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HOLIDAY 2015
ISSUE 61

60

HOLIDAY PATTERNS

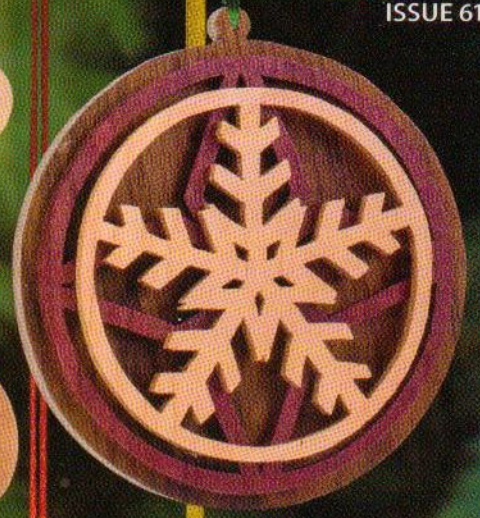
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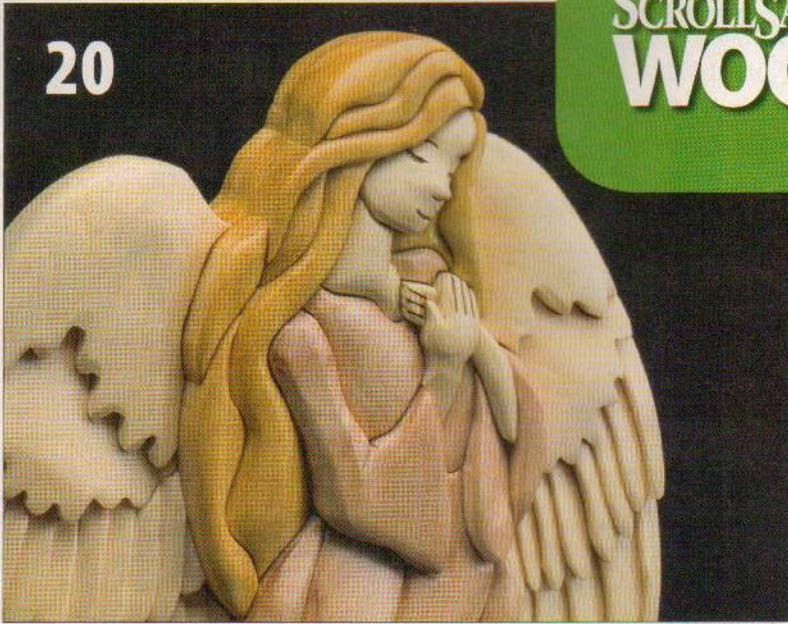
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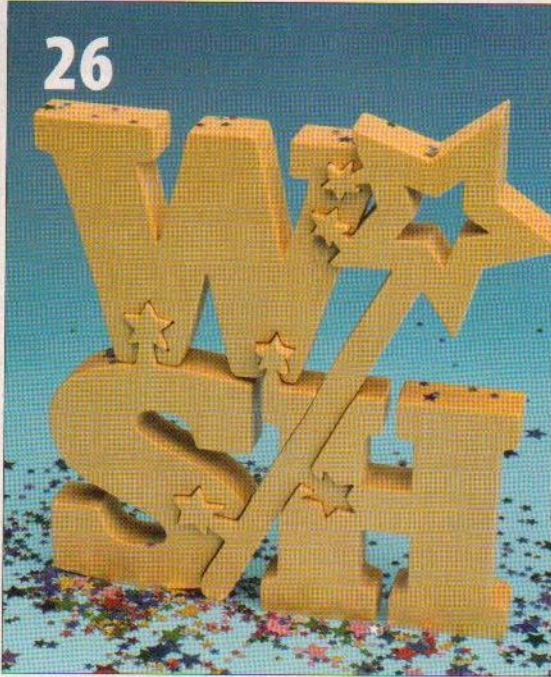
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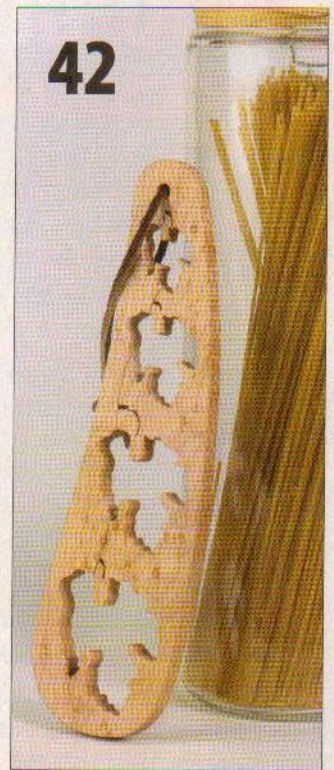
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• *Holiday Pattern Pack*

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• *Design Contest 2016*

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Goodies

'Tis the season for gifts and treats, so we've tried to pack this issue full of good stuff for you. There are more articles than usual, and several of them have multiple patterns. Plus, we had a little extra space on the pattern pullout, so we included 11 bonus patterns from Dan Wilckens. I hope they help make your holiday scrolling jolly!

If you're looking for gift ideas for your favorite scroller, check out our online Gift Guide, coming to the web Thanksgiving weekend. It's our way of launching our updated website, plus sharing some great gift ideas from our advertisers and scrolling friends. Look it up online at www.scrollsawer.com on November 27.

Speaking of gifts, there are a few books out from Fox that you might want to know about. Whether you're into toys, puzzles, or fretwork, we have you covered. See page 16 for details.

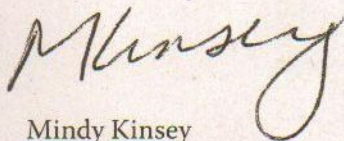
One of the "books" is actually the first-ever digital issue of *SSW*, released this time last year but updated for 2015. It contains 50+ patterns that you can download and print at home. Let me know what you think—if you like the idea, we'll do more digital issues. Again, order info is on page 16.

And there are actually even more patterns to mention! We recently released a new issue of our *Gizmos & Gadgets* magazine. It contains a dozen cool toys, contraptions, machines, and automata. It's available on newsstands, or you can order directly from us.

Another thing I want to draw your attention to: We're trying a new format for our semi-annual contest. Instead of one big contest, which is kind of overwhelming to administer, we are running a series of smaller contests throughout the year. We will also be awarding cash prizes sponsored by The Wooden Teddy Bear and Mike's Workshop! Check out the information on page 17 and on our website, and then start preparing your entries.

Finally, I'm sorry to say we made a mistake in the Fall issue. Our Open House woodworking show will take place on May 13-14, 2016, **not** Mother's Day weekend. I apologize for the error—the holiday is early next year, which caused us some confusion. So mark your calendars for the following weekend, May 13-14, and join us in Lancaster!

Wishing you and yours all the best this holiday season.



Mindy Kinsey
kinsey@FoxChapelPublishing.com

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 Volume 16, Number 4, Issue 61

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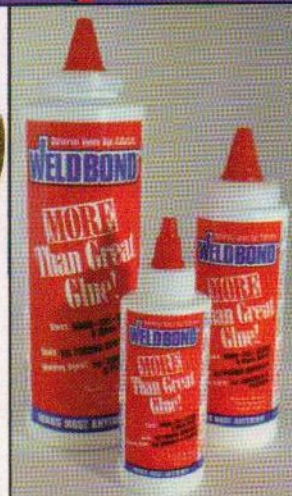
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Fall Issue Projects

If I Only Had A Brain Music Box

I think it would be easier for me to train a lab rat to turn the handle on the music box movement than to make the three drive gears required for the Frankenstein music box (*SSW* Fall 2015, Issue 60). I overlaid the gears on the pattern and they match perfectly, but when assembled, they don't mesh smoothly. At least a metal gear can be greased. I have given up on this thing. Anybody else have this problem?

Kenneth Baatz
Allentown, Pa.

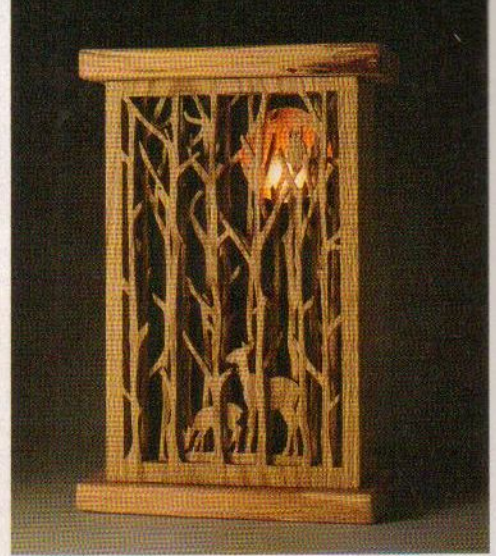
Technical editor Bob Duncan responds: For a different way to cut gears, try Rolf Beuttenmuller's method, which he demonstrated in SSW Summer 2013 (Issue 51,

page 50). However, wooden gears will always need to be adjusted with sandpaper. If you need to lubricate them, use graphite (from a pencil) or wax (even a crayon will work).

Full Moon Nightlight

The Full Moon Nightlight in *Scroll Saw Woodworking & Crafts* Fall 2015 (Issue 60) is a beautiful project, but I'm worried about its long-term safety.

There should be a maximum wattage listed for the light bulb because they range from 25 to 60 watts, and 60 watts is HOT! An LED bulb is the best solution for minimum heat and maximum safety. You can find a lot of good choices online, such as G7 Power's LED 0.5 Watt Lumen C7 Night Light Bulb.



I would also consider drilling vent holes to allow heat from the bulb to dissipate.

John Hutchinson
Delaware, Ohio

Technical editor Bob Duncan responds: We should have listed the wattage for the light bulb used in the Full Moon Nightlight; it was a 7-watt bulb. An LED bulb is also a good choice. Neither gets very hot, but concerned scrollers could certainly drill vent holes if desired.



Chet Zenone's bread basket

Bread Basket with a Leaf Inlay

I've been a scroller for more than 30 years and have been subscribing to *Scroll Saw Woodworking & Crafts* and its predecessors for most of that time. Virtually every issue, including the

latest issue, *SSW* Fall 2015 (Issue 60), contains at least one, and usually several, projects and patterns that take me to the shop and my trusty scroll saw. Within two days of receiving that issue, I completed a bread basket with a leaf inlay from Carole Rothman's pattern.

The variety and quality of the articles and patterns continue to impress and amaze, and certainly support the cover motto that *SSW* is the best magazine for hobby woodworkers. Kudos to the team for a consistent high-quality publication.

Chet Zenone
Salem, Ore.



Fox Hunt

Donna Baltz of Waukesha, Wis., and Lennie Williams of Boise, Idaho, were randomly drawn from the participants who located the fox in our last issue (Fall 2015, Issue 60). The fox appeared on page 10, narrowly missing the wheels of a steam-powered tractor.

Find the fox in this issue, and tell us the page number and location. Two readers randomly selected from all correct replies will receive a \$25 Fox Chapel Publishing gift certificate. Entries must be received by December 1, 2015, to be eligible. *NOTE: The contest fox is an outline drawing that would face left if his feet were on the "ground" (other foxes appearing in SSW&C don't count).*

Send your entry to SSW&C, Attn: Find the Fox, 1970 Broad Street, East Petersburg, Pa., 17520, or enter online at www.ScrollSawer.com.

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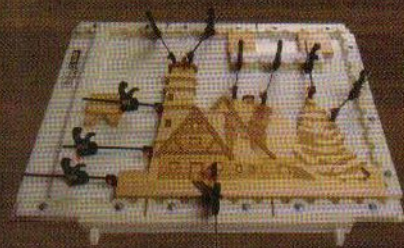
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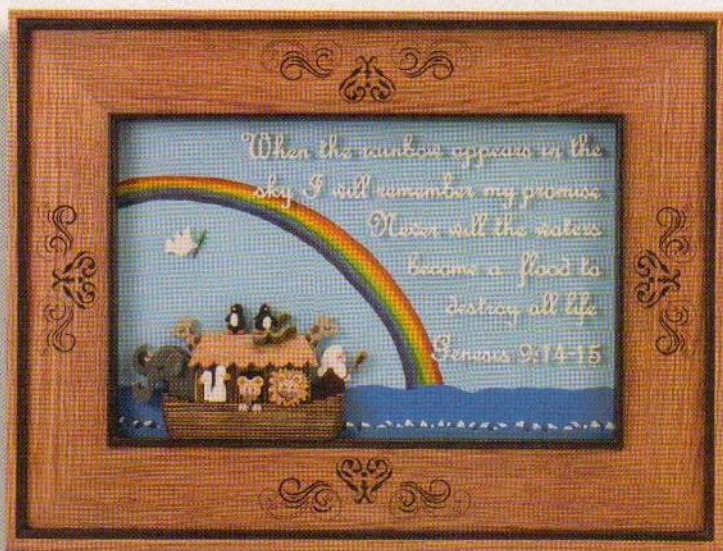
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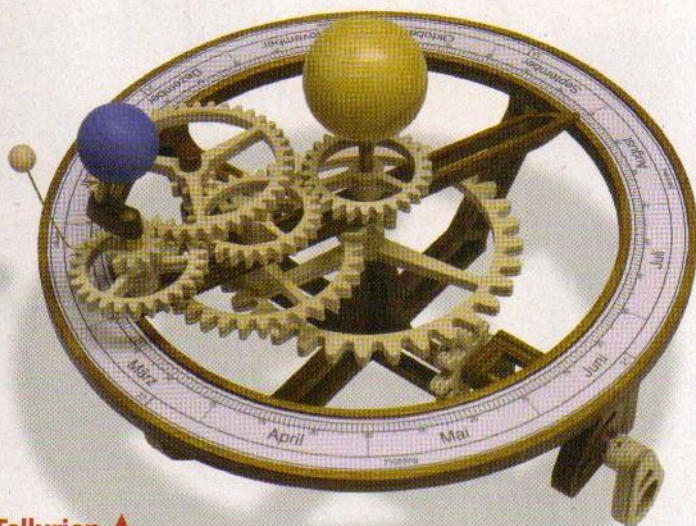
Noah's Ark Intarsia ▲

Jim Gress of Bowmansville, Pa., incorporated Janice Smith's Noah's Ark intarsia, featured in *SSW Summer 2013* (Issue 51), in his multi-media Bible verse scene. Jim won four blue ribbons and one best of show at local county fairs with the piece.



