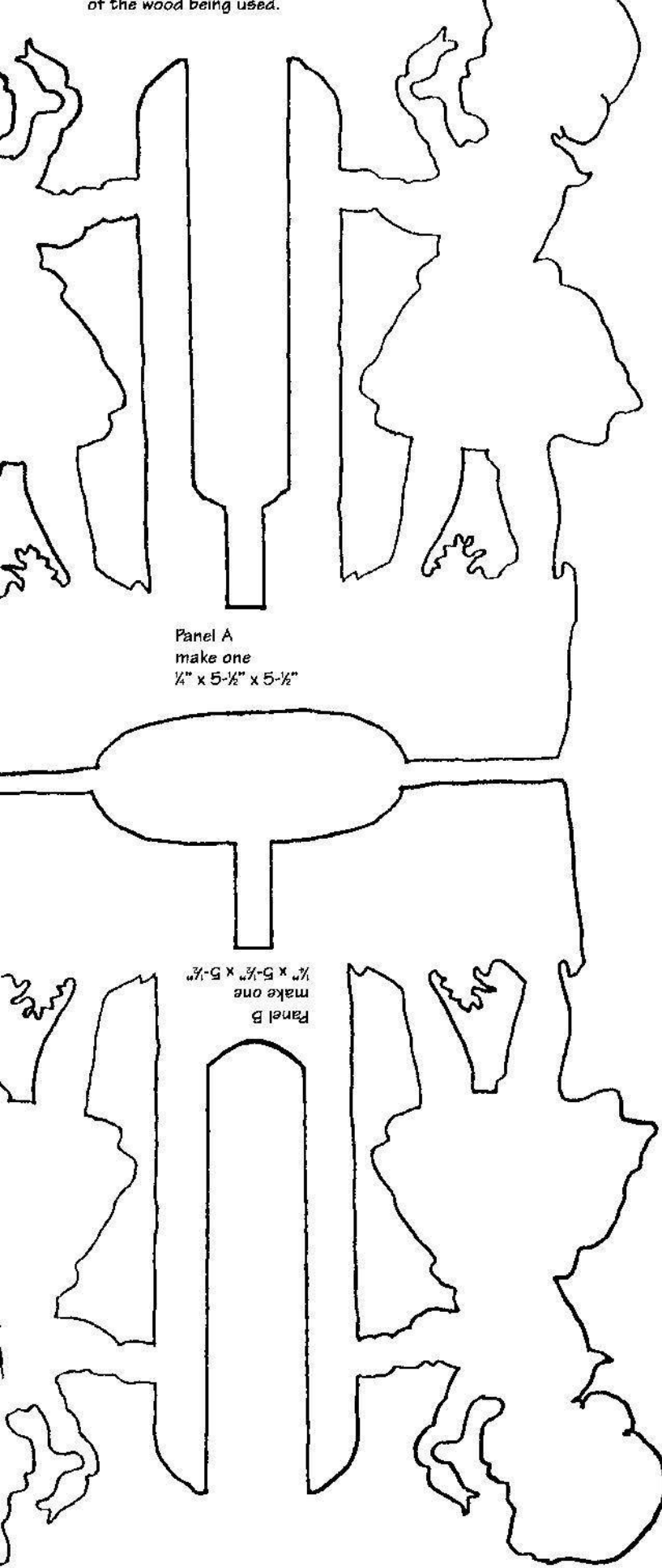
Upright
make one
1/2\" x 8-1/2\" x 8-3/4\"

Bore 1-3/4\" Dia. thru
to receive the
clock movement



Pendulum Ring
make one
1/4\" x 2\" x 2\"