Wavy Bowl ▲

Fred Joest of Sun City Center, Fla., designed this bowl using Dave Van Ess's PolyDraw program (online at scrollmania.com). Fred cut the 8" wavy bowl from maple with a purpleheart rim and finished it with six coats of lacquer spray. The bowl won a blue ribbon at the Florida State Fair.



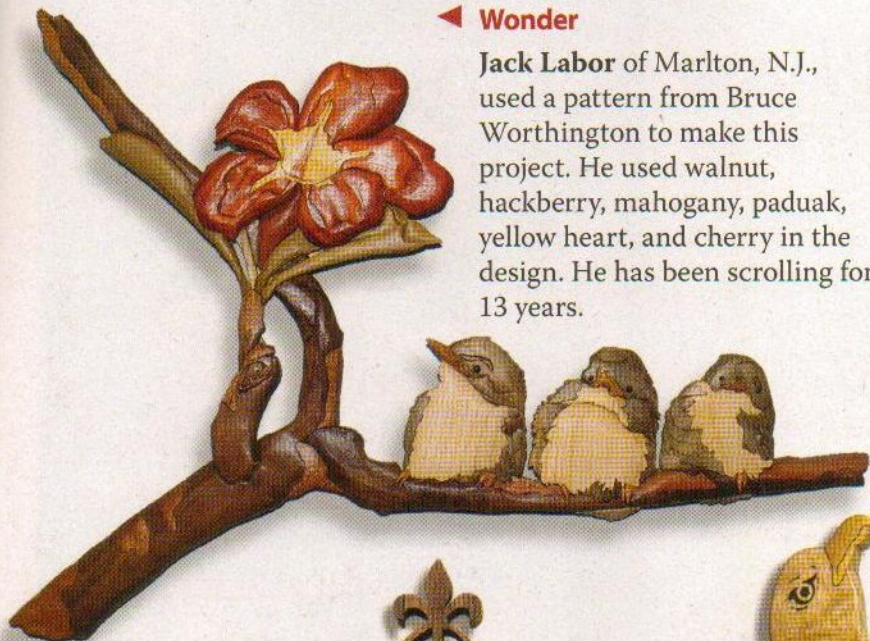
Tellurion ▲

Christopher Blasius of Boerrstadt, Germany, created this tellurion, a device that shows the movements of the earth and moon relative to the sun. It is powered by a hand crank. Christopher also loves to create automata. His "Kat and Maus" project is featured in the 2015 issue of *Gizmos and Gadgets*, available at www.foxchapelpublishing.com. See more of Christopher's work at holzmechanik.de.



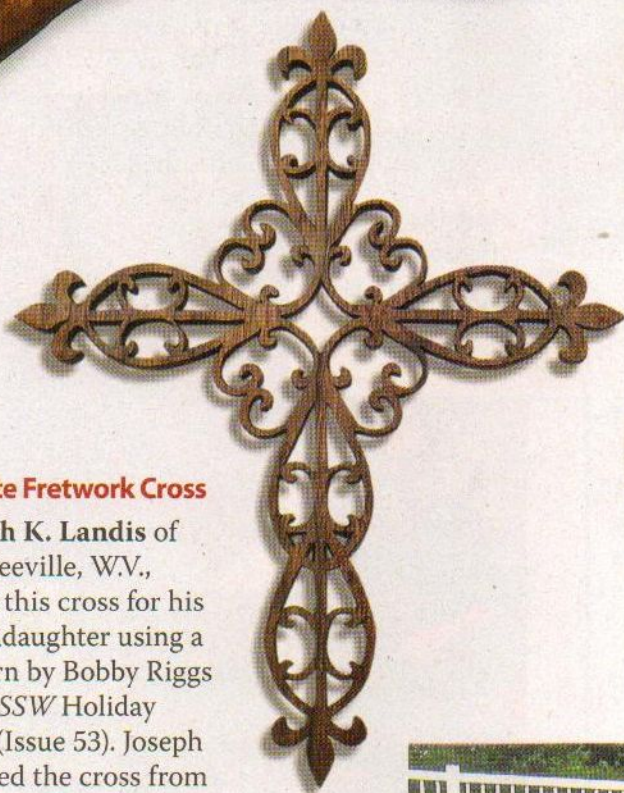
Labor of Love ▲

Ron Jungels of Naperville, Ill., used a Woodworkers Workshop pattern to make this rocking horse for his first granddaughter. He made the 27"-tall horse from recycled pine wood and used leather for the seat. He can't wait for his granddaughter to start enjoying it.



◀ Wonder

Jack Labor of Marlton, N.J., used a pattern from Bruce Worthington to make this project. He used walnut, hackberry, mahogany, paduak, yellow heart, and cherry in the design. He has been scrolling for 13 years.



▶ Ornate Fretwork Cross

Joseph K. Landis of Gandeeville, W.V., made this cross for his granddaughter using a pattern by Bobby Riggs from *SSW Holiday 2013* (Issue 53). Joseph scrolled the cross from black walnut. It won first place at the 2014 Black Walnut Festival in Spencer, W.V.



◀ Electric Bass Guitar

Jory Lane, a 14-year-old from Colorado Springs, Colo., made this guitar for a 4-H project. Jory created the patterns for a neck-through design and chose maple, purpleheart, zebrawood, and walnut for the body. The fretboard is yellowheart, bocote, paduak, lacewood, cherry, and purpleheart repeated into 21 frets. Jory designed the left horn as an eagle head. The guitar won the Grand Champion award at the El Paso County Fair.



◀ All My Love

Vernon Ringsaker of Sykeston, N.D., made this keepsake box from a pattern by Sheila Landry. He's been scrolling for 22 years and loves every bit of it.

Share Your Latest Work!

Send a slide, professional print, or digital image (300 dpi minimum) with 100 words about you and your piece. Include your hometown, the name of the pattern maker, and a list of wood and materials used. Send to Reader Gallery, Scroll Saw Woodworking & Crafts, 1970 Broad Street, East Petersburg, Pa., 17520, or e-mail editors@scrollsawer.com.

Midwest Scroll Saw Trade Show

By Mindy Kinsey

This year's only show dedicated to the scroll saw took place on August 14 and 15 in Dubuque, Iowa. It was hosted by the Veterans Freedom Center of Dubuque and Karen Boelman of The Art Factory (in memory of her husband, Dirk Boelman).

This show has a long history and there are few scroll saw shows left in America, so it was great to get together with friends and fans from across the country. The planners included vendors with wood, patterns, and saws; classes on intarsia, bowls, pyrography, and more; bragging tables; a contest; a group dinner; and doorprizes. Hawk Woodworking Tools and PS Wood Machines both donated grand prizes for attendees, which were won by Bob Beach and Ray Lupori.

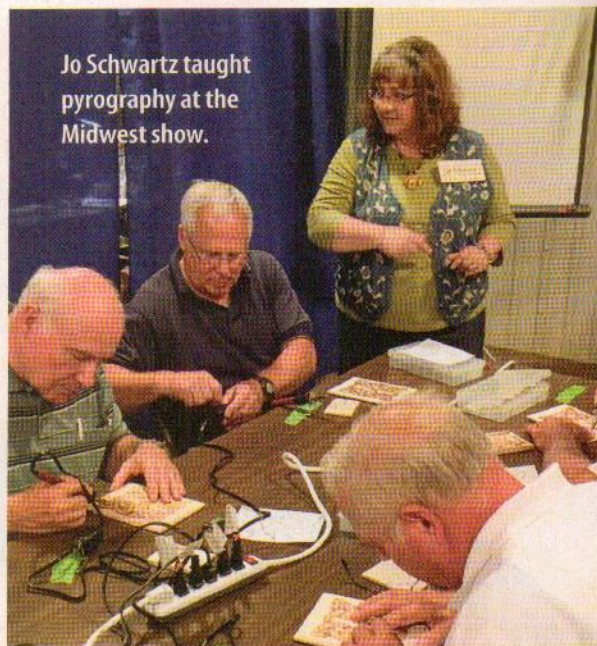
Many gorgeous projects were displayed on the bragging tables and as contest entries. Among the contest winners were Will Burgess (Best in Class Basic and Junior Scroller); Donna Baltz (Best in Class Intermediate); Dale Sasala (Scroller's Choice); and Ashley Kleoppel (Best in Class Complex and Best of Show).

The show celebrated our nation's veterans in several ways. Attendees at the Friday night banquet were treated to a video about the Veterans Freedom Center, and a tour of the center was also offered. Seyco donated a new Excalibur 30th Anniversary Limited Edition scroll saw for a drawing exclusively for veterans, won by Randy Rennison. A Quilts of Valor organization offered handmade quilts to veterans of any age and branch of service.

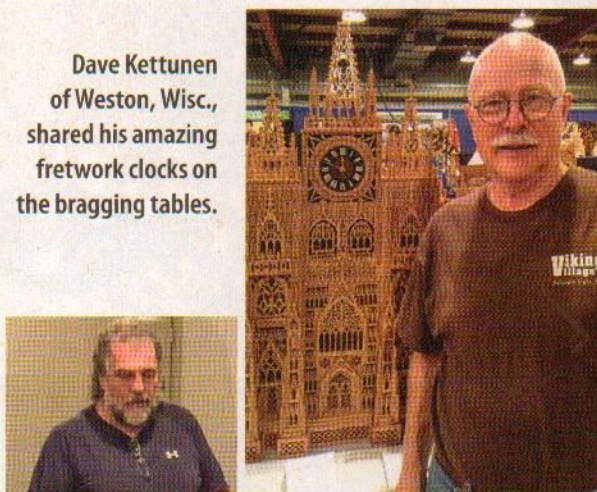
The Art Factory (www.theartfactory.com) and the Veteran's Freedom Center (www.veteransfreedomcenter.com) extend their thanks to all who attended and invite you to Dubuque in August 2016. Learn more at the show's website, www.midwesttradeshow.com.

Correction

The Fox Chapel Publishing Open House will take place on May 13-14, 2015, NOT Mother's Day weekend as previously announced. We apologize for the error and look forward to seeing you next spring.



Jo Schwartz taught pyrography at the Midwest show.



Dave Kettunen of Weston, Wisc., shared his amazing fretwork clocks on the bragging tables.



Rick Bartels shared methods for making wooden bowls and vases.

SAW 2016 Expo

The Scroll Saw Association of the World (SAW) is celebrating 18 years of scrolling with the 2016 S.A.W. Expo. The event will be held on July 8 and 9, 2016, at the Ramada Plaza Hotel & Oasis Convention Center in Springfield, Mo. It will include vendors, seminars, and a banquet. All scrollers are welcome—watch the SAW website for more information.

Mark your calendars, and visit www.saw-online.com for more information. You can also keep up with the group on Facebook: www.facebook.com/groups/SawAssociationWorld.



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Clamps for Scrolling 3-D Projects

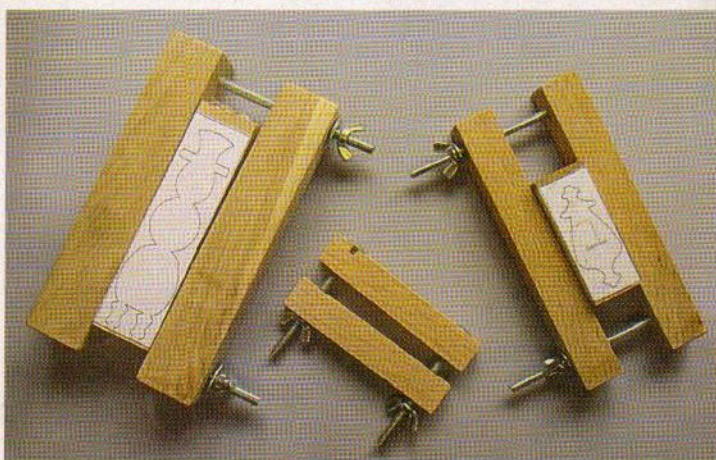
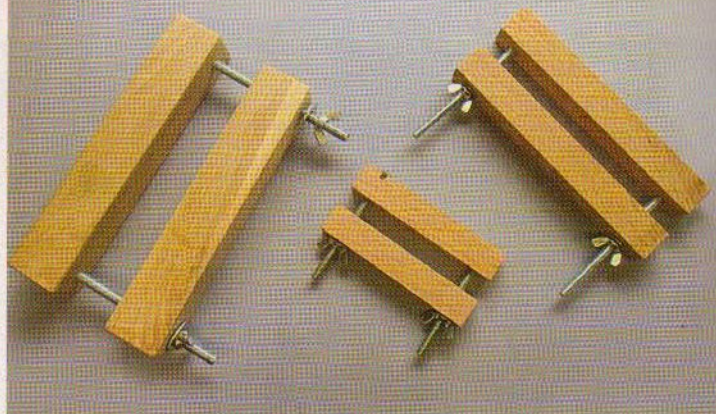


Cutting compound projects can be tricky. Even though I always wrap the blank in clear packaging tape,

I have trouble keeping constant pressure on a project so it stays together while I cut the second side. I made clamps from blocks of wood, carriage bolts, washers, and wing nuts. They hold projects firmly and give me a bigger piece to hold, plus keep my fingers and knuckles away from the scroll saw arm, thumb screw, and blow tube.

I made clamps in the lengths I use most often. When you measure the wood, make sure you leave at least $\frac{3}{4}$ " (19mm) at each end so you don't hit the carriage bolt when you cut the clamped project.

Gary Freier
Geneva, Ill.



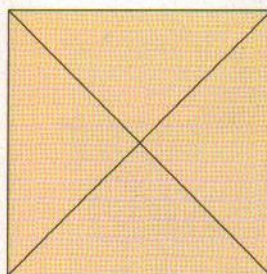
Make simple clamps to hold compound projects and keep your hands away from the blade when you're cutting small pieces.

Cut an Octagon from a Square

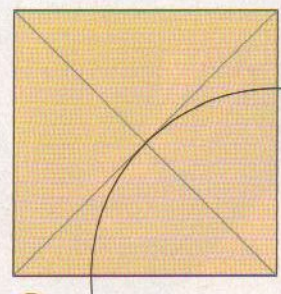
Here's a method to cut a perfect octagon from a square. You'll need a compass, a pencil, and a square piece of wood.

1. Draw diagonal lines that connect each corner.
2. Use the center mark created by the two diagonal lines to set the distance for a compass. Use the compass to draw an arc. The highest point of the arc should run through the center.
3. Draw the remaining three arcs. Then, draw red lines to connect the ends of the arcs.
4. Cut off the corners created by the red lines, and you have your octagon!

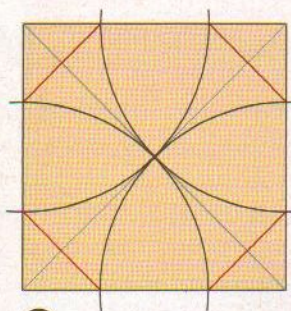
Dave Van Ess
Chandler, Ariz.



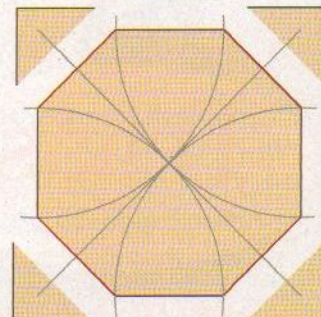
1



2



3



4



TOP TIP in our Spring Issue wins a \$25.00 Fox Chapel Publishing Gift Card. Send your tips or techniques to: Info Exchange, *Scroll Saw Woodworking & Crafts*, 1970 Broad Street, East Petersburg, Pa., 17520, or e-mail Editors@ScrollSawer.com.

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Royal-Lac combines the look of a classic shellac finish with the ease of application and durability of other modern finishes. It goes on easily and each coat levels the previous one, which means that even novices will get a nice finish every time.

The product was developed by a furniture maker and teacher, Vijay Velji of San Diego, Calif. Vijay was disappointed by the shellac flakes available from most retailers because their unknown age made dissolving them in alcohol unpredictable. He built relationships with the shellac harvesters and manufacturers, and started selling high-quality shellac through his business, Shellac Finishes, with a freshness date and guarantee on every package. Along the way, Vijay found that many people were looking for a finish with the look of shellac and the ease of a modern synthetic finish. In response, he developed Royal-Lac.

Using the Royal-Lac was effortless. I applied thin coats of the spray version, allowed it to dry for 45 minutes between coats, and slowly built up a smooth, beautiful finish, even on an irregular surface. While the gloss and low-gloss spray finishes use blonde shellac, different colors are available in the brush-on finishes. Unlike a pure shellac finish, which can be considered food safe as soon as it dries (and it dries quickly), the synthetic resins added to Royal-Lac make the finish food safe only after it cures totally, which takes 15 to 20 days, according to the label.

Royal-Lac is available as a brush-on or spray-on finish (I recommend the spray for scrollers). The prices start at \$16.95 for a can of spray finish and \$22.95 for a pint of brush-on finish. Order online at www.shellacfinishes.com.



“Using the Royal-Lac was effortless.”



The Piranha FX combines a CNC router, a laser engraver, and a 3-D printer in one compact desktop unit.

Piranha FX

The Piranha FX by NextWave Automation combines a CNC router, laser engraver, 3-D printer, and a digitizer in a compact desktop unit. It is powerful and versatile enough to make prototypes and scale models of almost any project. The unit comes with a touch-screen controller that allows you to position the tool holder easily and has a place to insert a USB drive, so you have the option to keep your computer away from damaging dust.

I was impressed with how easy the unit was to set up and start using. I cut a wooden gear with the CNC within an hour of receiving the unit. Due to production demands, I was only able to test the CNC and laser modules. A forthcoming 3-D printer module will allow you to create prototypes and embellishments using plastic filament, and the digitizer module will scan and digitalize an existing project for easy reproduction.

For a full review of the Piranha FX (including the 3-D printer module and digitizer, as soon as I receive them), visit our website at www.scrollsawer.com.

For more on the Piranha FX, visit www.nextwaveautomation.com.

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val·ue (vāl'yoo) n. - An amount considered to be a fair and suitable equivalent for something else; a fair price or return, i.e., "Exceptional performance that continues for decades makes HEGNER Saws an unparalleled value among their peers."

sat·is·fac·tion \sə-təs-'fak-shən/ n. - a happy or pleased feeling, i.e., "Desirable features and superior results provide lasting, everyday satisfaction for owners of HEGNER Saws."



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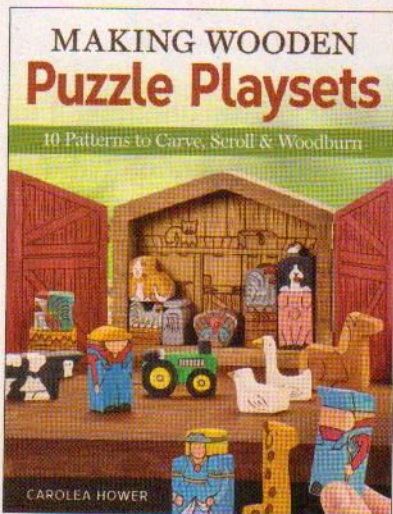
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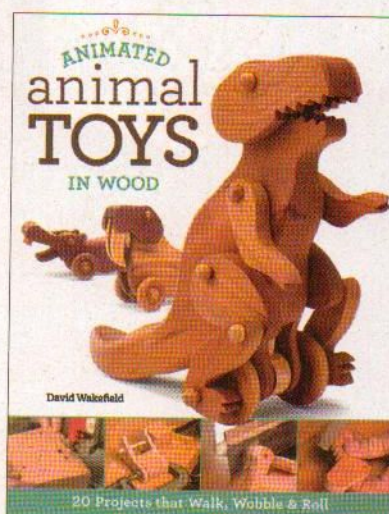
woodfromthewest.com



Making Wooden Puzzle Playsets
10 Patterns to Carve, Scroll & Woodburn
By Carolea Hower

Ready to exercise your hands and your brain? Check out Carolea Hower's clever wooden puzzle playsets. Equal parts brainteaser and toy, these self-contained playsets will entertain kids and kids at heart. Carolea offers 11 original patterns, including a farm in a barn,

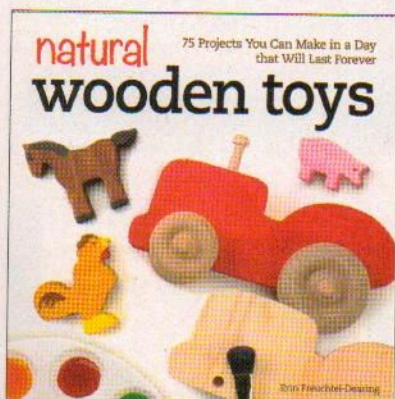
dragons in a cave, princess in a castle, Santas at the North Pole, the nativity in the manger, and more. Complete instructions for cutting, painting, and optional carving are included. ISBN 978-1-56523-8664; \$16.99



Animated Animal Toys in Wood
20 Projects That Walk, Wobble & Roll
By David Wakefield

This is the ultimate pull-toy DIY guide. Not only does David Wakefield share patterns for 20 heirloom toys, but he also delivers nearly 40 pages of information about tools, wood choice, construction, and design tips. Whether you want to make these

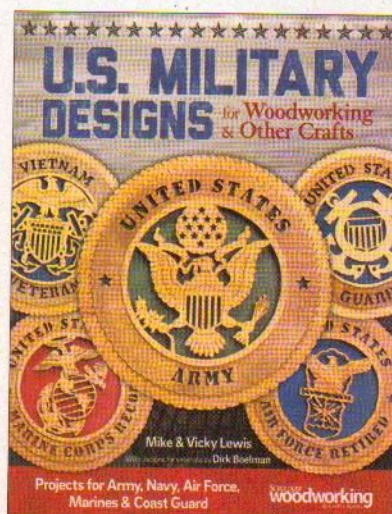
patterns or design your own, this book will make you an expert. Projects include a hippo, frog, duck, skunk, kangaroo, shark, wolf, turtle, and five dinosaurs. ISBN 978-1-56523-8442; \$22.99



Natural Wooden Toys
75 Projects You Can Make in a Day That Will Last Forever
By Erin Freuchtel-Dearing

If you're looking for easy toys to make for and with children, you can't go wrong with this book. It is packed with patterns in

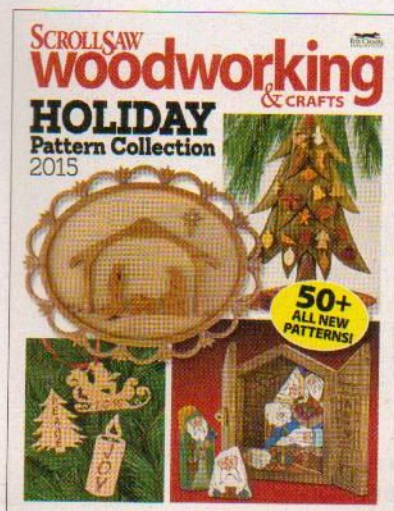
fairytale, forest, farm, ocean, and city themes. Plus, it is a treasure trove of information for new woodworkers, including sections about tools, blades, selecting wood, and even making your own dyes and stains. ISBN 978-1-56523-8732; \$19.95



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World War I to Enduring Freedom. This completely revised and expanded edition contains updated instructions and redrawn patterns, as well as bonus patterns for ornaments and additional plaques. ISBN 978-1-56523-8695; \$14.99

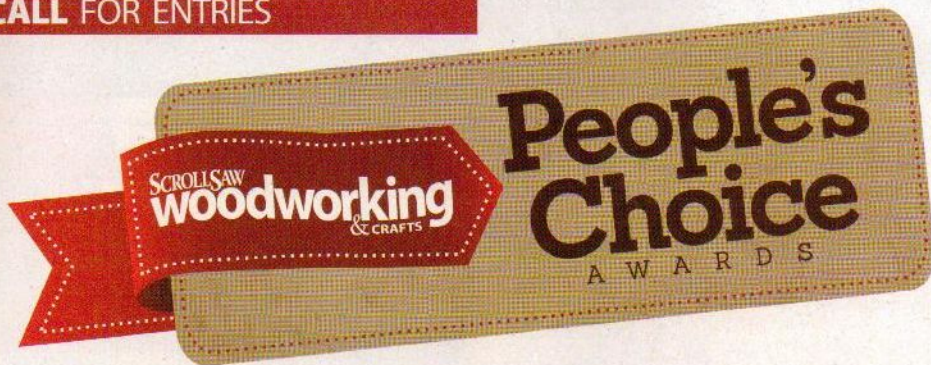


Holiday Pattern Collection
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Want even more holiday patterns? The first-ever digital edition of SSW is packed with 11 all-new projects totaling 50+ patterns. It includes ornaments, a nativity plaque, an intarsia advent calendar, and even one of Carolea Hower's puzzle playsets (see above). You can download it right now to print at home or mail-order a preprinted version. Download at www.foxchapelublishing.com; order a printed copy online or by calling 1-800-457-9112. \$9.99

Where To Buy

Fox Chapel Publishing books are available at your local retailer. Or, you can call us at 1-800-457-9112 (8:30am-5pm EST Monday-Friday). Order online any time at www.foxchapelublishing.com.



Do you have a great new project design you can't wait to share with the world? This is your chance to show it off—and maybe collect some cash! Presenting the 2016 *Scroll Saw Woodworking & Crafts* People's Choice Awards.

New This Year:

- **Instead of one big contest, we'll be running small contests all year, one or two categories at a time.** You'll know the deadlines ahead of time and be able to plan your entries in advance.
- **Cash prizes!** Winners in each category will receive \$50 for first place, \$30 for second place, and \$20 for third place. Special thanks to our friends at *The Wooden Teddy Bear* and *Mike's Workshop* for sponsoring the prizes for Contest 1 – Toys & Games.

How It Works:

- Submit as many entries as you like during the entry period for the each contest—it's always free to enter! Then, the staff of *Scroll Saw Woodworking & Crafts* magazine will choose up to 10 designs in each category.
- The Editors' Choice Award winners will be posted on our website to compete for the People's Choice Awards via public voting. Vote for your favorites, and share the contest with your friends so they can vote, too!
- The People's Choice Award winners will be published in *Scroll Saw Woodworking & Crafts* and announced on the magazine website. We'll send those cash prizes and a nice certificate for your wall.
- Plus! All entries will be considered for possible paid publication as projects in *Scroll Saw Woodworking & Crafts*.



Special thanks to our friends at The Wooden Teddy Bear and Mike's Workshop and for sponsoring the cash prizes for the first contest!

Categories and Deadlines

The theme for the first contest is Toys & Games. Puzzles, board games, traditional games, cars, pull toys ... you name it. We're looking for your best Toys or Games. Size, shape, and even material don't matter, but the majority of the shaping must be done with a scroll saw.

Toys & Games not your thing? Start planning your entries for the next contest! (Please help us stay organized by waiting for the entry period for each contest to send your photos.)

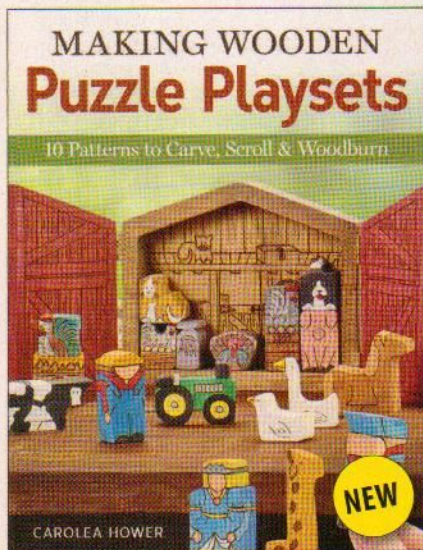
Contest	Category	Entry Period	Online Voting	Winners Published
1	Toys & Games	October 15 – December 15, 2015	January 1-15, 2016	Summer 2016 issue
2	Jewelry OR Functional: Workshop (items to use in your shop)	January 15 – March 15, 2016	April 1-15, 2016	Fall 2016 issue
3	Ornaments: Painted & Unpainted	April 15 – June 1, 2016	June 15-30, 2016	Holiday 2016 issue
4	Functional: Kitchen or Office (items to use in either room)	July 15 – September 15, 2016	October 1-15, 2016	Spring 2017 issue

Entry Information:

- Please send one high-resolution or professionally printed photo of your entry, along with the following information: Category (Toy or Game), project name/description, size, type of wood and finish, rules if applicable (not required for traditional games like chess), and story/inspiration, if any. Also, include your name, address, and e-mail address. If you do not have e-mail, include a phone number instead. See the Rules for important entry details (visit online, or send an SASE to request a printed copy).
- E-mail your entries to: editors@scrollsawer.com with a subject of "SSW Contest #Toys16." Or, mail to: SSW Contest #Toys16, Fox Chapel Publishing, 1970 Broad St., East Petersburg PA 17520. Entries must be received by December 15, 2015.
- All entries must be original designs created by the entrant. They cannot be made from, inspired by, or variations of anyone else's pattern; they cannot be class projects; no one else can have helped with the project. By entering, you verify that your entry is your own creation.