86



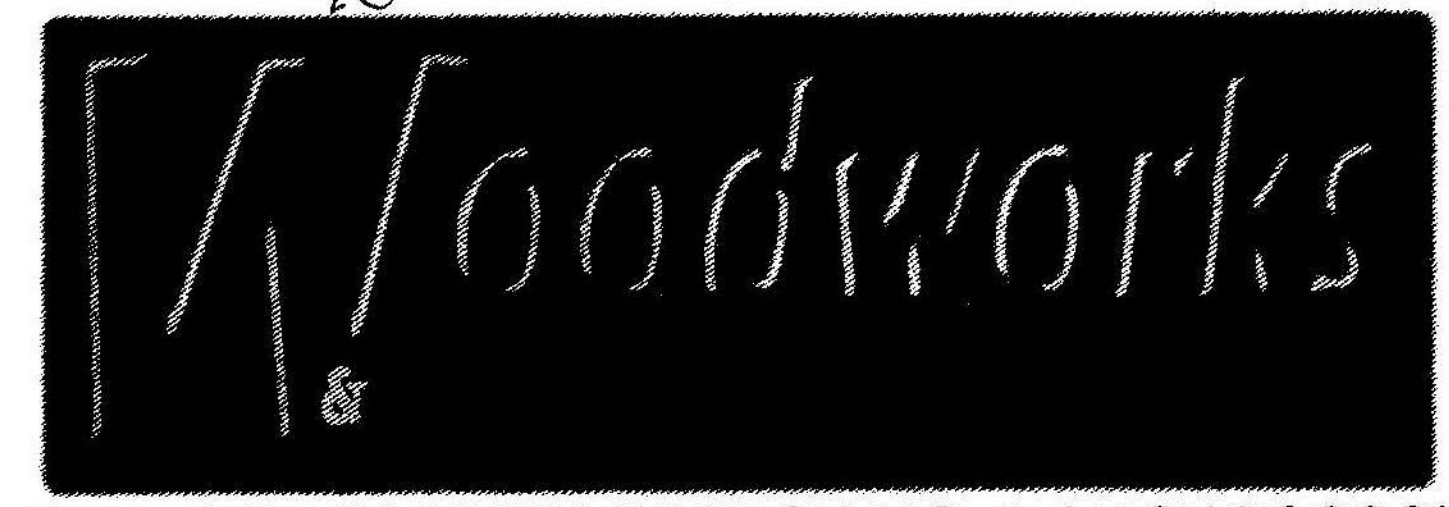
1c

2c

3c

4c

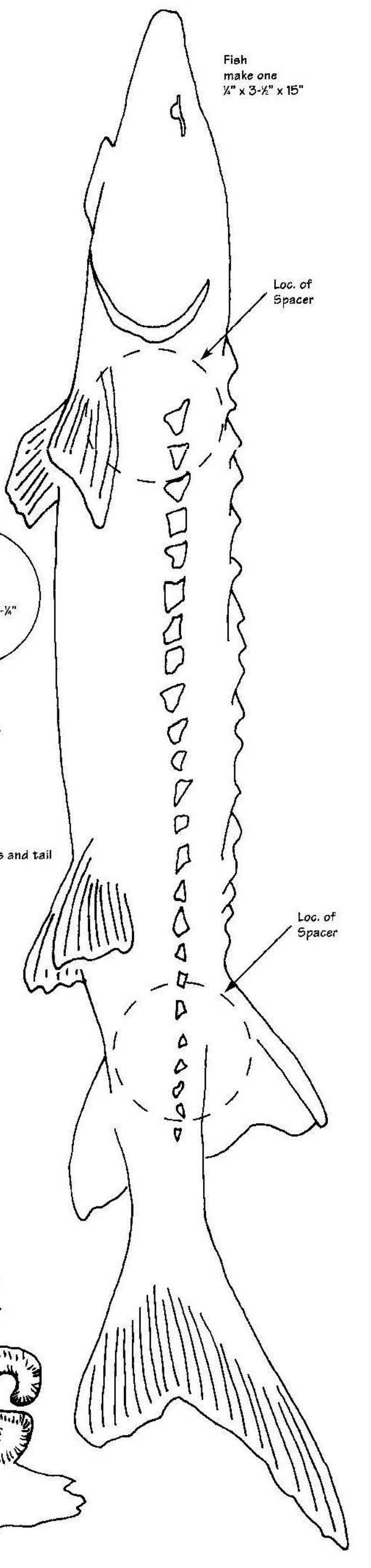
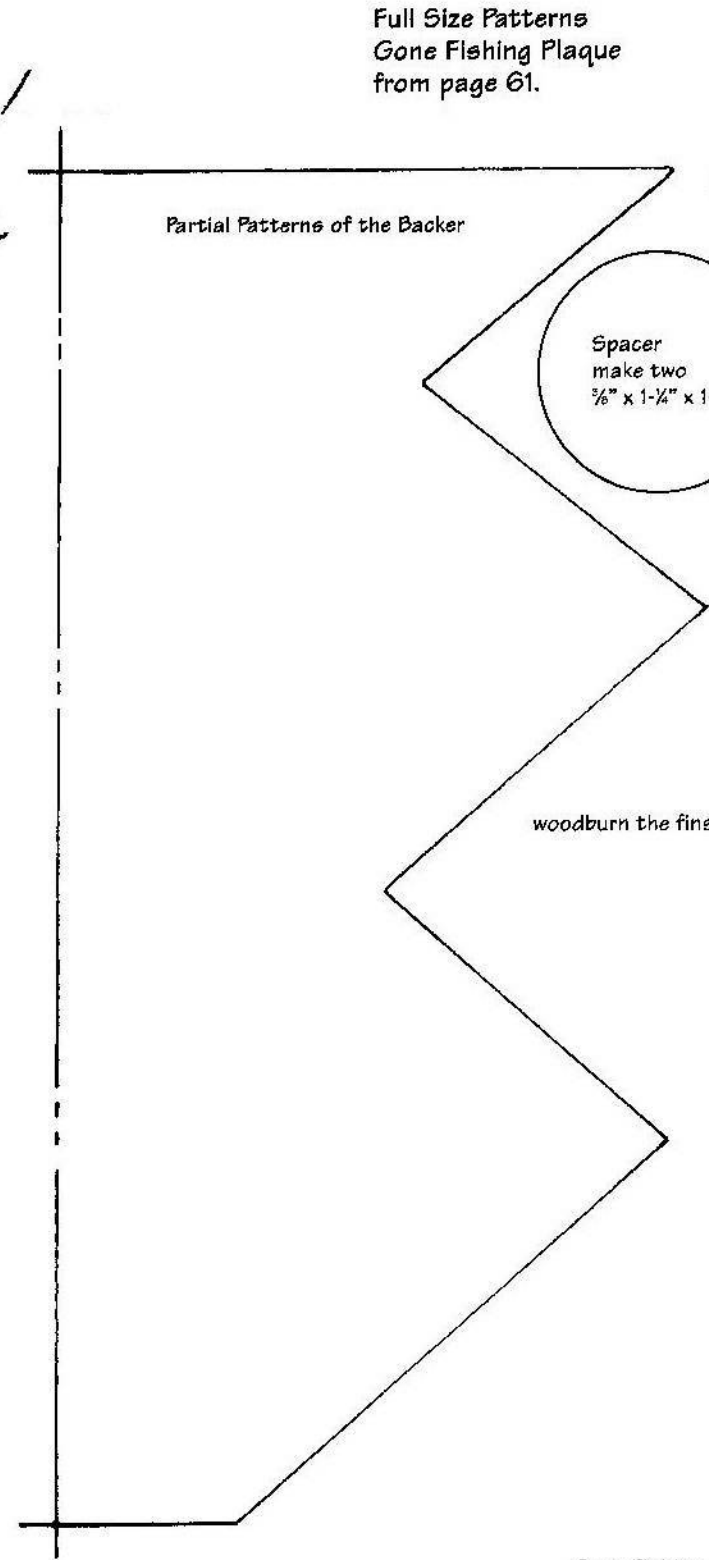
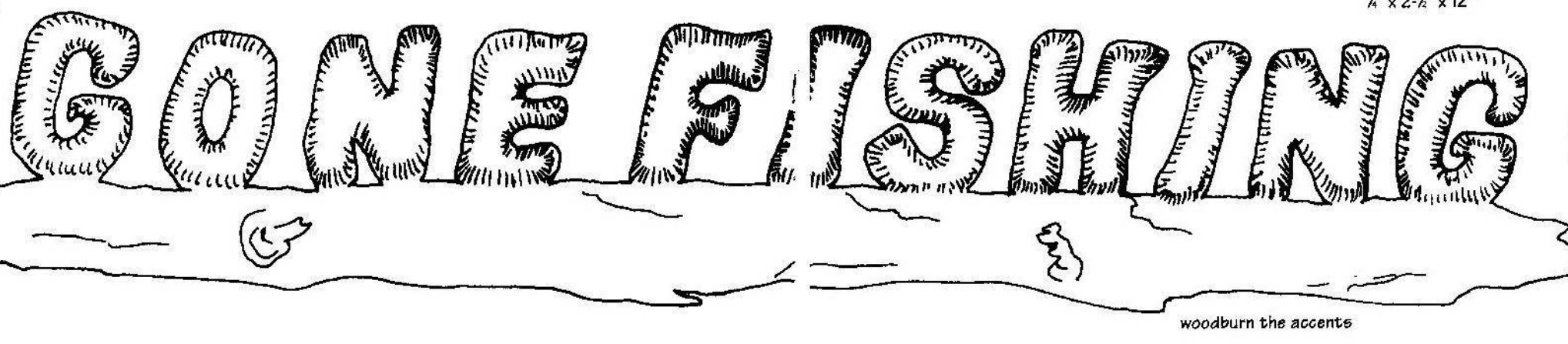
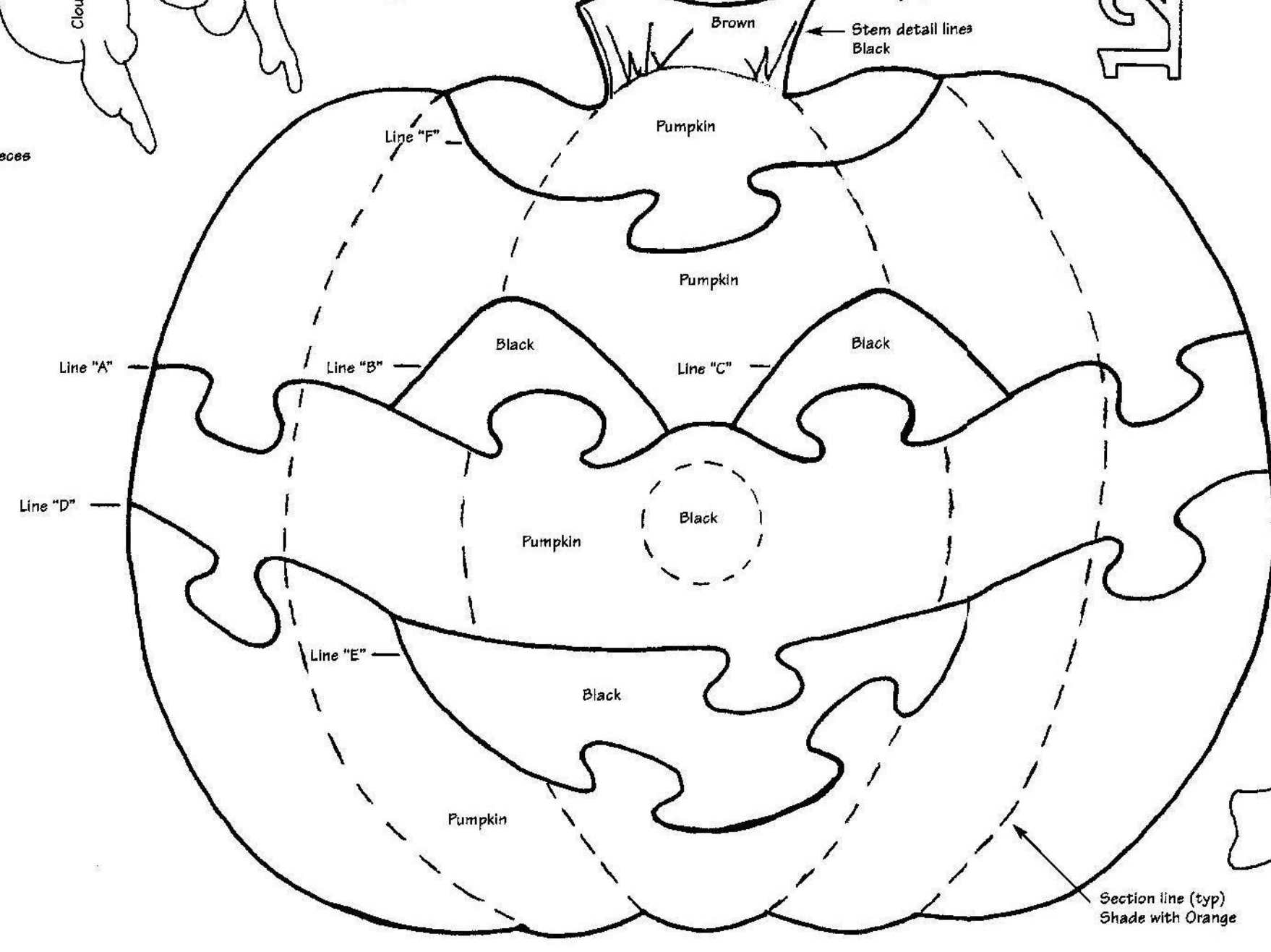
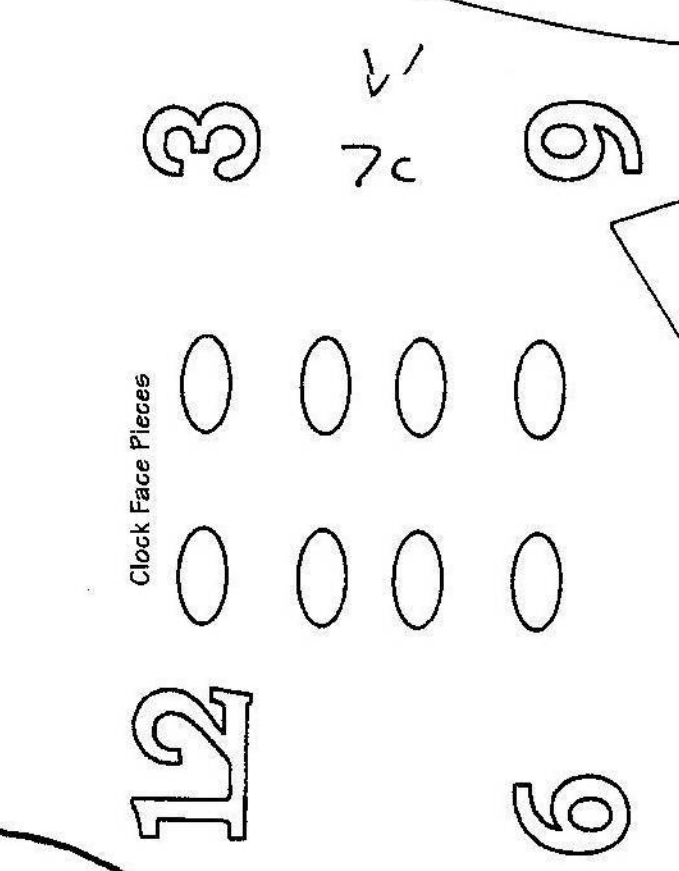
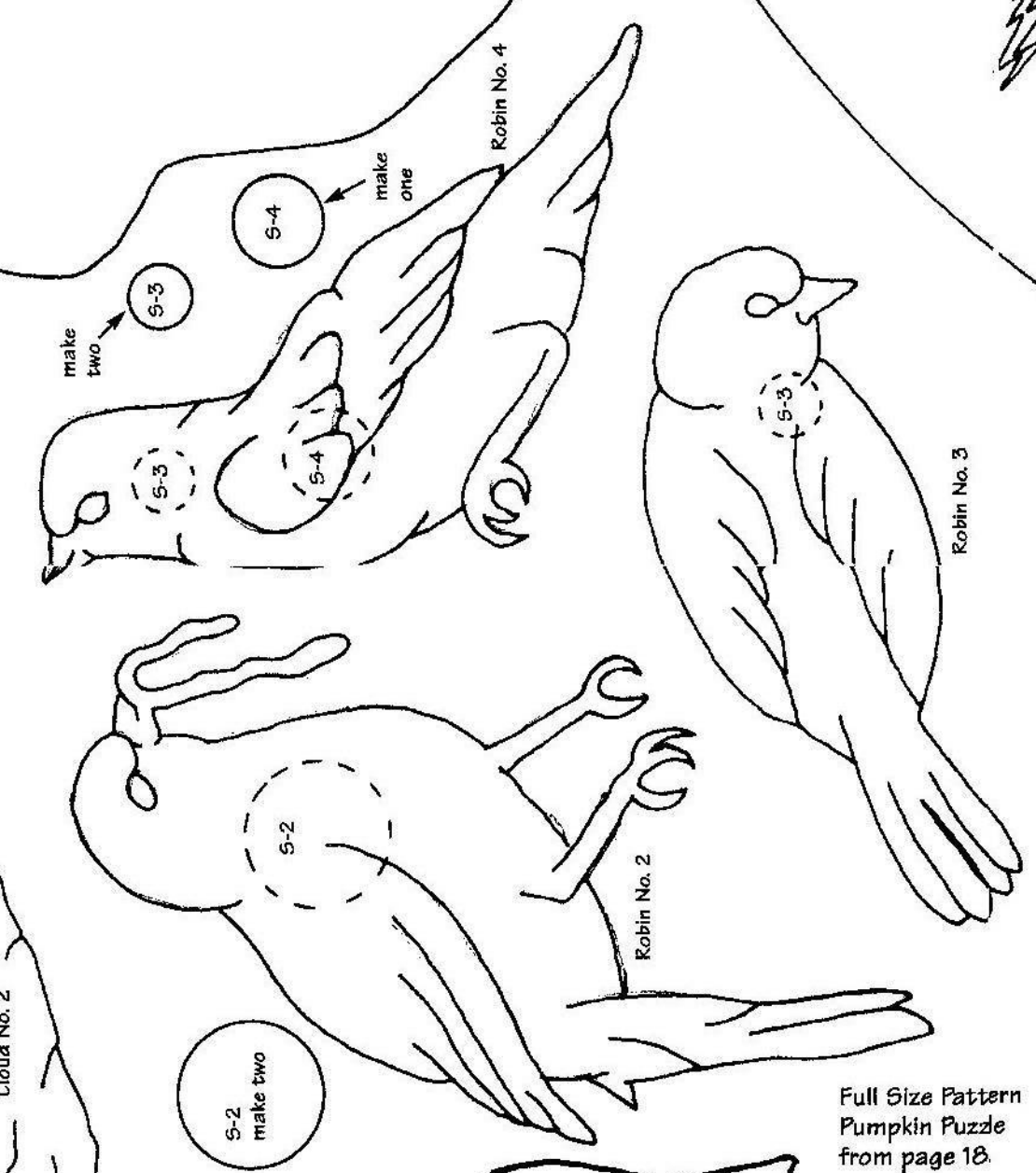
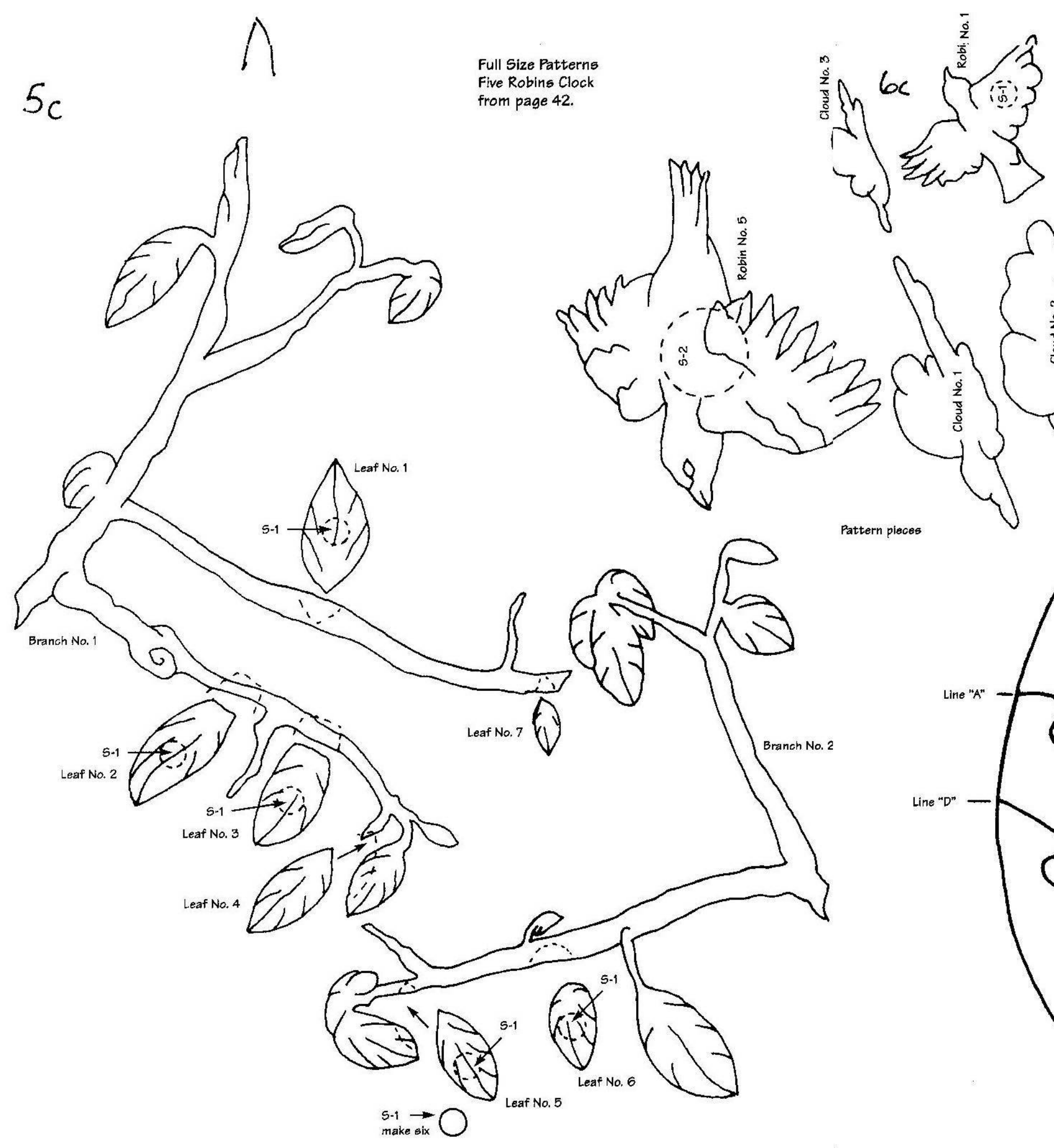
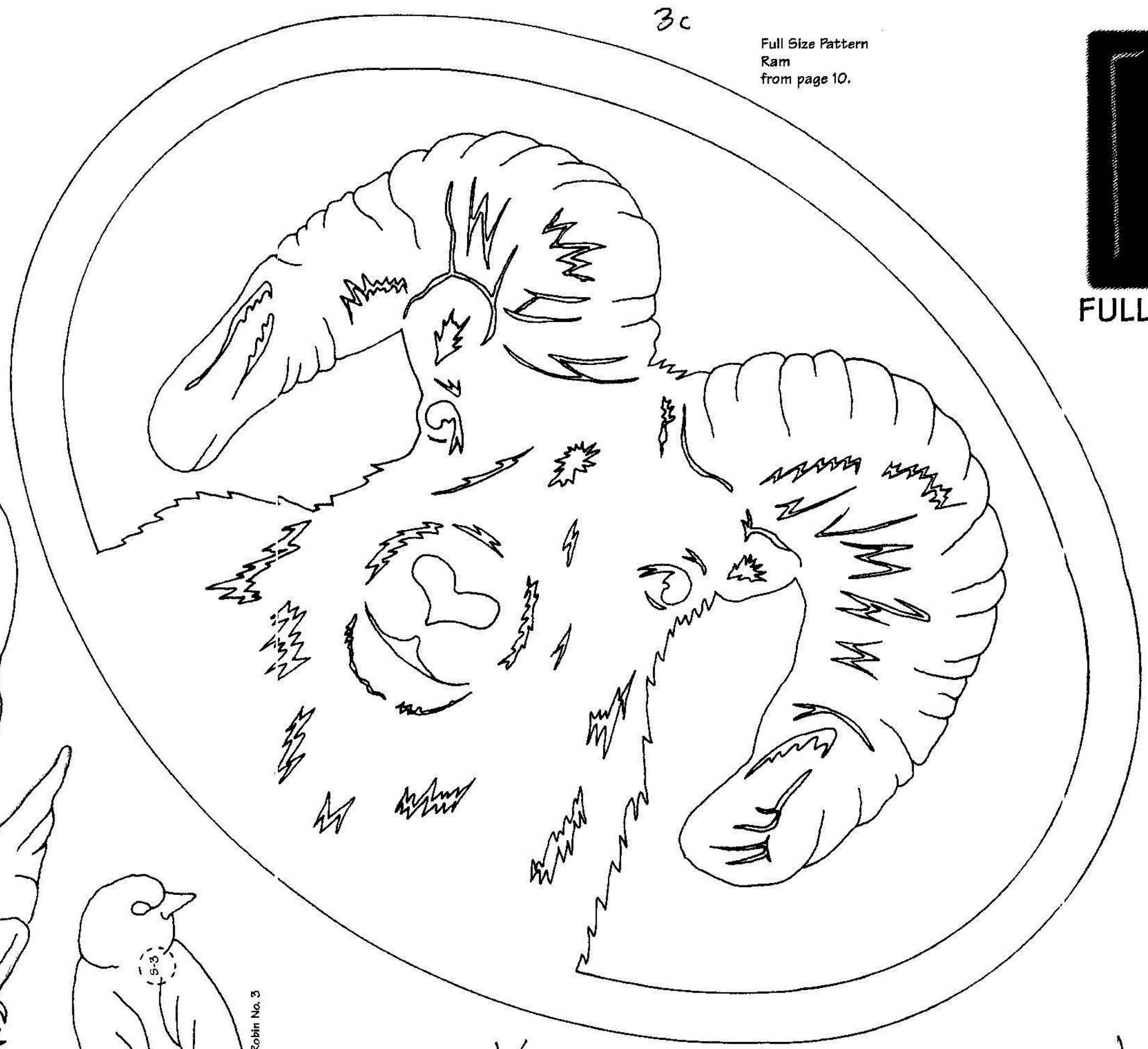
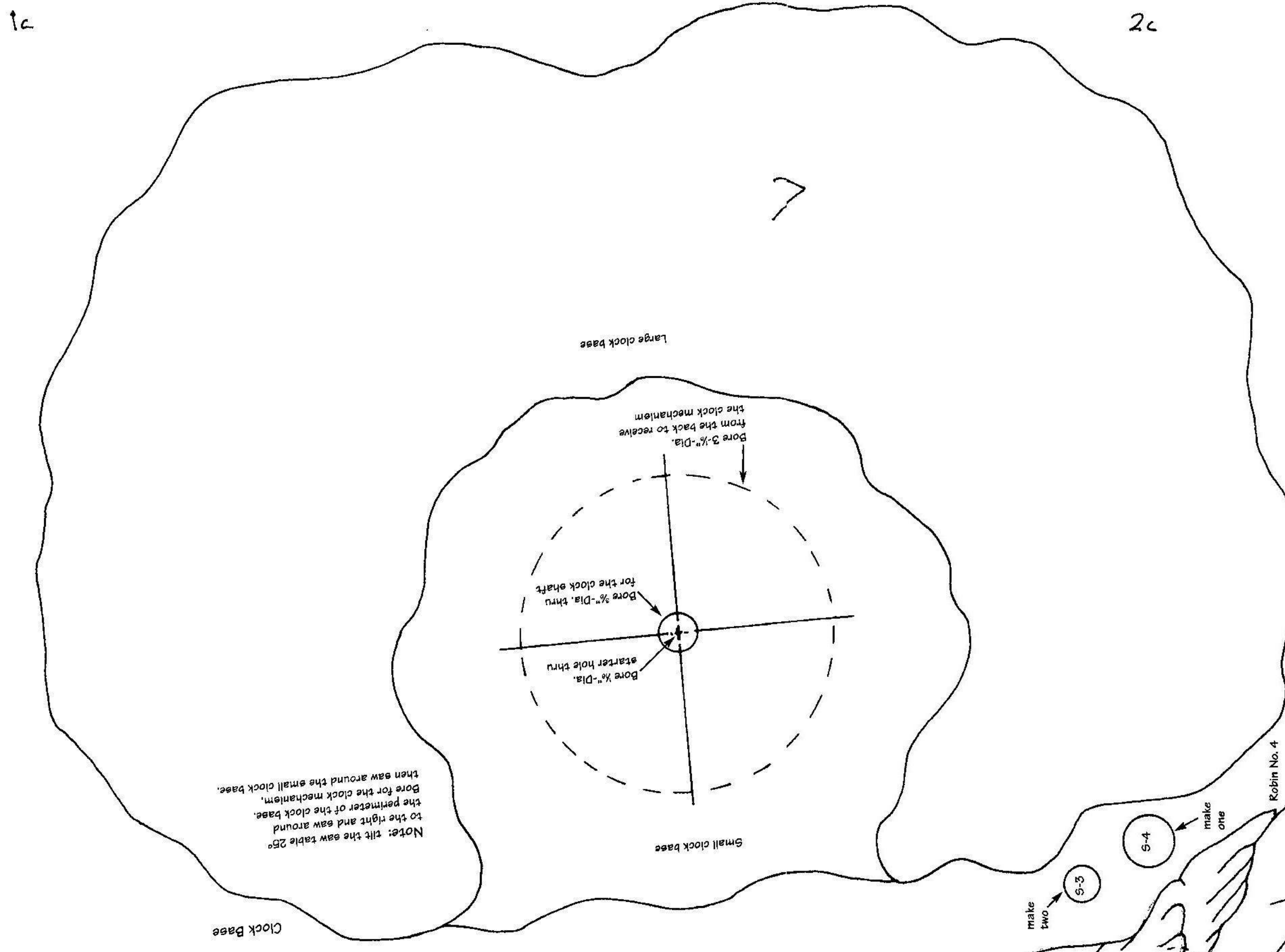
Full Size Pattern
Ram
from page 10.