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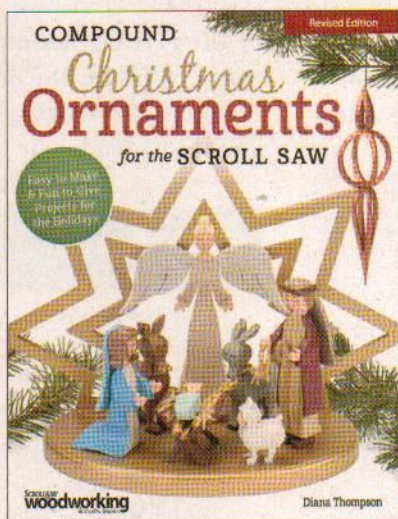
Making Wooden Puzzle Playsets

10 Patterns to Carve, Scroll & Woodburn

By Carolea Hower

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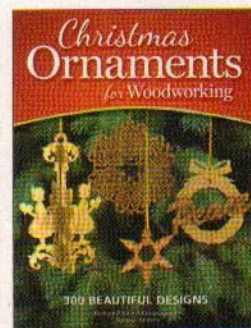
Big Book of Scroll Saw Puzzles

More Than 75 Easy-to-Cut Designs in Wood

By Tony & June Burns

Make beautiful freestanding art puzzles on your scroll saw. This big book offers 75 shop-tested and ready-to-use patterns, plus step-by-step instructions for cutting, staining, and painting.

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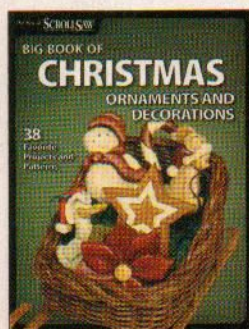
Christmas Ornaments for Woodworking, Revised Edition

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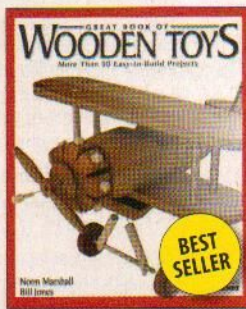
Big Book of Christmas Ornaments and Decorations

38 Favorite Projects and Patterns

By the editors of Scroll Saw Woodworking & Crafts

Create holiday masterpieces for home, family and friends with these scroll saw projects and patterns featuring fretwork, compound-cuts, intarsia, inlay, and more.

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Great Book of Wooden Toys

More Than 50 Easy-to-Build Projects

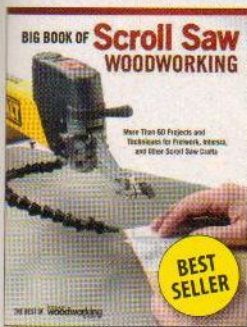
By Norman Marshall

Over 50 easy-to-follow projects for building classic wooden toys, including a Model T car, a bulldozer, steam engine, biplane and many more.

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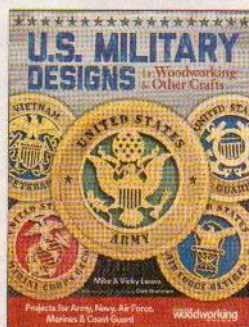
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By the editors of Scroll Saw Woodworking & Crafts
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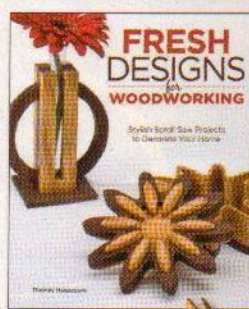
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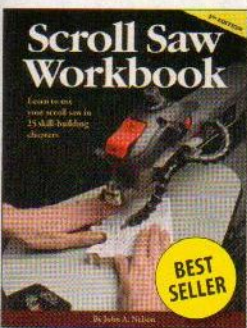
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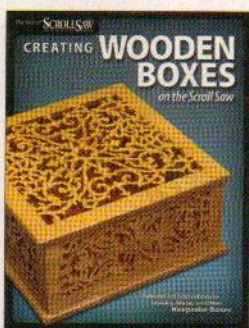
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By John Nelson
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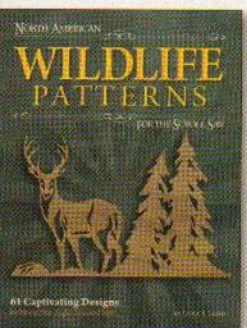
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Creating Wooden Boxes on the Scroll Saw
Patterns and Instructions for Jewelry, Music, and Other Keepsake Boxes

By the editors of Scroll Saw Woodworking & Crafts
 Make a beautiful variety of music boxes, desktop organizers, storage cases, memory boxes, and more, with these 26 outstanding projects.

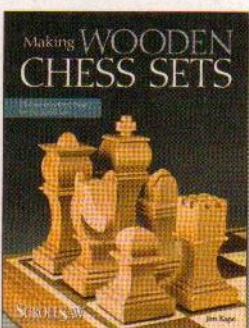
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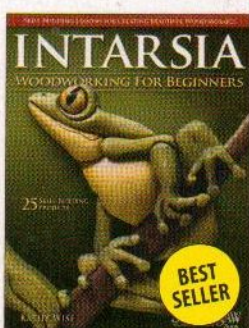
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By Jim Kape
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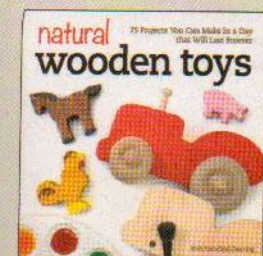


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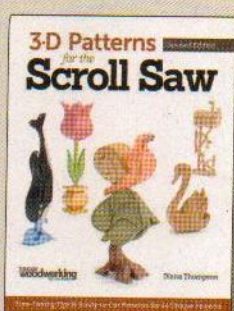


Natural Wooden Toys
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By Erin Freuchtel-Dearing
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"A comprehensive beginner's book for making beautiful wooden toys for children" —*The Old Schoolhouse*

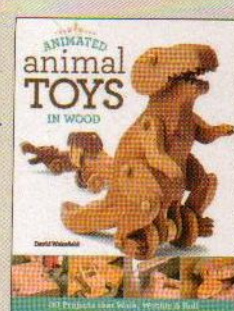
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Hark!

**A Herald
Angel**





Freestanding intarsia angel is a divine addition to your Christmas décor

By Kathy Wise

Whether you make this angel as a guardian or to bear tidings of great joy, she will be a divine addition to your décor. Intended as an supplement to your heirloom nativity, this angel is also lovely alone. You can also reduce the size (and detail) of the pattern and create an entire host of angelic ornaments.

To make this freestanding 3-D figure, you will essentially make two intarsias and glue them together, eliminating the need for a backing board. For a simpler project, cut and shape just the front and attach it to a backing board.

The basic steps for creating any intarsia are pretty much the same, so I will focus on shaping, fitting, and gluing the wings.

ANGEL: CUTTING THE PIECES

Step 1: Make four copies of the pattern. Cut each pattern piece and sort them into groups based on the wood color. Apply spray adhesive to the back of pattern pieces and stick them to the shiny side of Con-Tact brand clear shelf paper. Cut out each paper pattern piece section.

Cut the pieces using a #5 reverse tooth blade. Cut the ¼" (6mm)-thick risers noted on the pattern. Place all of the cut pieces on the pattern. Mark the numbers on the bottoms with a pencil and check the fit. Make adjustments as needed. For a simpler project, eliminate the risers.

ANGEL: SHAPING THE INTARSIA

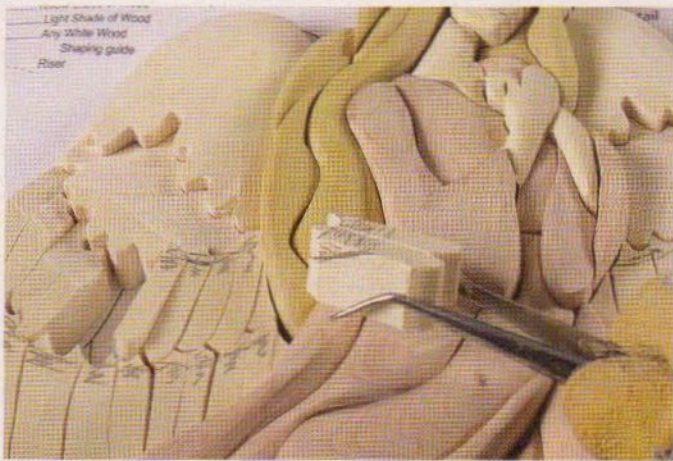
Step 2: Shape the gown, face, and hair first, saving the wings for last. I used a drum sander to do most of the shaping. Mark the sanding levels using the shaping guide. Then, starting with the lowest (thinnest) pieces, sand down to the lines, always keeping the line side up and in sight. Use an oscillating spindle sander or rotary tools to round the inside edges.



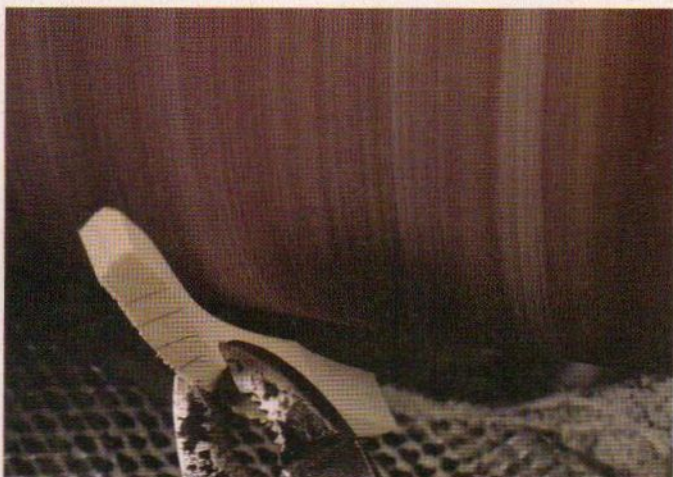
▲ Step 3: Taper the pieces on the risers to the levels of the closest pieces. Then, taper the edges of the back pieces.



▲ Step 4: Shape the larger sections of the wings. Start with the largest sections on the front (1, 2, 24, 25). Do not sand down more than ¼" (6mm). Shape the similar pieces on the back (76 to 79, 91 to 94).



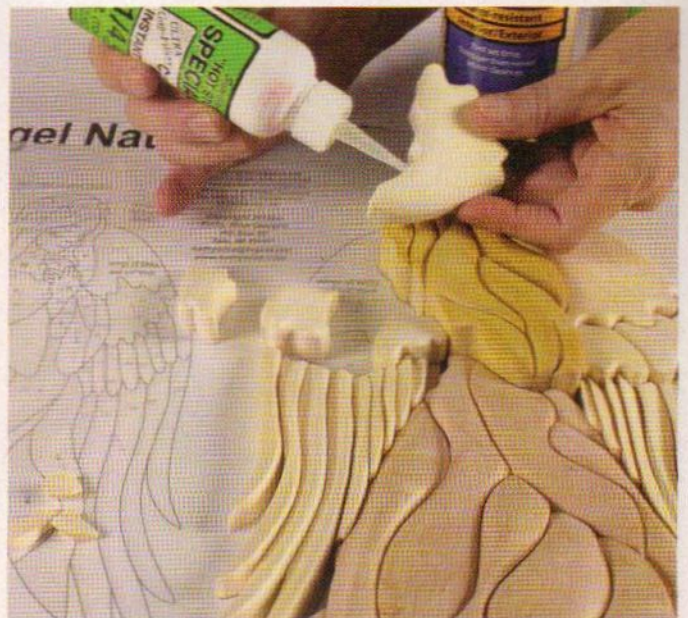
▲ Step 5: Shape the individual feathers. Start with sections 3 to 13. Mark a 45° angle onto the side of the top section of each feather. Hold two pieces at a time with forceps or pliers and sand down to the line with a pneumatic drum sander with a 100-grit drum. Replace the feathers and repeat the process for all of the feathers on the front and back. This helps it look like the feathers fit in under the feathers above them.



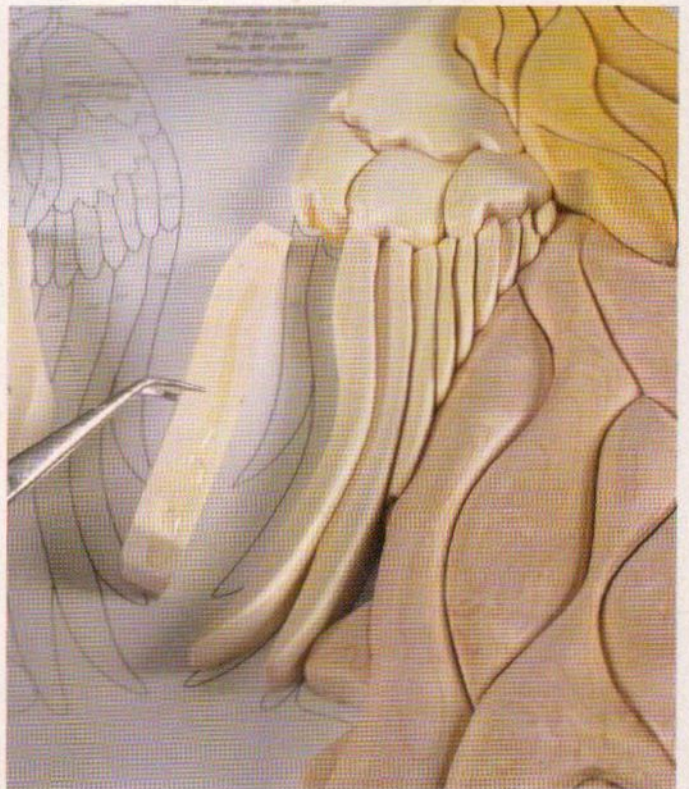
▲ Step 6: Refine the feathers. Mark the flow and shape of the feathers using the shaping guide. Rough-shape the feathers with the 100-grit drum. Use the 220-grit drum to soften the edges and remove any scratches the rougher grit left.