FULL SIZE PATTERN SECTION NO. 2 AUGUST 2001

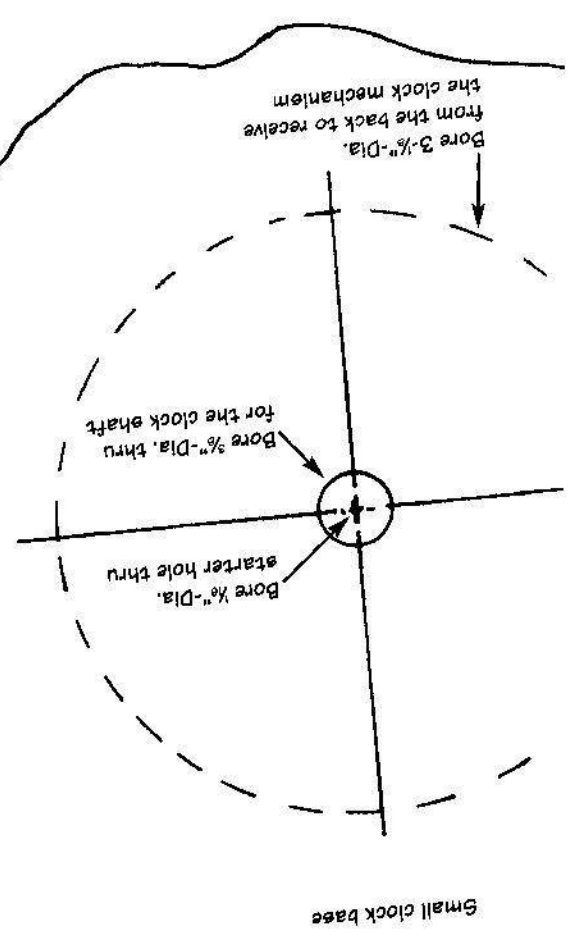
Side A	
Ram	from page 10
Pumpkin Puzzle	from page 18
Five Robins Clock	from page 42
Gone Fishing Plaque	from page 61
Side B	
NASCAR Shelf	from page 46