ANGEL: ASSEMBLING THE PIECES

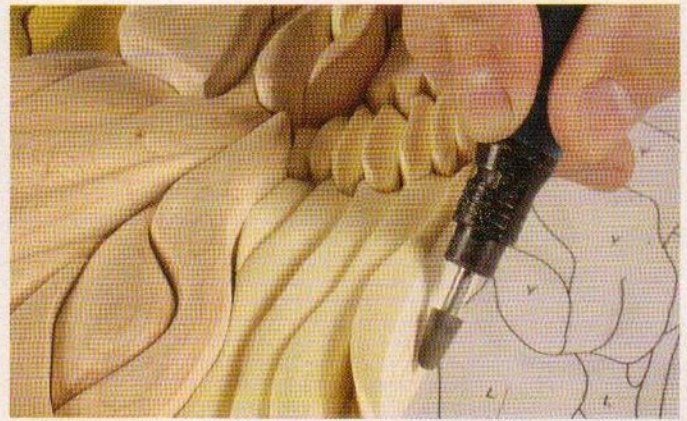
Step 7: Dry-assemble the pieces and check the final fit. Buff them with a sanding mop. Use a woodburner to draw the face. Tack the body, hair, and head pieces together using a few dots of cyanoacrylate (CA) glue between each piece. Then, glue three to four pieces of the gown together at a time. Allow the CA glue to set before moving on to the adjoining pieces. Don't use so much glue at the edges that it oozes out when you press the pieces together.



▲ Step 8: Attach the large feather sections. Use CA glue to attach the top wing sections (1, 2, 24, 25, 76, 77, 78, 79, 91, 92, 93, 94) to the hair and gown. Put the other feathers back in place so you don't shift the pieces and have a poor fit. Let it dry for five minutes.



▲ Step 9: Add the remaining feathers. Apply glue to the top edges, and use forceps to place them in position against the row above it. Don't glue the bottom edges; you want to use this side to press the feathers into place. Glue the feathers to the riser and the edges of the adjoining pieces. Use the same process to add the rest of the feathers.



▲ **Step 11: Refine the edges.** Use a rotary tool to sand the edges so they taper together. Buff the edges with a sanding mop, and hand-sand the tight spots. Fill any gaps with CA glue mixed with sawdust and re-sand the area. Sand the bottom of each figure so it will stand flat. Spray all pieces with clear satin spray finish, following the manufacturer's instructions. Let it dry overnight.

Patterns for the **HERALD ANGEL INTARSIA** are in the pattern pullout section.

Materials & Tools

Materials:

- White wood, such as holly, $\frac{3}{4}$ " to 1" (19mm to 25mm) thick: face & hands, 3" x 3" (76mm x 76mm)
- Light wood, such as wavy figured maple, $\frac{3}{4}$ " to 1" (19mm to 25mm) thick: dress, 8" x 18" (203mm x 457mm)
- White wood, such as aspen or poplar, $\frac{1}{2}$ " (13mm) thick: wings, 8" x 18" (203mm x 457mm)
- Yellowheart or your choice of wood color, 1" (25mm) thick: hair, 6" x 7" (152mm x 178mm)
- Glue: cyanoacrylate (CA); wood
- Clear shelf paper, such as Con-Tact brand

- Spray adhesive
- Finish: clear satin spray
- Waxed paper

Tools:

- Scroll saw blades: #5 reverse-tooth
- Sanders: pneumatic drum, oscillating spindle, portable drum, sanding mop
- Rotary tool with bits
- Woodburner with tips
- Forceps

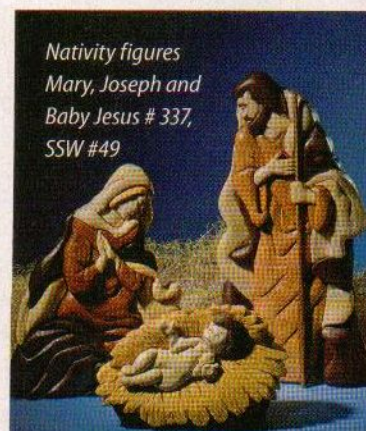
The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.



▲ **Step 10: Glue the front and back together.** Sand the backs of the front and back flat on a portable drum sander, such as a Sand-Flee. It is important to have two flat surfaces to glue together. Use dots of CA glue and dots of wood glue. Alternately, tack together the entire front section, and use it like a backing board as you glue the back pieces directly to the front. Clamp the edges together to get a tight fit, and let the glue dry for 15 minutes.



Nationally acclaimed intarsia artist Kathy Wise has written three books and more than 40 articles. For a free catalog of 500 patterns, contact Kathy Wise Designs Inc., P.O. Box 60, Yale, Mich. 48097; fax 810-387-9044; www.kathywise.com; kathywise@bignet.net.



Nativity figures
Mary, Joseph and
Baby Jesus # 337,
SSW #49

Decorating with Winter Birds

Use these versatile fretwork designs as ornaments, centerpieces, or wall hangings

By Alison Tanner

These birds are perfect for holiday decorating. While they can be challenging as ornaments, you can make them any size you like; the larger you make them, the easier they are to cut.

Making the Ornaments

To protect these delicate designs, cut stack that are at least $\frac{3}{4}$ " (19mm) thick (see page 70 for stack-cutting methods). A thicker stack slows the blade's cutting speed, allowing you to better predict how fast you can feed the wood into the blade. It also supports fragile areas.

After cutting, finish as desired. Make these designs your own by adding some color to the birds, evergreen needles, or pinecones with dye or acrylic paint, or by painting facial features onto the birds. Or, leave the pieces the natural color of the wood and apply a clear finish.



Alison Tanner began cutting paper at the age of 8, inspired by a visit to the home of fairy-tale writer Hans Christian Andersen in Denmark. Alison is the owner/creator of Papercuttings by Alison,

which carries the largest variety of patterns and supplies for the scissorist. For more of her work, visit www.papercuttingsbyalison.com.



Materials & Tools

Materials:

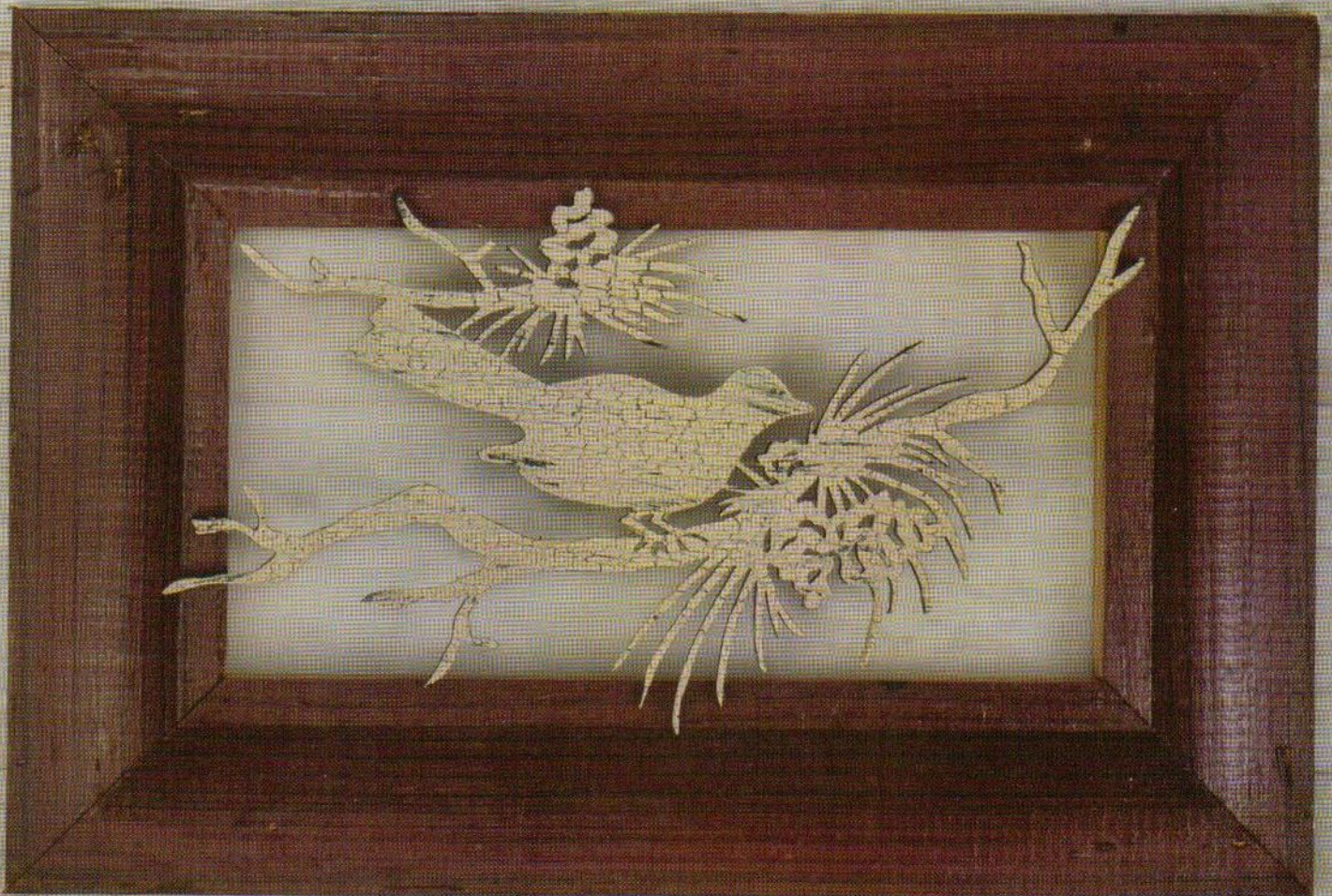
- Wood: assorted sizes and thicknesses up to 6" x 10" (152mm x 254mm)
- Sandpaper
- Clear finish
- Acrylic paints or dyes

Tools:

- Scroll saw blades: #0 or #2/0 reverse-tooth
- Drill with assorted small bits
- Paintbrushes

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.

Patterns for the **WINTER BIRDS** are in the pattern pullout section.



Wish Upon A Star

Word art puzzle is a great gift any time of year

By Tim Gilman

This puzzle is perfect for small princesses, big dreamers, and everyone in between. My wife and I created the design during a brainstorming session. I had used hearts as the keys in another puzzle, so we decided I should try stars. But what went with stars? “Wish” of course! Then, we decided the “I” could double as a wand with a star on the end. With the help of Adobe Illustrator, I tinkered with the design until I had what you see here.

Making the Puzzle

Sand the wood, cover it with blue painter’s tape, and attach the pattern. Make sure the table is square (see page 70). Drill a blade-entry hole and cut the inside of the star. Then, cut the outline of the pattern. Use a new blade to cut the puzzle pieces one at a time. Remove the pattern and buff each piece with a 180-grit sanding mop. Soak the puzzle pieces in finish (I use General Finishes Arm-R-Seal), dry them with a high-quality paper towel, and leave them on a drying rack overnight.

Tips for Perfect Puzzles

- **Sand the wood:** I sand the entire board, not just what I need for the puzzle, using a random-orbit sander and progressively finer sandpaper up to 180 grit. Not only is the puzzle easier to cut and finish, but I’m prepared the next time I want to cut a puzzle from that board.
- **Test the fit:** Make sure the star tabs fit from both sides, which ensures the saw blade is perpendicular to the table.
- **Protect the pieces:** The sanding mop can launch pieces across your shop. Catch them by hanging a sheet from spring clamps screwed to the ceiling; in addition, I covered the floor with rubber tiles to cushion the falling pieces.
- **Soak the pieces:** Create a thicker protective coating on your puzzle by soaking the pieces in finish for 15 minutes instead of just wiping on a single layer. Then, keep the finish looking great by drying them with high-quality paper towels that don’t shed.
- **Control spray adhesive:** Place the wood and pattern in a clean pizza box. Apply spray adhesive to both items; the open lid and the sides of the box contain most of the overspray. Then, close the box to keep dust from collecting in the oversprayed adhesive.

Materials & Tools

Materials:

- Yellowheart, ¾" (19mm) thick: 7½" x 7½" (190mm x 190mm)
- Sandpaper
- Spray adhesive, such as Weldwood
- Blue painter’s tape
- Finish, such as General Finishes Arm-R-Seal
- Paper towels, such as Bounty

Tools:

- Blades: #5 premium, such as Pegas Modified Geometry
- Sanders: random-orbit, 180-grit mop
- Drill press with bits: ¼" (2mm) dia.

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.



A clean pizza box makes a great little spray booth.

The pattern for *WISH UPON A STAR* is in the pattern pullout section.



Tim Gilman has been teaching middle school tech ed in Harrisburg, Pa., for 11 years. With the birth of his first child, Grayson, he started cutting scroll saw puzzles, which he sells at arts and craft shows and online at www.graysonsworkshop.com. Tim also teaches scroll saw classes at the Harrisburg Woodcraft store.

Deck the Halls

Inspiring ideas for handmade holiday décor

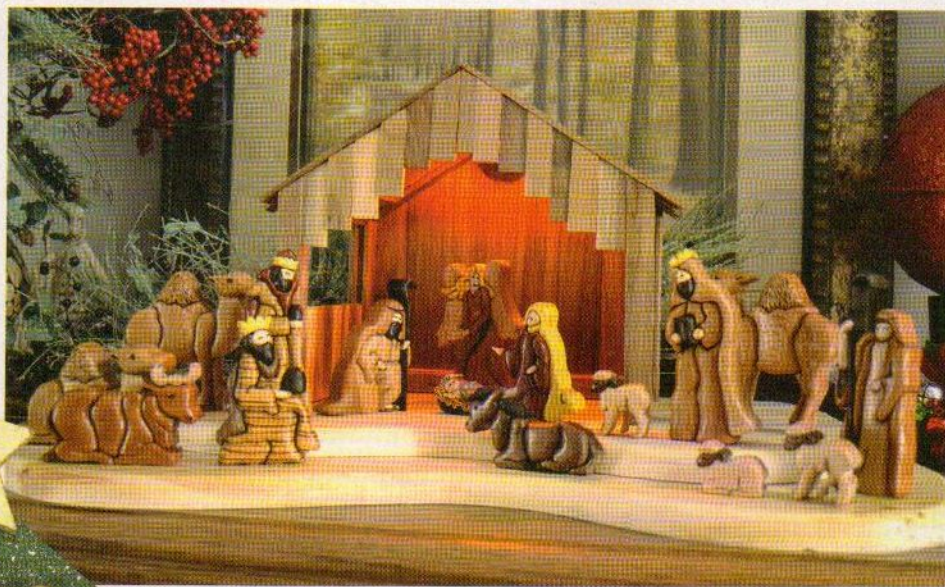
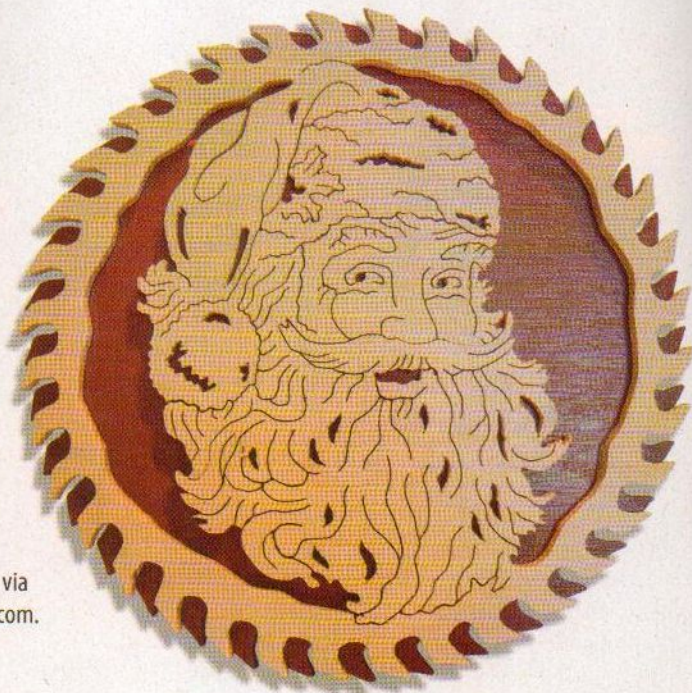
By Kathleen Ryan

Celebrate the holidays with a display of festive handmade scroll saw projects. We hope these examples will inspire you to scroll your way to a merrier, more meaningful holiday season.