Metric Conversions:	
1 inch = 25.4mm = 2.54cm = 0.0254m	
Common Measurements:	
1/16" = 1.59mm	5" = 12.70cm
1/8" = 3.18mm	6" = 15.24cm
1/4" = 6.35mm	7" = 17.78cm
3/8" = 9.53mm	8" = 20.32cm
1/2" = 1.27cm	9" = 22.86cm
5/8" = 1.59cm	10" = 25.40cm
3/4" = 1.91cm	11" = 27.94cm
7/8" = 2.22cm	12" = 30.48cm
1" = 2.54cm	24" = 60.96cm
2" = 5.08cm	36" = 91.44cm
3" = 7.62cm	48" = 1.14m
4" = 10.16cm	60" = 1.52m



Clock Base

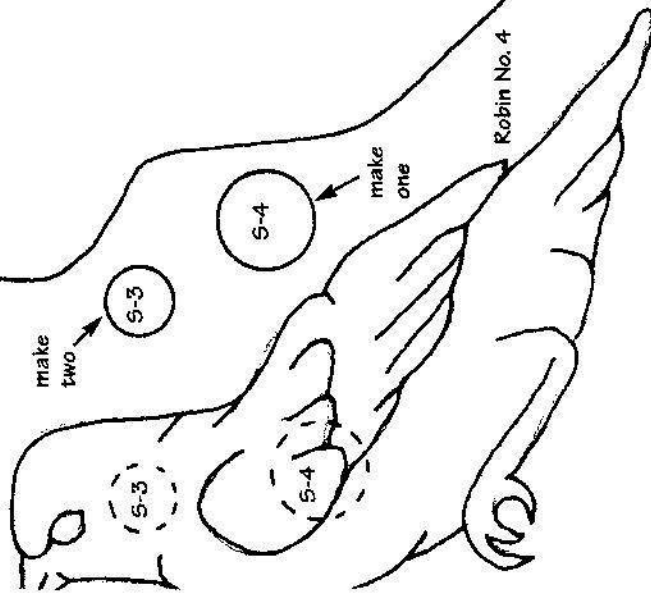
Note: tilt the saw table 25° to the right and saw around the perimeter of the clock base. Bore for the clock mechanism, then saw around the small clock base.



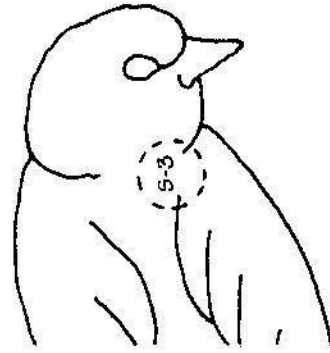
Large clock base

Small clock base

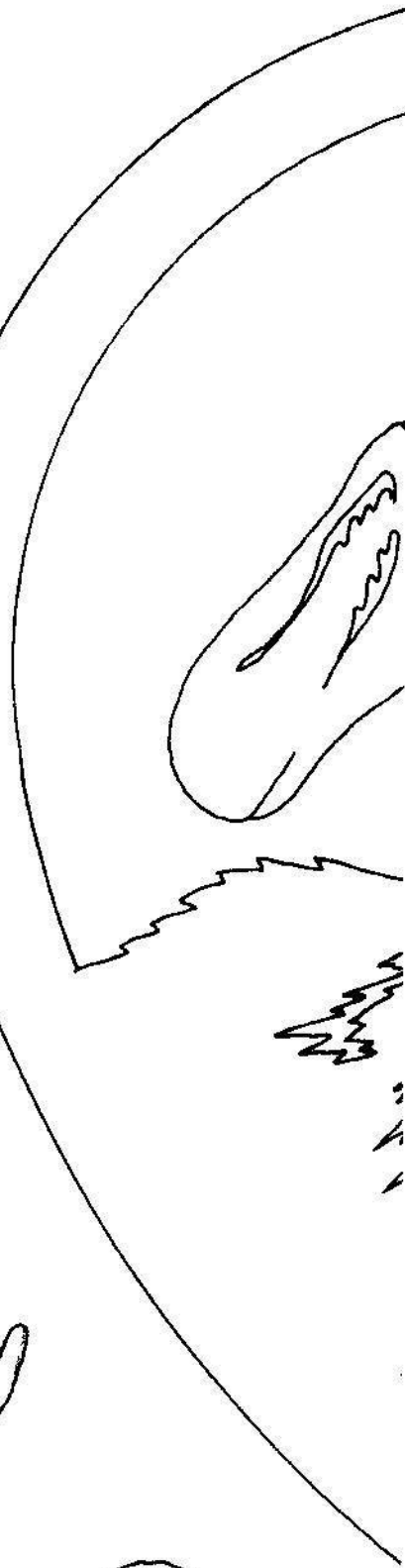
No. 1



Robin No. 4



Robin No. 3



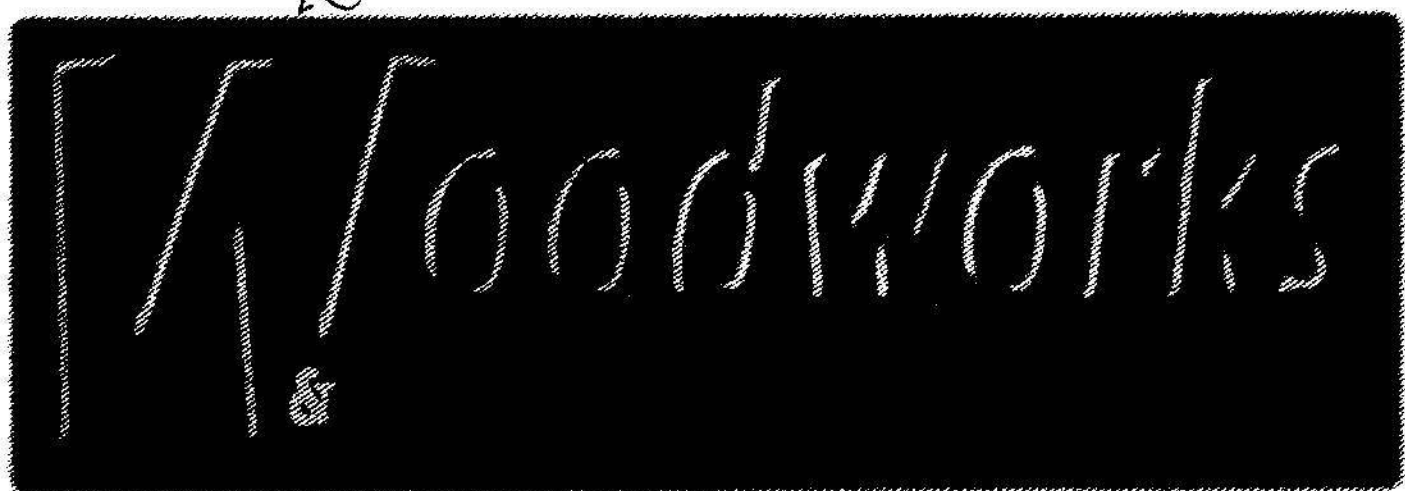
Robin No. 2

3c

Full Size Pattern
Ram
from page 10.



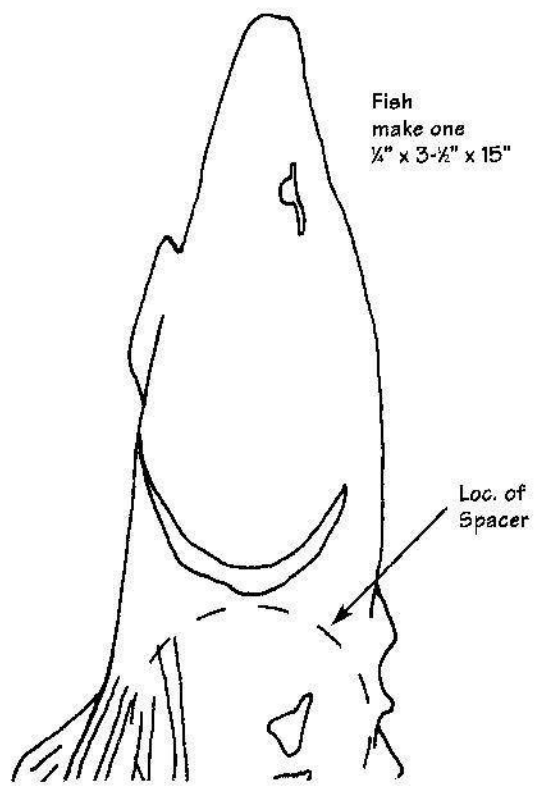
4c



FULL SIZE PATTERN SECTION NO. 2 AUGUST 2001

Side A	
Ram	from page 10
Pumpkin Puzzle	from page 18
Five Robins Clock	from page 42
Gone Fishing Plaque	from page 61
Side B	
NASCAR Shelf	from page 46

Metric Conversions:	
1 inch = 25.4mm = 2.54cm = 0.0254m	
<u>Common Measurements:</u>	
1/16" = 1.59mm	5" = 12.70cm
1/8" = 3.18mm	6" = 15.24cm
1/4" = 6.35mm	7" = 17.78cm
3/8" = 9.53mm	8" = 20.32cm
1/2" = 1.27cm	9" = 22.86cm
5/8" = 1.59cm	10" = 25.40cm
3/4" = 1.91cm	11" = 27.94cm
7/8" = 2.22cm	12" = 30.48cm
1" = 2.54cm	24" = 60.96cm
2" = 5.08cm	36" = 91.44cm
3" = 7.62cm	45" = 1.14m
4" = 10.16cm	60" = 1.52m

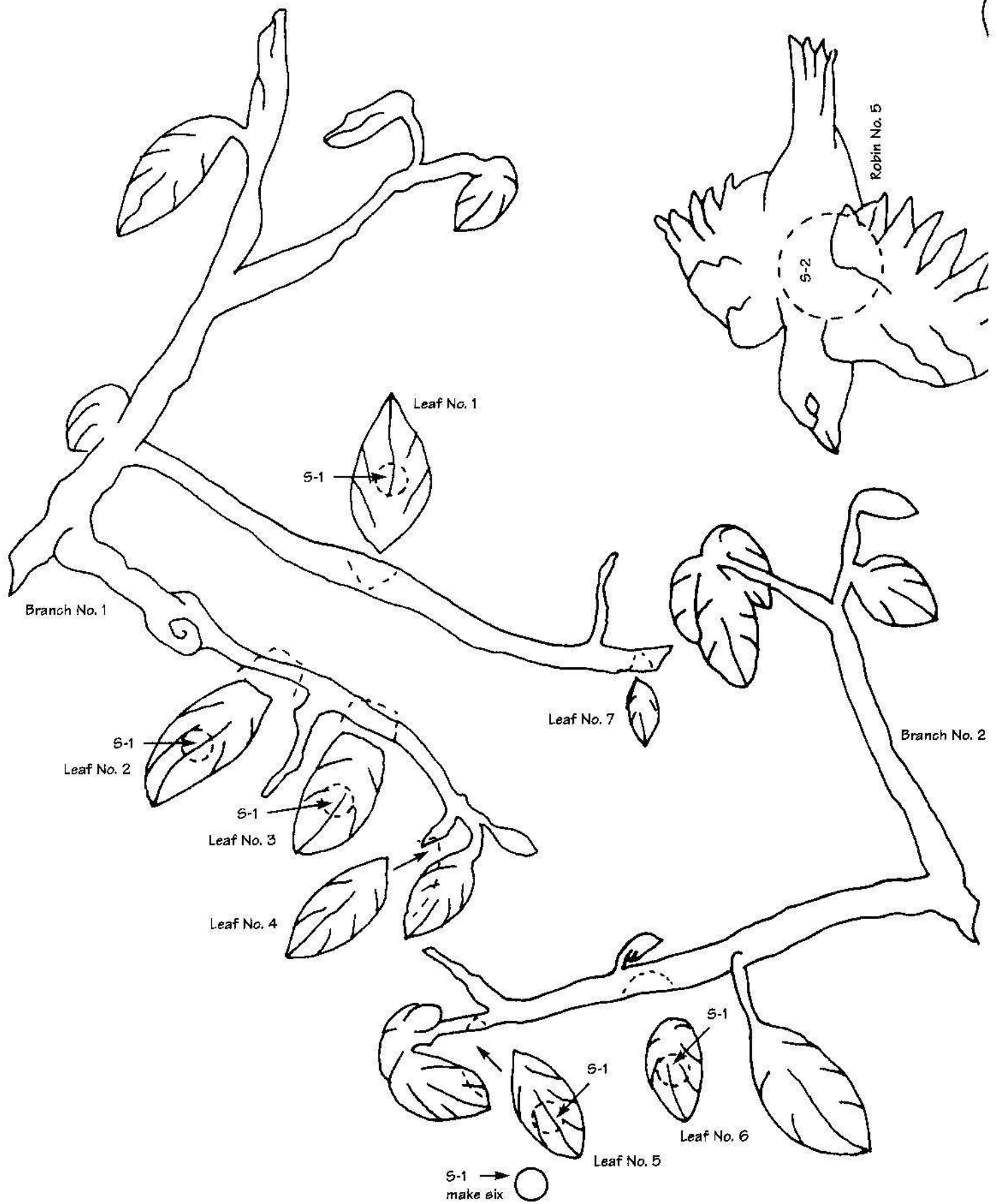


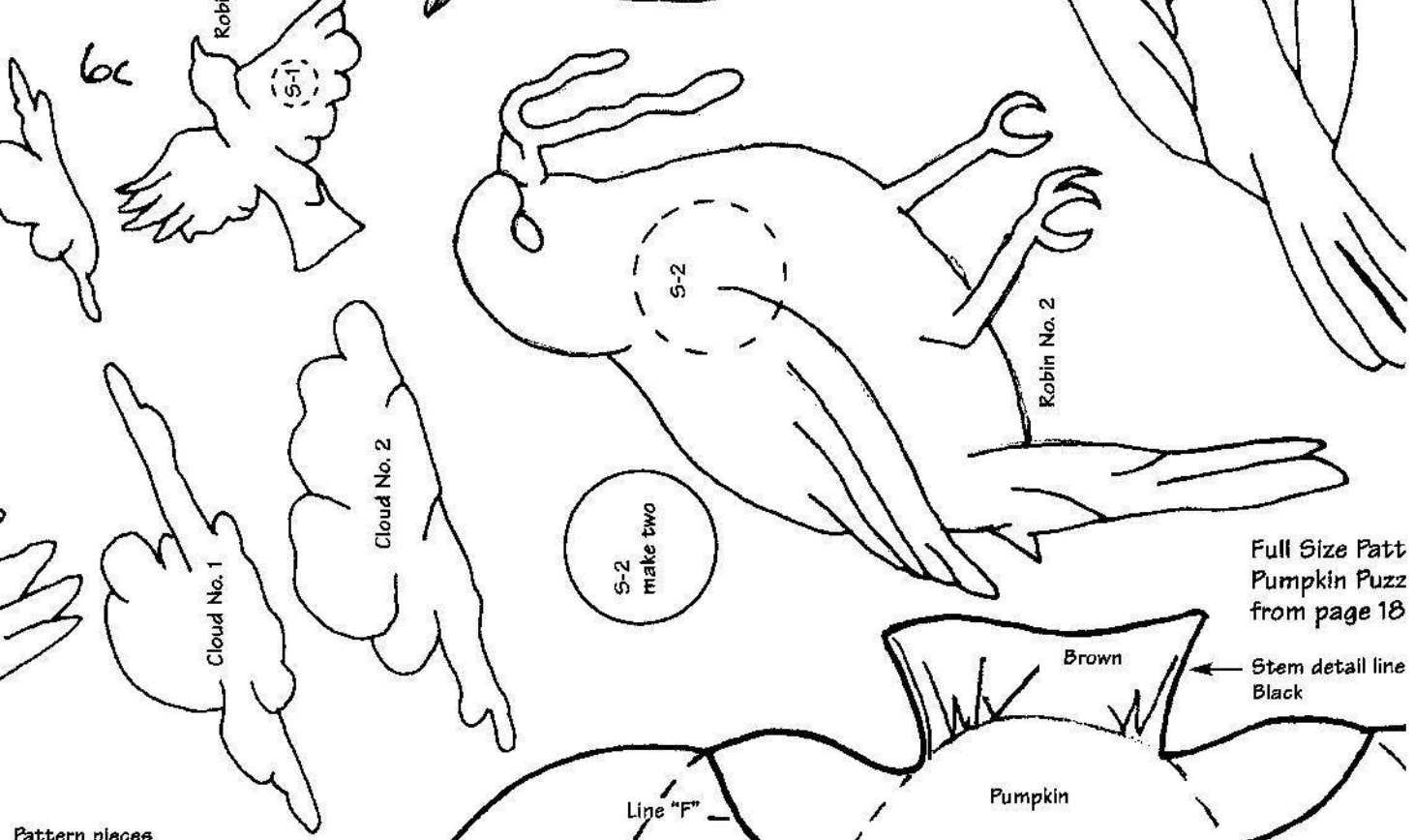
Full Size Patterns
Gone Fishing Plaque
from page 61.

5c

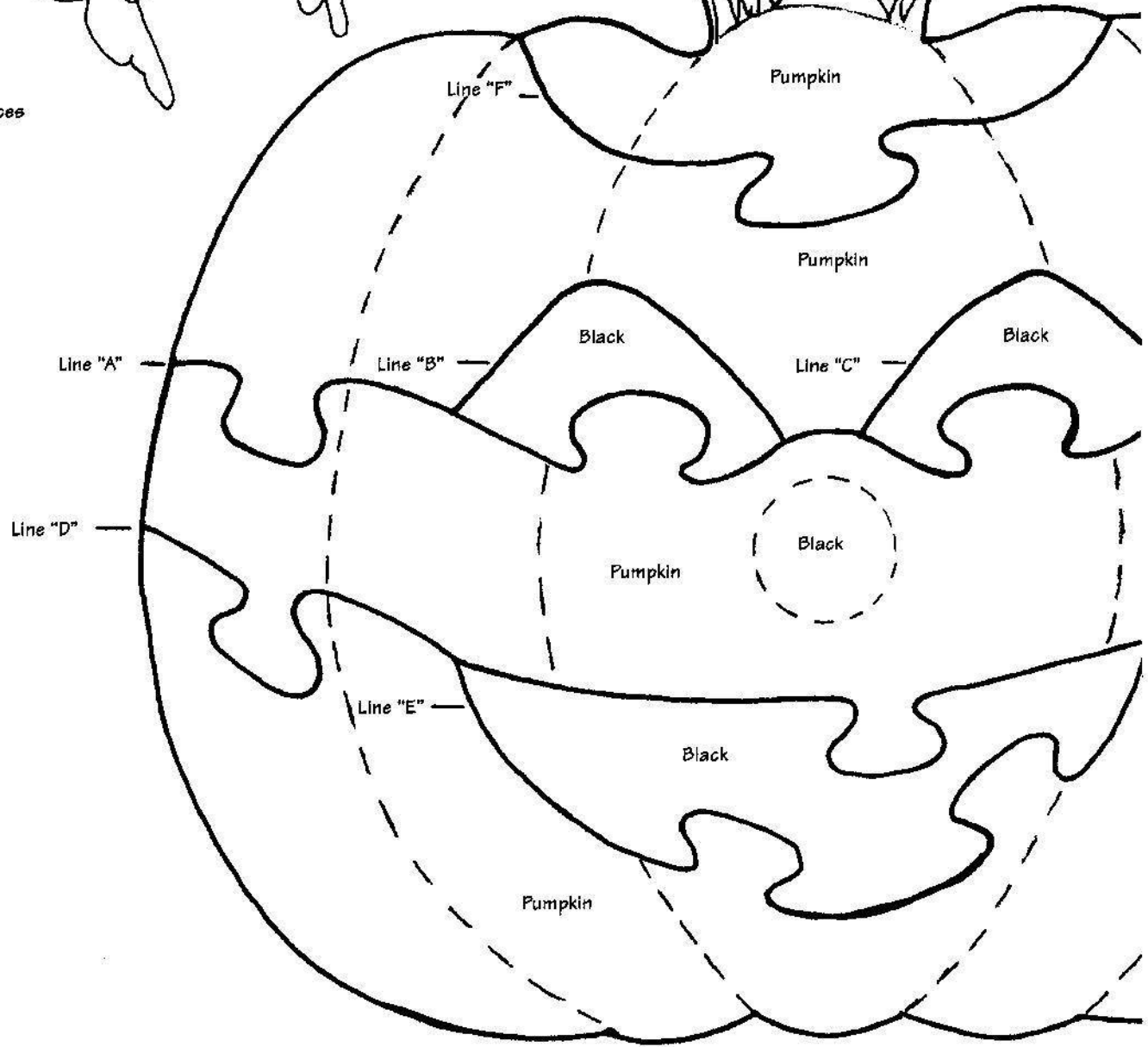
Full Size Patterns
Five Robins Clock
from page 42.

Cloud No. 3





Pattern pieces

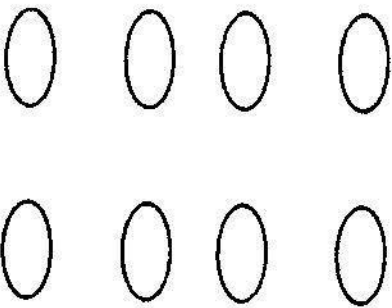


3

7c

9

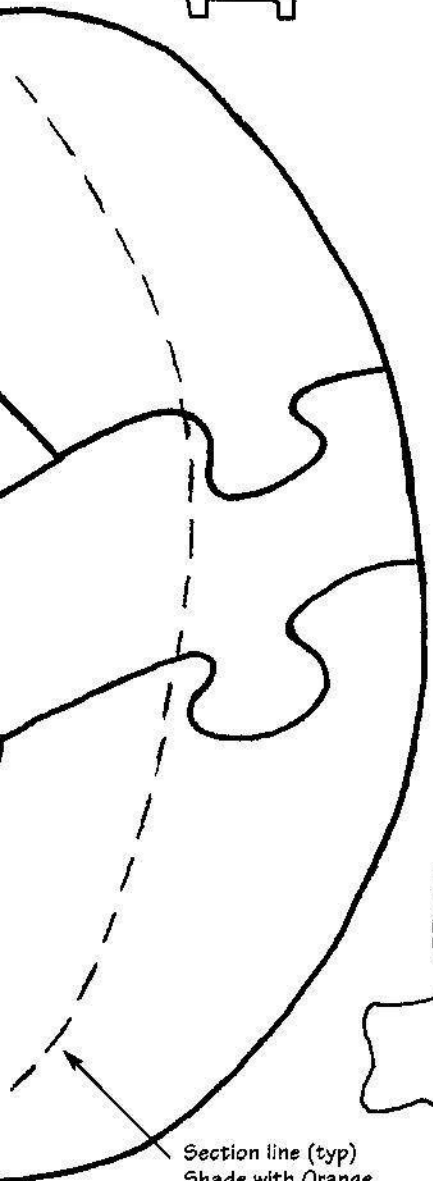
Clock Face Pieces



12

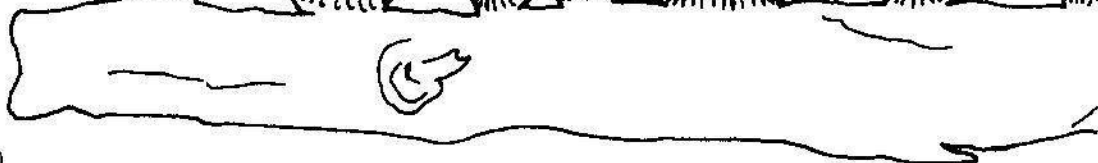
6

ern
le
a



Section line (typ)
Shade with Orange

GONE



84C

Partial Patterns of the Backer

Spacer
make two
 $\frac{3}{8}$ " x $1\frac{1}{4}$ " x $1\frac{1}{4}$ "