Note: These projects are intended as inspiration only. The patterns are not in this issue, nor are they necessarily available from the designers.

SCROLL SAW SANTA

Bill Rybat of Best Darn Crafts in Depew, N.Y., used a pattern by White Tail Designs to make this jolly Santa, 7" by 7". Bill applied eye-catching red acrylic craft paint to the backing and left the rest of the wood natural. Contact Bill via e-mail at rose011602@yahoo.com.



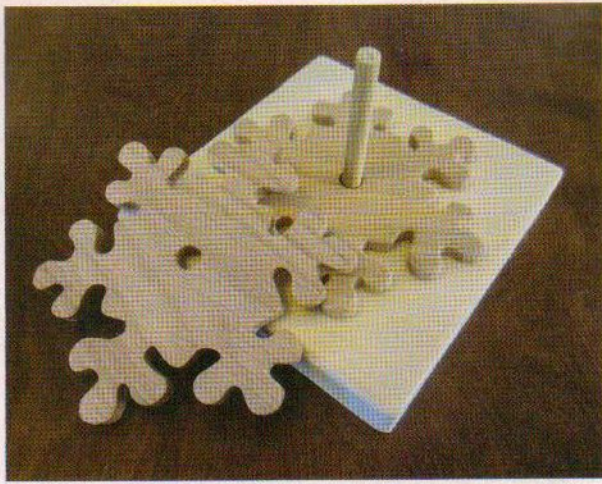
NATIVITY SCENE

Jeremy Walls of Celina, Ohio, adapted ornament patterns from *SSW* (Issue 29) to make this 20-piece intarsia nativity. He designed the stable and base in proportion to the figures. Visit Jeremy online at www.ScrollBench.com.

DOG TREAT CHRISTMAS TREE

Wayne Whitehead of Whitby, Ont., Canada, crafted this adorable dog treat tree, 11" by 11½", using a Sue Mey design. Wayne reports that the project took about two and a half hours to complete and was a huge hit with the family's two dogs. See more of Wayne's work at www.wolfwoodworking.ca.



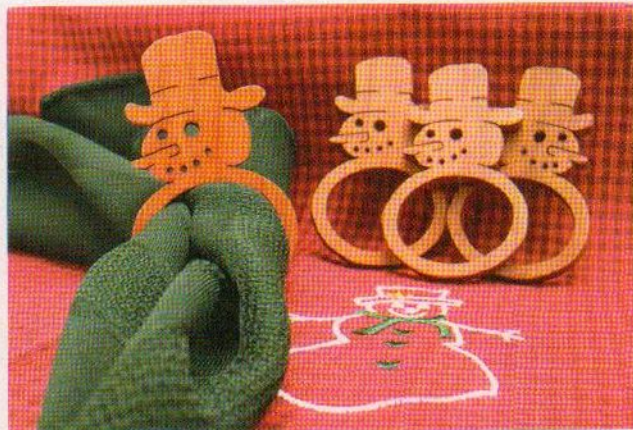


SNOWFLAKE COASTERS

Rest your cocoa cup on one of these stackable 4¾"-diameter coasters, designed and made by Erin Freuchtel-Dearing of Imagination Kids Toys in Carthage, Ind. Erin leaves the coasters natural, but notes they can be stained or finished to match your décor, and the dowel can be cut to fit any number of coasters. See more of Erin's work at www.imaginationkidstoys.com.

CHRISTMAS VICTORIAN SLEIGH

Bill Walker of Summertown, Tenn., made this centerpiece using a design by toymakingplans.com. The sleigh consists of 32 individual pieces and measures 6" by 20". Bill finished it with acrylic paints. Contact Bill at wwalker47@hotmail.com.



SNOWMAN NAPKIN RINGS

These adorable table accents were designed and handmade by Deb and Mick Shambro of Shambro Wood Art in Lexington, Ky. They measure 2" by 3" and were cut from Kentucky cherry hardwood. Contact Deb and Mick via e-mail at shambrola@gmail.com.

MENORAH PUZZLE

Lee Grover of Enterprise, Ore., made this puzzle to help his great-grandson celebrate Hanukkah. Based on a pattern by Judy and Dave Peterson, Lee constructed the puzzle, 7½" by 10", so it could be assembled standing up or lying down. See more of Lee's work at www.leegrover.etsy.com.



Easy Intarsia Ornaments



Make gorgeous gifts from your scrap wood

Designs by Bruce Worthington

Text and ornaments by Janette Square

Spend time, not money, on gifts this holiday season by using your scrap wood to make these heirloom ornaments. The designs look great but are simple to make, and they are small enough to shape with basic sanding tools or a rotary tool. If you prefer, skip the hanger and transform the finished pieces into magnets or wall hangings.

Making the Ornaments

These designs are surprisingly easy to make. I started with $\frac{3}{4}$ " (19mm)-thick wood, which gives me more space to add depth and dimension. Of course you can use thinner wood if you like. Just be aware of the thickness of each piece while shaping so you can add dimension to the finished projects. I have included some angled photos for shaping reference.

Pay special attention when shaping the flower and leaf areas of the candle. Study the flower petals to see which ones should appear to be in front of the others. The petals that appear closest to you should be thicker, and the petals behind the others should be thinner. This enhances the three-dimensional look that we strive for when creating intarsia pieces.

To make these designs into ornaments, add a screw eye and hanging ribbon to the top of each. For magnets, drill a hole in the back and attach a rare earth magnet with epoxy. For a wall hanging, attach a hanger of your choice to the backing board.



Materials & Tools

Materials:

- Colorful wood scraps, $\frac{3}{4}$ " (19mm) thick: I use aromatic red cedar, green poplar, cherry, alder, aspen, Peruvian walnut, figured maple, curly maple, butternut, and yellowheart.
- Baltic birch plywood, $\frac{1}{8}$ " (3mm) thick: assorted pieces up to 4" x 6" (102mm x 152mm)
- Dowel scraps: moose eyes, $\frac{3}{16}$ " (5mm) dia.; bear eyes, $\frac{5}{16}$ " (8mm) dia.
- Markers, wide and fine points: black (to color eyes and edges of backer)
- Sandpaper
- Wood glue
- Packaging tape
- Spray adhesive

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.

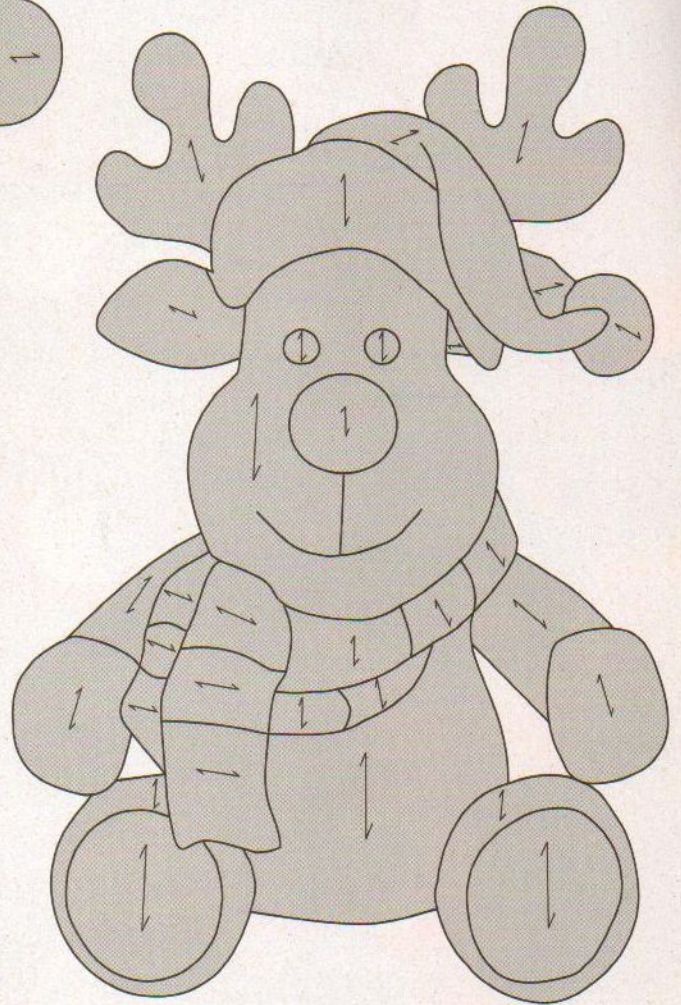
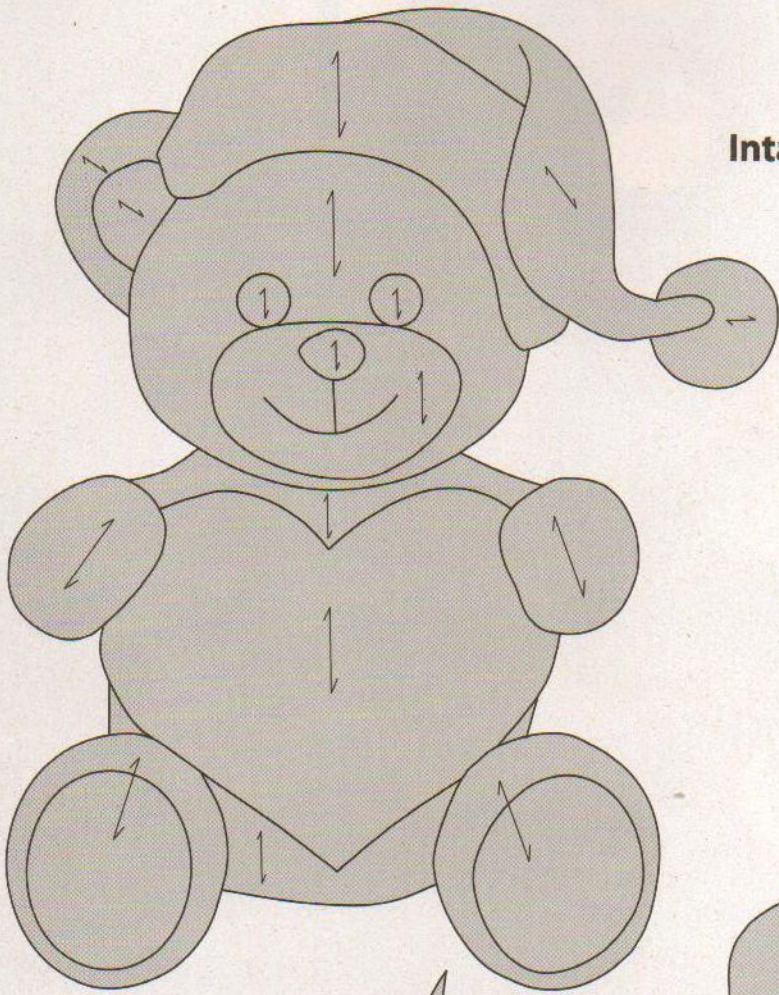
- Waxed paper
- Finish
- Hanger, screw eyes with ribbon, or rare earth magnets

Tools:

- Scroll saw blades: #2 reverse-tooth, #5 or #7 reverse-tooth
- Sanders: flex drum, mop
- Drill with bits: assorted for screw eye pilot holes, rare earth magnets, or eyeholes



Intarsia ornament patterns



© 2015 Scroll Saw Woodworking & Crafts



Bruce Worthington, of Brownstown, Mich., designs a variety of intarsia patterns. For more of his work, visit www.intarsia.net.



Janette Square lives in Eugene, Ore. For more of her work, visit her website at www.square-designs.com.