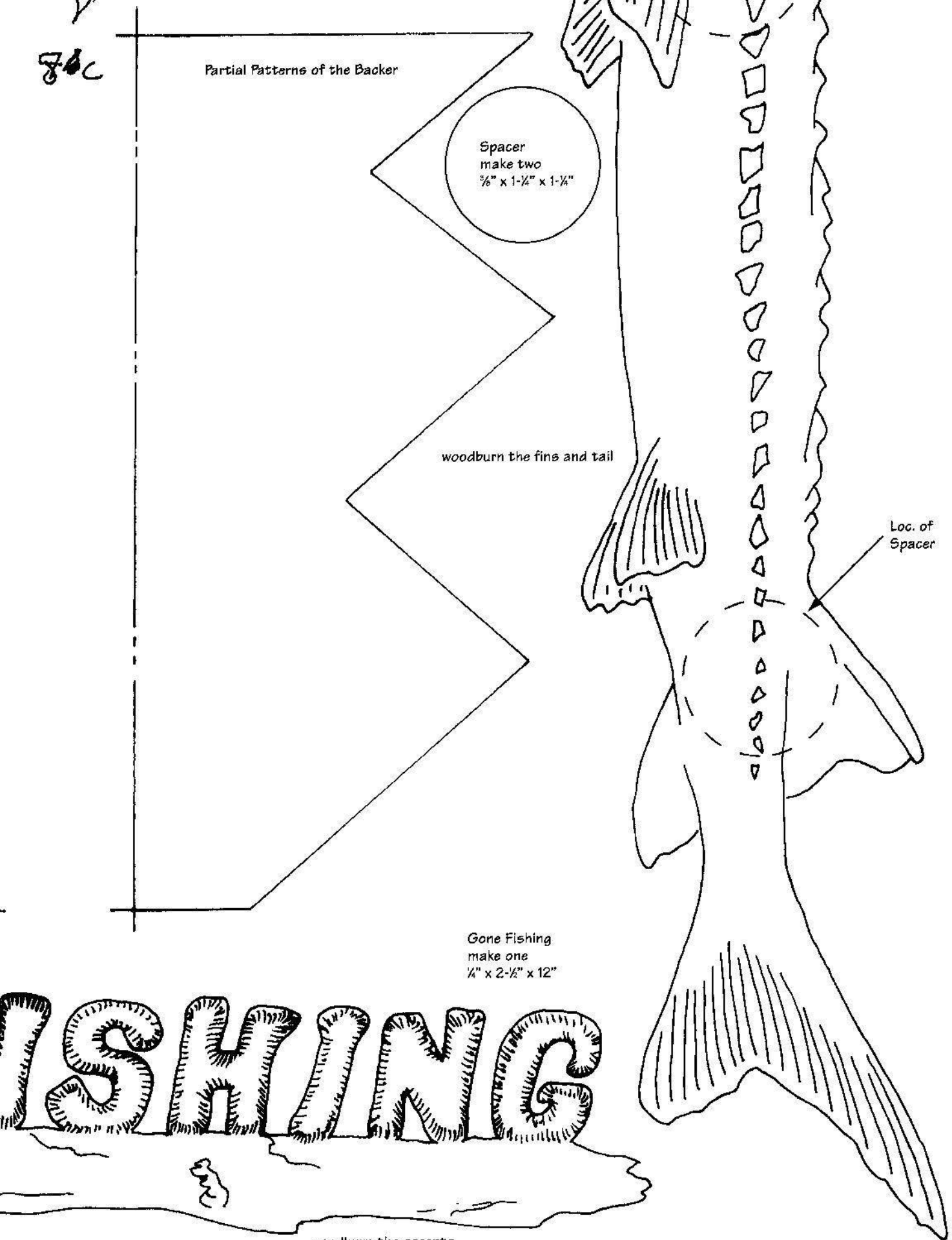
woodburn the fins and tail

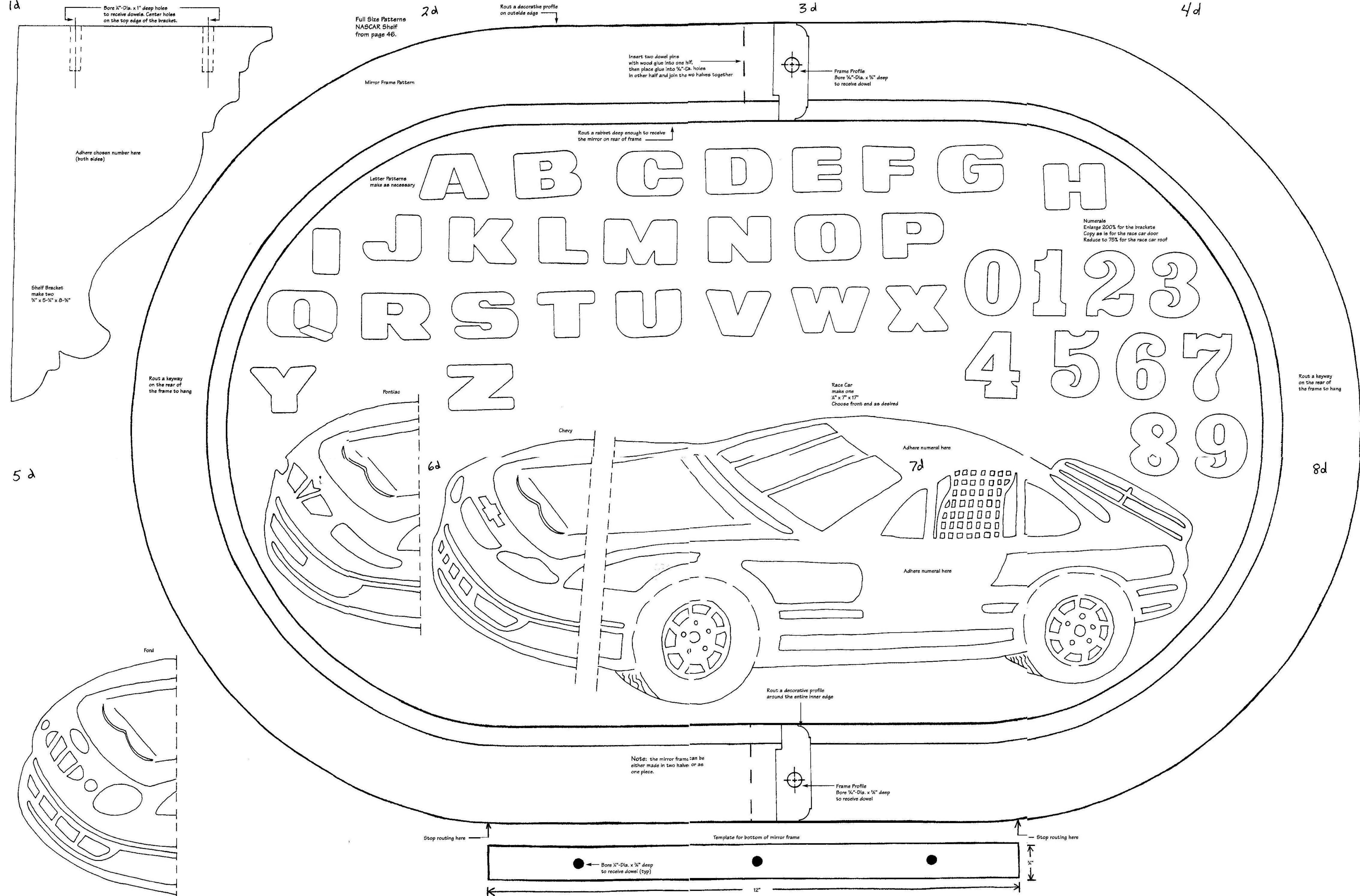
Loc. of
Spacer

Gone Fishing
make one
 $\frac{1}{4}$ " x $2\frac{1}{2}$ " x 12"

ISHING

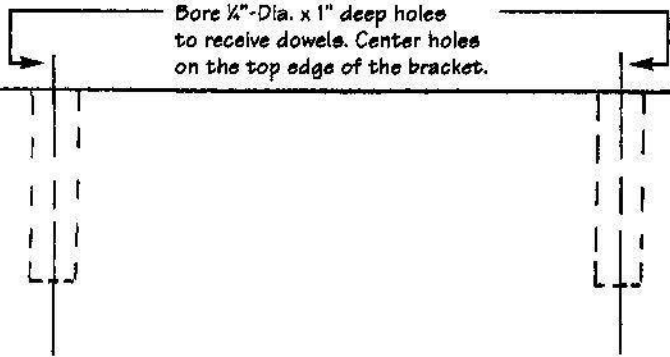
woodburn the accents





1a

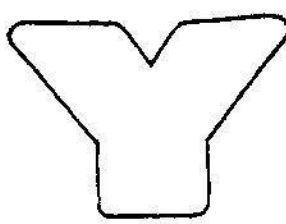
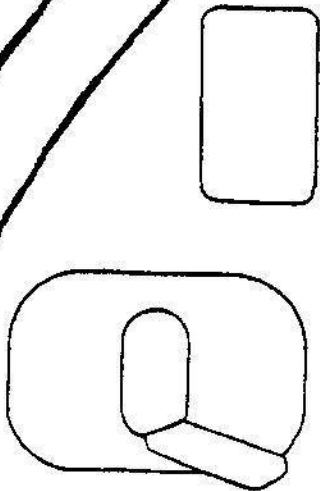
Bore $\frac{1}{4}$ "-Dia. x 1" deep holes
to receive dowels. Center holes
on the top edge of the bracket.



Adhere chosen number here
(both sides)

Shelf Bracket
make two
 $\frac{3}{4}$ " x 5- $\frac{1}{4}$ " x 8- $\frac{3}{8}$ "

Rout a keyway
on the rear of
the frame to hang



2d

Full Size Patterns
NASCAR Shelf
from page 46.

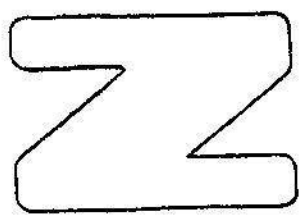
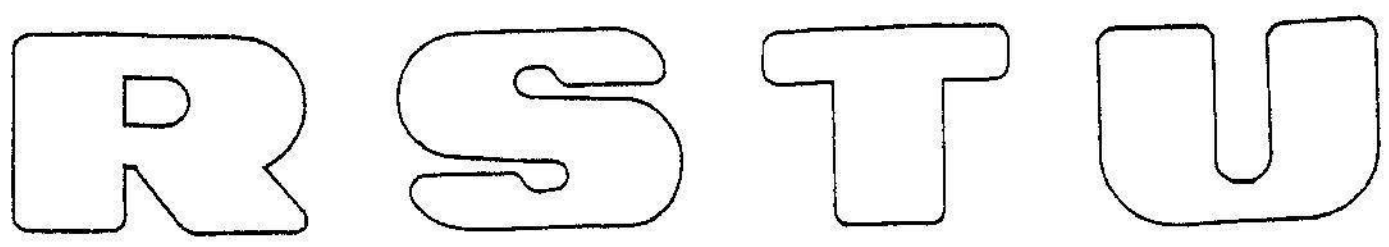
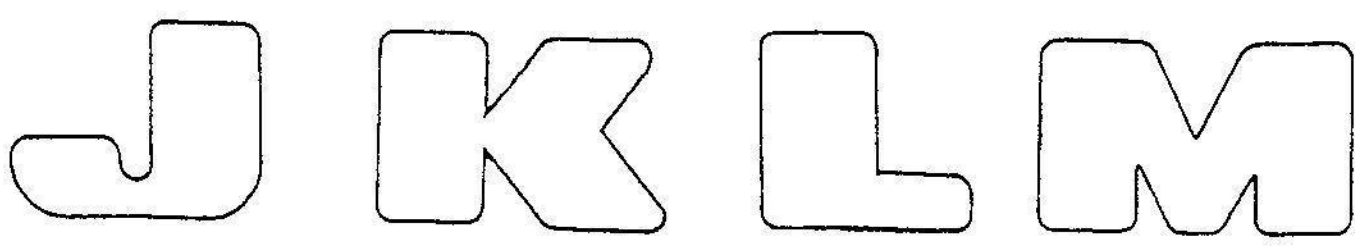
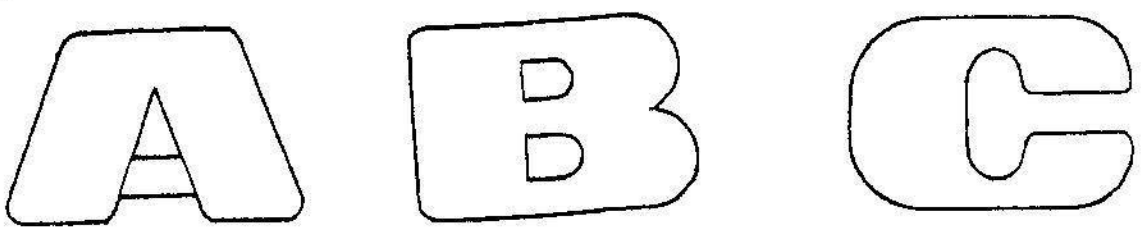
Rout a decorative profile
on outside edge

Insert two dowel pins
with wood glue into one half
then place glue into 1/8" DI
in other half and join the t

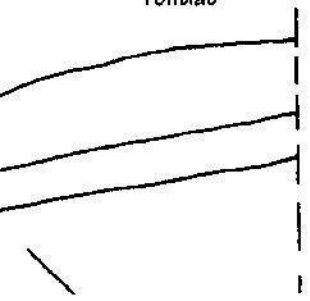
Mirror Frame Pattern

Rout a rabbet deep enough to receive
the mirror on rear of frame

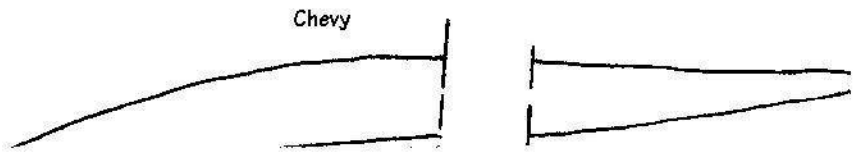
Letter Patterns
make as necessary



Pontiac



Chevy



3 d

if,
a. holes
two halves together



Frame Profile
Bore $\frac{1}{8}$ "-Dia. x $\frac{1}{8}$ " deep
to receive dowel

D E F G

N O P

V W X

0

4

Race Car
make one
 $\frac{1}{4}$ " x 7" x 17"
Choose front end as desired

Adhere numeral here

4d

H

Numerals
Enlarge 200% for the brackets
Copy as is for the race car door
Reduce to 75% for the race car roof

1 2 3

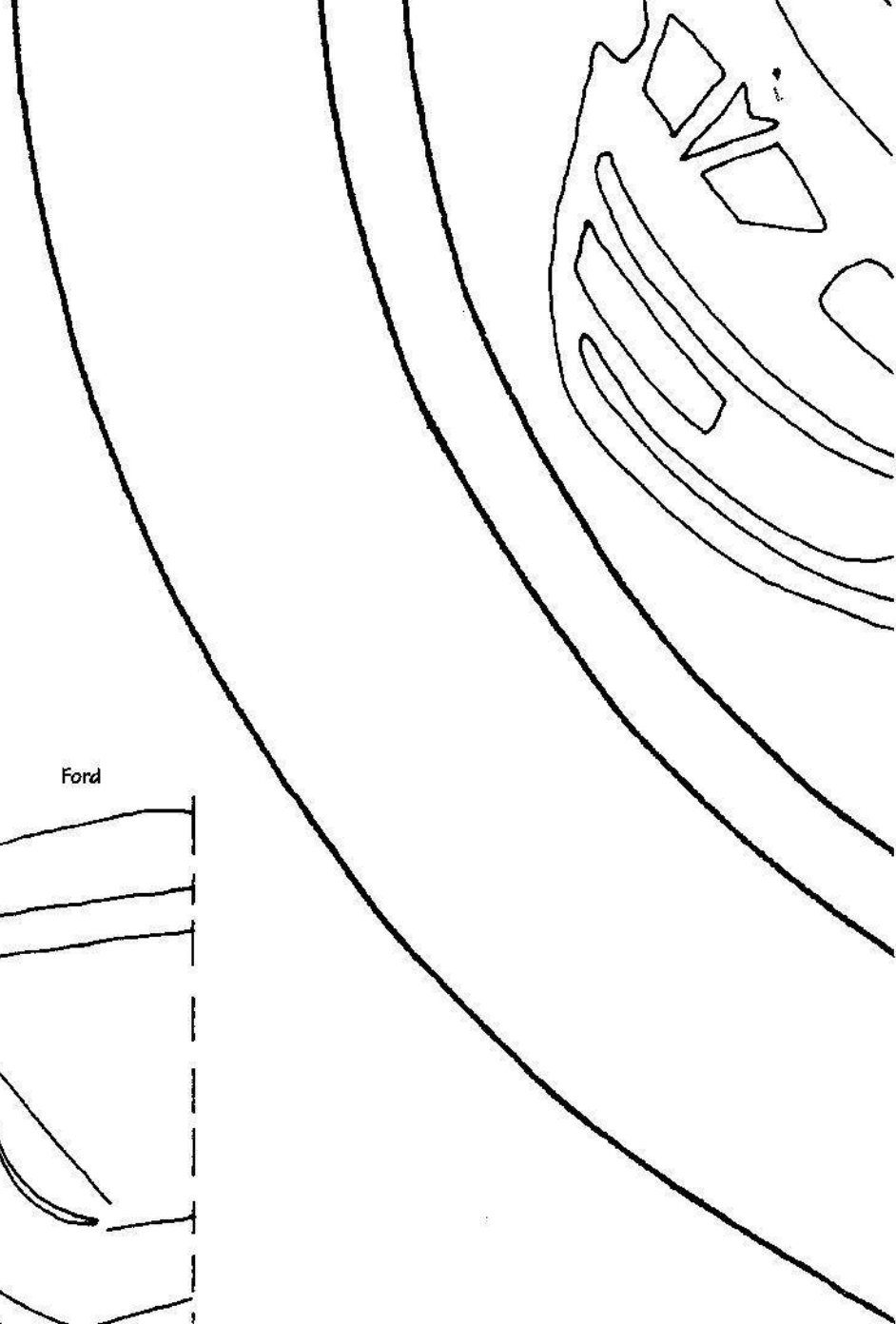
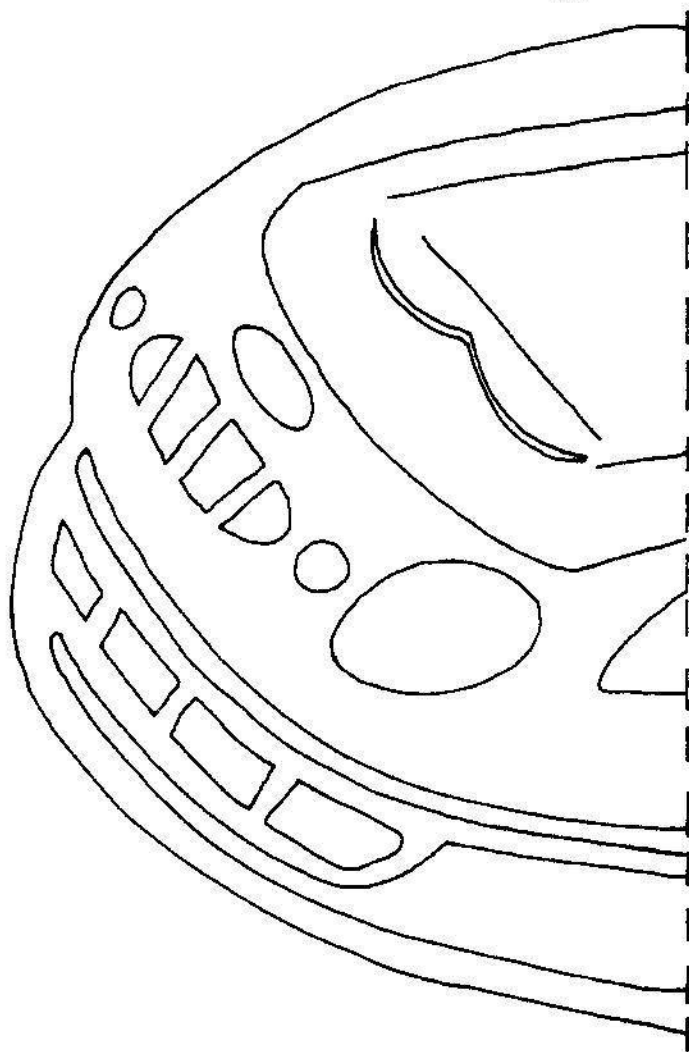
5 6 7