Making a Simple Coin Bank

Save for a snowy day with this classic wooden bank

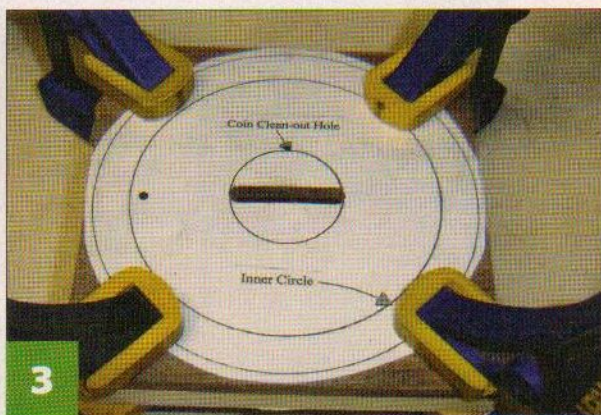
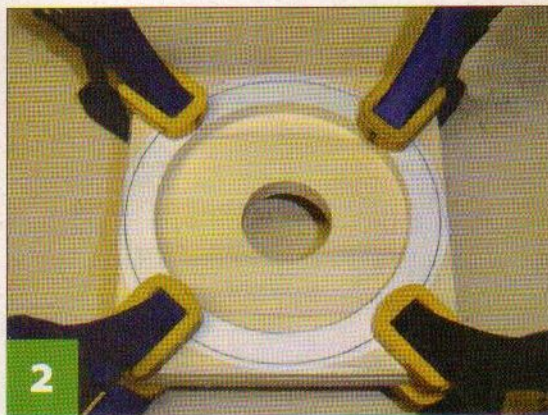
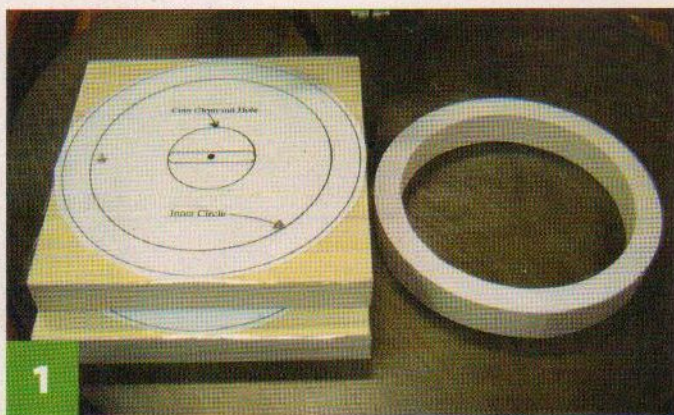
By Gary MacKay



Slide your spare change through the snowflake slot and save it for the upcoming holiday season. Once you master the bank-making process, you can use almost any ornament design to decorate the basic bank.

Getting Started

Cut the wood to the rough sizes in the Materials list. Attach the layer pattern to the six poplar blanks and one walnut blank; attach the snowflake pattern to the aspen. Cover the patterns with clear packaging tape. Drill blade-entry holes as indicated.



1 Cut the rings. Use a #9 blade to cut the inner circles and perimeters of the three $\frac{3}{4}$ " (19mm)-thick rings. Remove the patterns. Use a #5 blade to cut the inner circles only of one $\frac{1}{2}$ " (13mm)-thick and the $\frac{1}{4}$ " (6mm)-thick poplar ring. Leave the patterns attached.

2 Make the bottom of the bank. Cut or drill the coin hole in the remaining $\frac{1}{2}$ " (6mm)-thick blank, forming the bank bottom. Remove the pattern. Center the $\frac{1}{4}$ " (6mm)-thick ring on the bottom, align the grain, and glue and clamp the pieces. Allow the glue to dry, and then cut the perimeter of the bottom with a #9 blade. Remove the pattern.

3 Make the top. Cut the coin slot in the walnut blank, forming the bank top. Remove the pattern. Flip the top over. Center the second $\frac{1}{2}$ " (6mm)-thick ring on the back side of the walnut top, align the grain, and glue and clamp the pieces. When dry, cut the perimeter of the top with a #9 blade. Remove the pattern. *Note: The photo shows the pattern attached to the top, but the piece is easier to cut from the other side.*

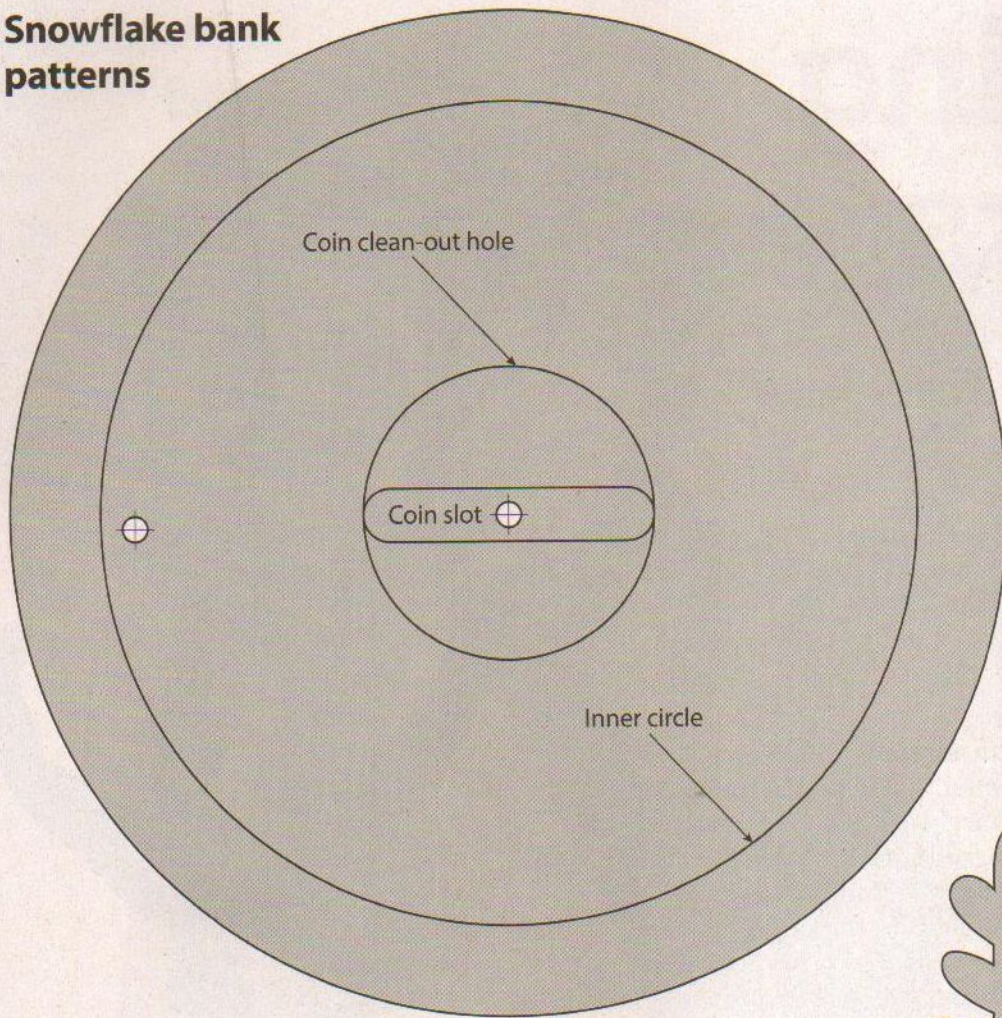
4 Assemble the bank.

Glue and clamp a $\frac{3}{4}$ " (19mm)-thick ring to the bank bottom, and allow it to dry for 20 minutes. Repeat the process to glue the remaining rings and the bank top to the stack. Allow the glue to dry thoroughly, and then use a belt sander to smooth the outside profile. Hand-sand the top and bottom, and round the corners.

5 Add the snowflake. Drill $\frac{1}{16}$ " (2mm)-diameter blade-entry holes in the snowflake and cut it with a #5 blade. Remove the pattern, sand as necessary, and glue it to the bank top, aligning the slot in the snowflake with the slot in the bank top.

6 Apply a clear finish to the bank. Then, insert a metal plug into the coin hole and start saving!

Snowflake bank patterns



Gary MacKay is author of the book *Box-Making Projects for the Scroll Saw*, available from Fox Chapel Publishing. For questions concerning

this project, send an SASE to: Gary MacKay, 2779 Canvasback Tr., Myrtle Beach S.C. 29588.

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Materials & Tools

Materials:

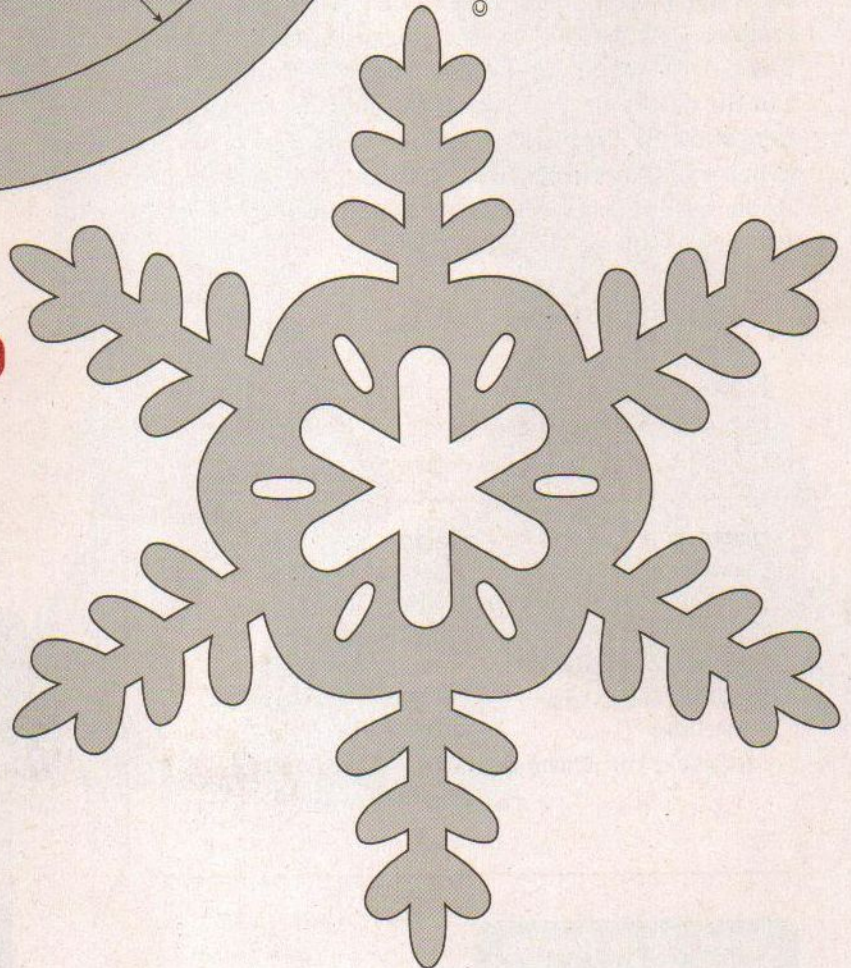
- Poplar, $\frac{3}{4}$ " (19mm) thick: 3 each $5\frac{1}{2}$ " x $5\frac{1}{2}$ " (140mm x 140mm)
- Poplar, $\frac{1}{2}$ " (13mm) thick: 2 each $5\frac{1}{2}$ " x $5\frac{1}{2}$ " (140mm x 140mm)
- Poplar, $\frac{1}{4}$ " (6mm) thick: $5\frac{1}{2}$ " x $5\frac{1}{2}$ " (140mm x 140mm)
- Walnut, $\frac{1}{4}$ " (6mm) thick: $5\frac{1}{2}$ " x $5\frac{1}{2}$ " (140mm x 140mm)
- Aspen, $\frac{1}{4}$ " (6mm) thick: snowflake, $5\frac{1}{2}$ " x $5\frac{1}{2}$ " (140mm x 140mm)
- Metal plug, $1\frac{1}{2}$ " (38mm) dia. (available at home improvement stores)
- Spray adhesive

- Clear packaging tape
- Wood glue
- Clear finish
- Sandpaper

Tools:

- Scroll saw blades: #5 reverse-tooth, #9 reverse-tooth
- Drill with bits: $\frac{1}{16}$ " (2mm), $\frac{1}{8}$ " (3mm) twist; $1\frac{1}{2}$ " (38mm) dia. Forstner (optional)
- Belt sander
- Clamps

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.



Dancing Clocks

Whimsical clocks tell time with attitude

By Jay Fowler

Banish boring clocks! Trade in traditional designs and make mini clocks posed in dance moves. With a bit of practice, you can make a lot of these clocks in a short time, making them perfect for holiday bazaars.

Cutting Clocks Production Style

Instead of attaching patterns with adhesive, I make templates from $\frac{1}{4}$ " (6mm)-thick lauan plywood. Sand the wood, and then use a sharp #2 pencil or a small mechanical pencil to trace the templates. Drill a hole for the clock insert with a Forstner bit. Then, drill blade-entry holes with a $\frac{1}{16}$ " (2mm)-diameter bit. Cut the clocks with a #2 or #4 spiral blade, starting with the frets and ending with the perimeter. Sand away any remaining pencil marks or fuzzies with 220- and 400-grit sandpaper. Apply several coats of gloss spray polyurethane, sanding with 400-grit sandpaper between coats.

Materials & Tools

Materials:

- Hardwood, $\frac{1}{2}$ " (13mm) to $\frac{3}{4}$ " (19mm) thick: assorted sizes up to 4" x 9" (102mm x 229mm)
- Sandpaper: 220, 400 grits
- Finish, such as gloss spray polyurethane
- Clock inserts: $1\frac{1}{16}$ " (37mm) dia.

Tools:

- Scroll saw blades: #2 and #4 spiral, such as Olsen
- Drill with bits:
 - $\frac{1}{16}$ " (2mm)-dia. twist,
 - $1\frac{3}{8}$ " (35mm)-dia. Forstner

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.

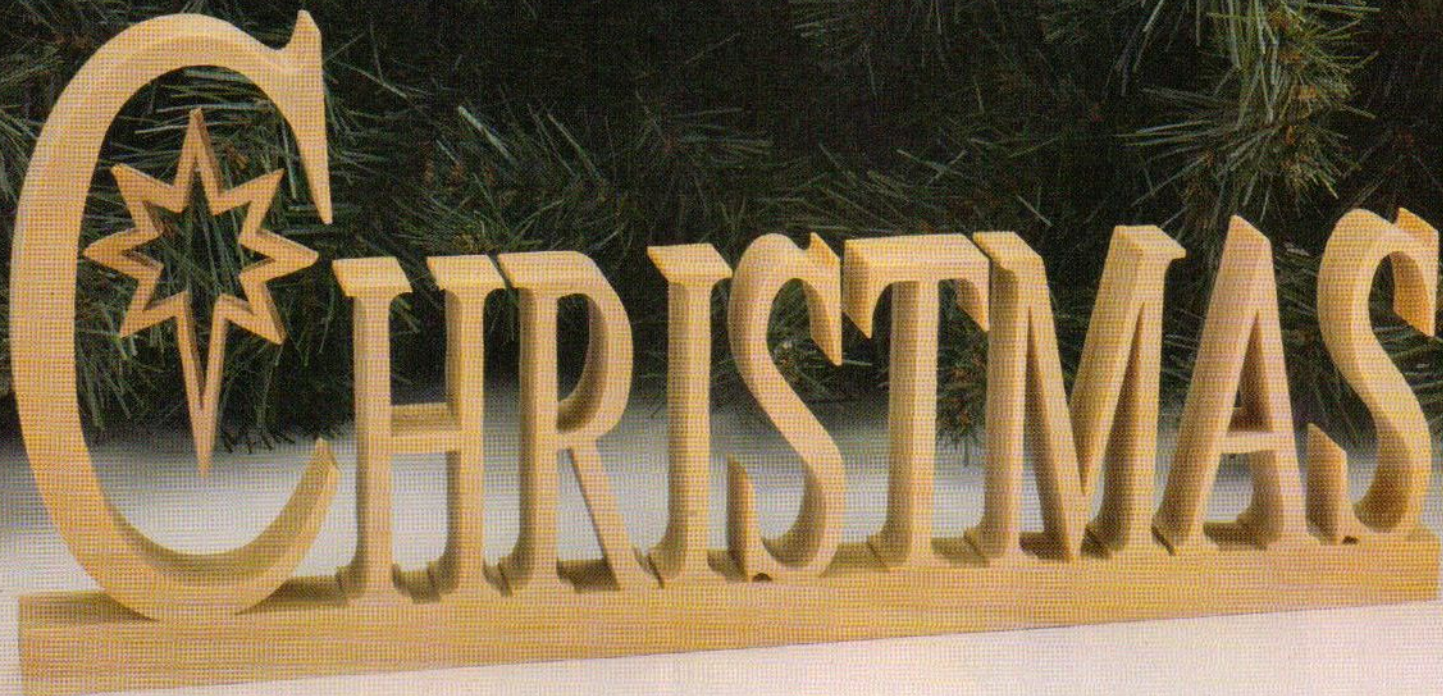


Jay Fowler has been woodworking for the last 17 years. He was trained by his father, Tom, and then found a scroll saw and started experimenting. Inspired by his wife, Becky, and two kids, Tristin and Samantha, he started making puzzles, small toys, and picture frames. Jay and his family live in North Branford, Conn.