8 9

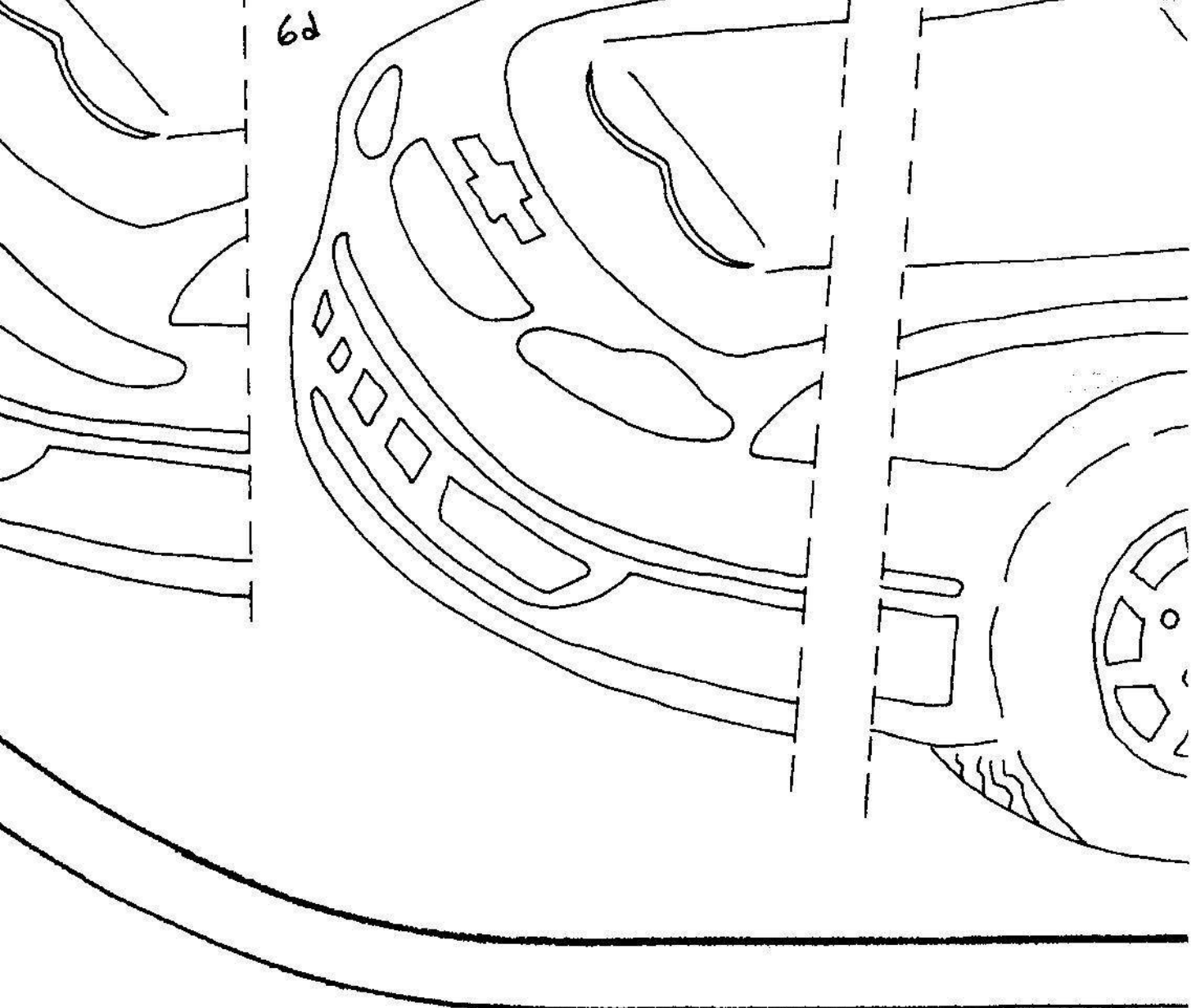
Rout a keyway
on the rear of
the frame to hang

5 a

Ford

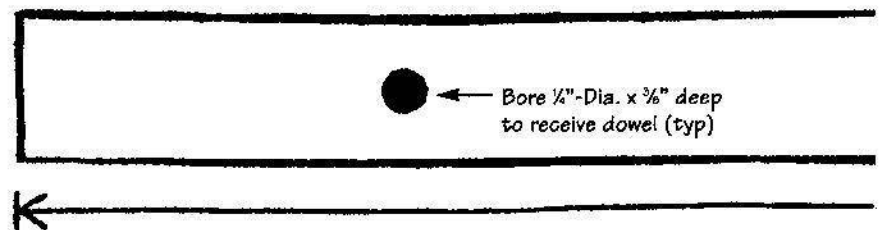


6d

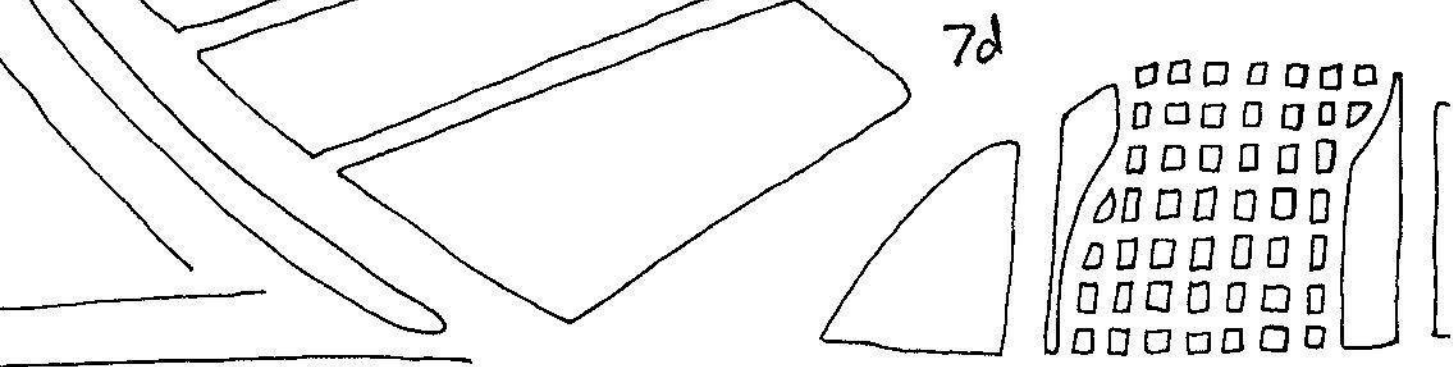


Note: the mirror frame
either made in two halves
one piece.

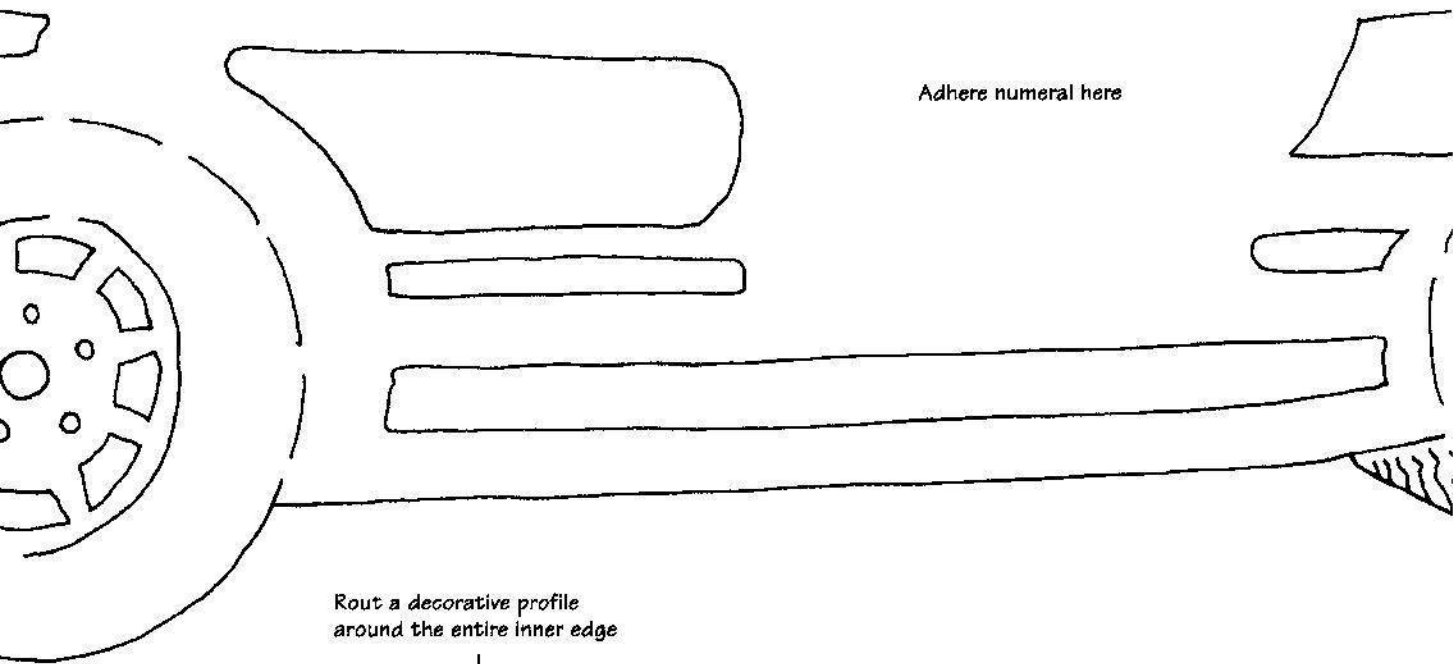
Stop routing here



Bore 1/4\"-Dia. x 3/8\" deep
to receive dowel (typ)



Adhere numeral here



Rout a decorative profile
around the entire inner edge

can be
or as



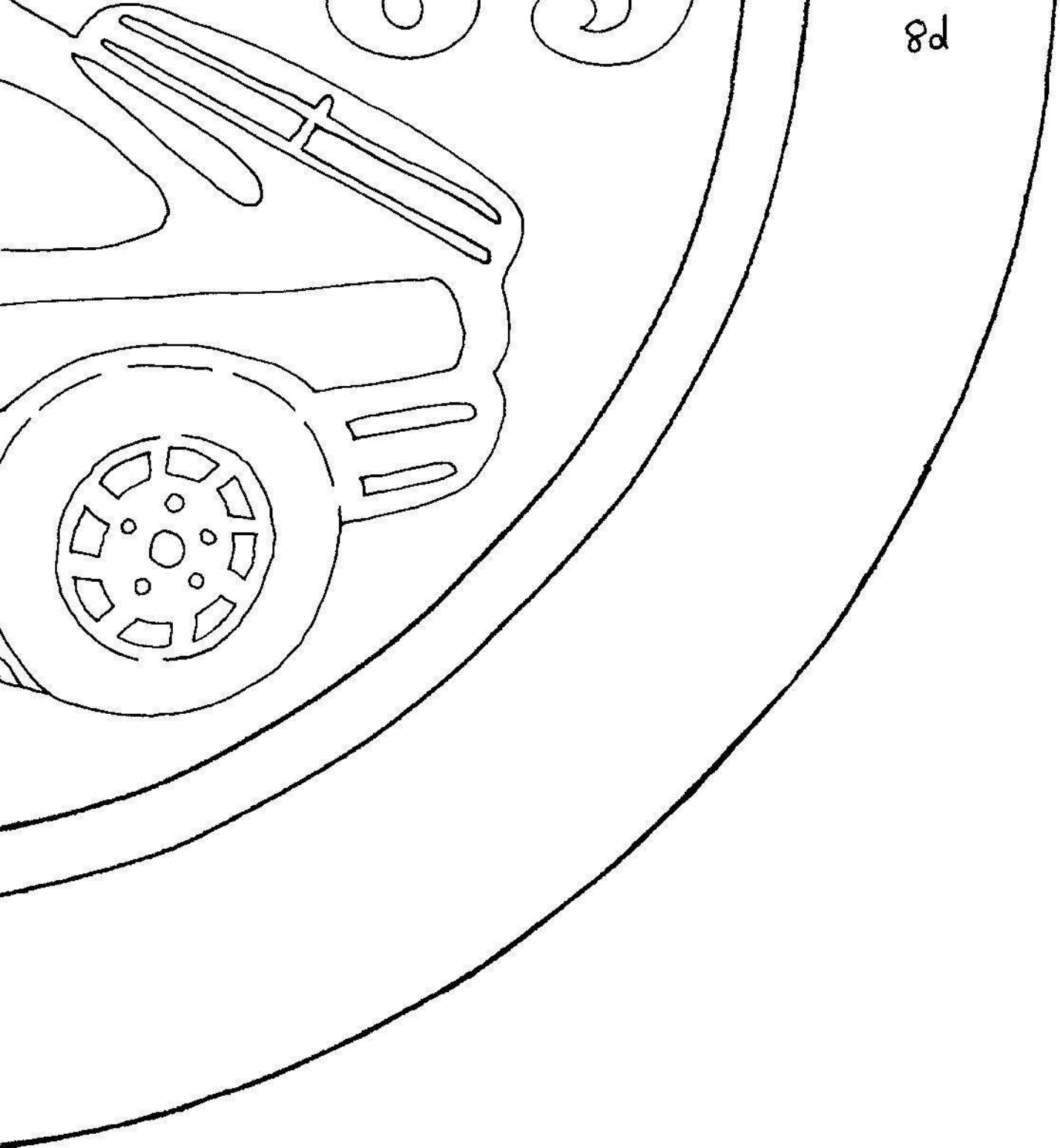
Frame Profile
Bore $\frac{3}{16}$ "-Dia. x $\frac{5}{16}$ " deep
to receive dowel

Template for bottom of mirror frame



12"

8d



— Stop routing here