Patterns for the **DANCING CLOCKS** are in the pattern pullout section.



Christmas Star Word Art



Jazz up your word art with a symbol of the season

By Bruce Shea

While I love the concept of word art, sometimes the projects feel a little flat. I add movement and dimension with hanging accents, such as the star in this Christmas design. After you master the hanging process, it's easy to embellish other word art designs.

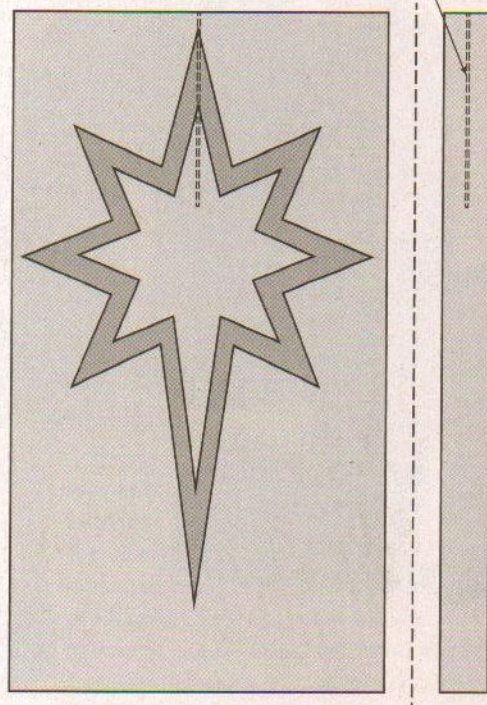
Making the Word Art

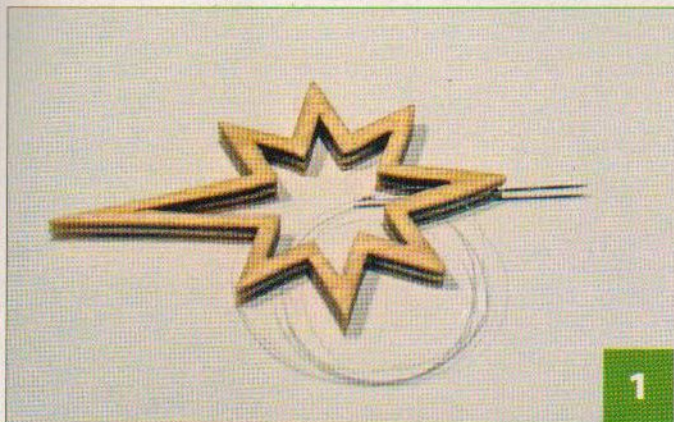
Cover the wood with blue painter's tape and attach the pattern to the tape. Drill the hole through the top of the star while the blank is still rectangular. Drill the required blade-entry holes and cut the design. Start with the inner frets and work your way out. Use caution when cutting the perimeter; it's easy to snap some of the delicate letters along the grain line. Drill the hole through the top of the letter "C".

Sand the piece with 220-grit sandpaper and apply a coat of neutral Danish oil finish. Allow the finish to dry thoroughly. Stain the star if desired.

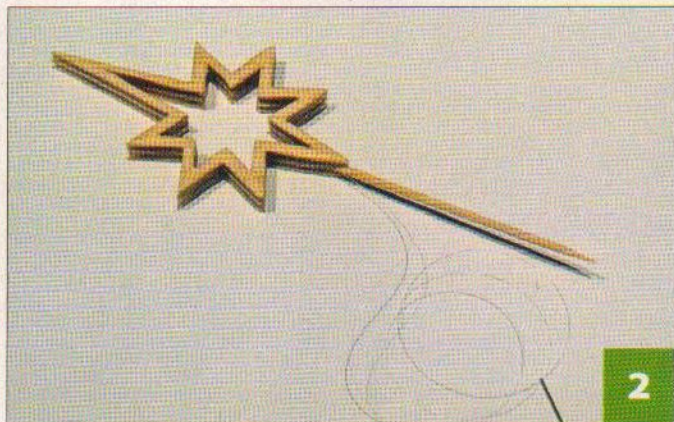
Word art star pattern

$\frac{1}{32}$ "-diameter,
1"-deep
hole in blank,
centered

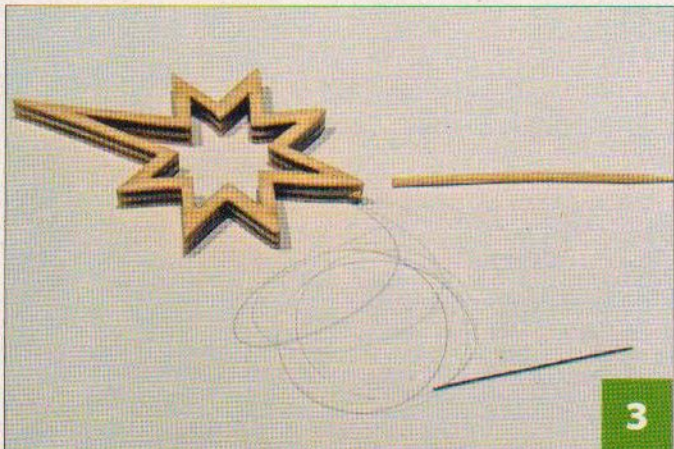




1



2



3



4

- 1 Thread a needle.** Insert it into the hole at the top of the star, starting inside the star.
- 2 Lock the thread in place.** Insert a toothpick coated with thin cyanoacrylate (CA) glue into the hole and allow the glue to dry.

- 3 Cut off the excess toothpick.** Use diagonal cutters or nail clippers. Sand the toothpick flush with the surface of the star.
- 4 Attach the star to the letter "C."** Repeat Steps 1 through 3, inserting the toothpick from the top of the "C." After cutting off the excess toothpick, sand it flush with the outline of the letter.

Materials & Tools

Materials:

- Poplar, $\frac{3}{4}$ " (19mm) thick: word $5\frac{1}{2}$ " x 12" (140mm x 305mm)
- Baltic birch plywood, $\frac{1}{4}$ " (6mm) thick: star 2" x 2 $\frac{1}{2}$ " (50mm x 64mm)
- Blue painter's tape
- Spray adhesive
- Sandpaper: 220 grit
- Wooden toothpicks
- Cyanoacrylate (CA) glue: thin consistency
- Danish oil: neutral
- Needle and neutral-color thread

Tools:

- Blades, premium, such as Olson Mach: #3, #5
- Cutter: fingernail clipper or diagonal cutters

Additional pattern for the **CHRISTMAS STAR WORD ART** is in the pullout section.

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.



Bruce Shea resides in Dayton, Ohio, with his wife, Nancy. Bruce retired from the automotive industry and is a member of the Heart of Ohio Scrollers scroll saw club. Woodworking has been a hobby of his as long as Bruce can remember.

Layered Ornaments

Mix and match hardwood scraps to make beautiful ornaments

By Dan Wilckens

Dig through your scrap-wood bin and have fun combining different hardwoods and overlay patterns to create unique ornaments. Use as many as five layers as shown, or mix and match one, two, or three pieces for different looks.

Making the Ornaments

Make multiple copies of the patterns. I plane or sand the center layer to $\frac{1}{4}$ " (6mm) thick and the overlays to $\frac{1}{8}$ " (3mm) thick. Stack the blanks if desired (see page 70 for stacking instructions). Cover the wood with painter's tape, attach the patterns, drill the blade-entry holes, and cut the pieces. Remove the patterns, separate any stacks, and sand the ornaments.

To make five-layer ornaments, glue and clamp the bottom overlays to the center, let the glue set, and then glue and clamp the top overlays in place. Let the glue dry thoroughly, apply a finish, and drill a hanging hole. Woodburn the year, if desired.



Dan Wilckens started scrolling 25 years ago in the shop he built with his father. They started out doing it as a hobby, and then began designing their own patterns and making them available for others to enjoy. He still

makes sawdust in the same shop; that is where the magic is. His background is in tooling design and tool and die work. See more of Dan's work at www.wilckenswoodworking.net.

Materials & Tools

Materials:

- Hardwood scraps: assorted thin pieces
- Sandpaper
- Painter's tape
- Spray adhesive
- Wood glue
- Finish

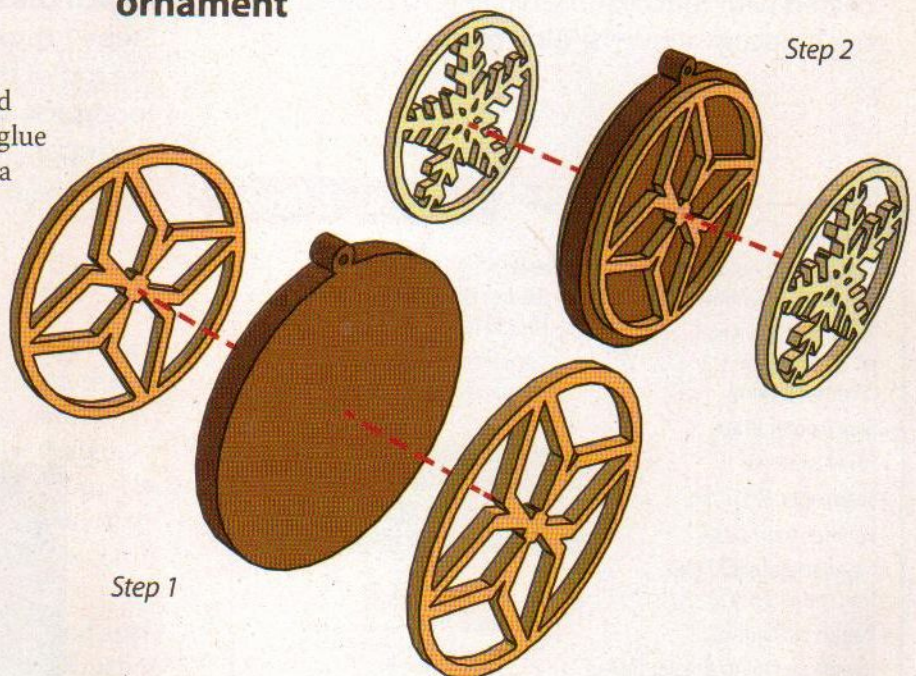
Tools:

- Scroll saw blades: #2 reverse tooth
- Drill press and assorted small bits
- Planer and/or drum sander
- Belt or handheld sander
- Woodburner and writing tip (optional)

Patterns for the **LAYERED ORNAMENTS** are in the pattern pullout section.

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.

Assembling a 5-layer ornament





**BONUS
PATTERNS**

from Dan Wilckens on
the Pattern Pullout!

Mediterranean Pasta Measure

Decorative tool makes a quick gift and craft show star

By Dave Van Ess

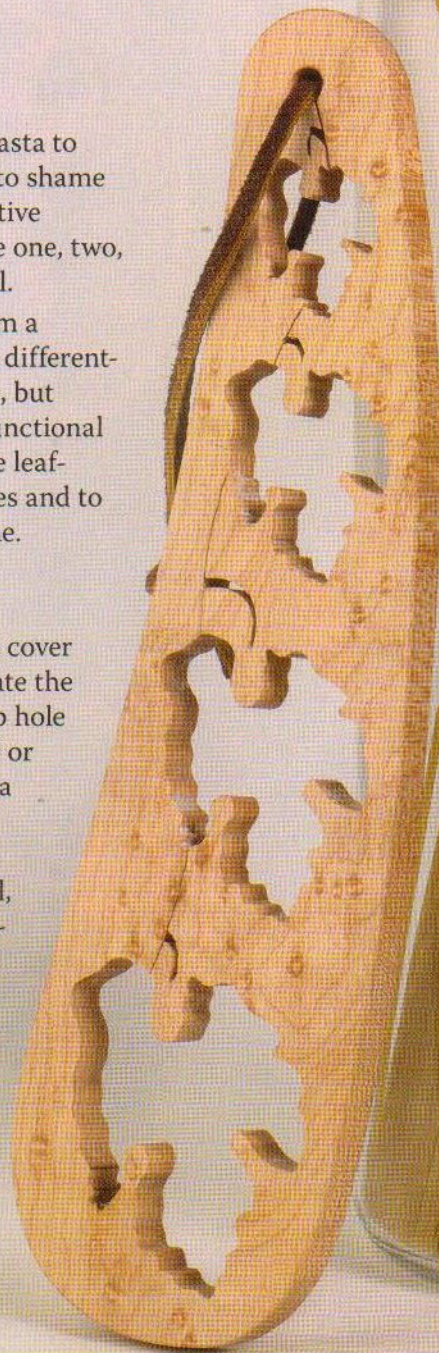
How do you decide how much pasta to cook without making enough to shame an Italian grandmother? This decorative kitchen utensil allows you to measure one, two, three, or four servings of pasta to boil.

My first pasta measure, a gift from a friend, was basically a stick with four different-sized holes. I used the same idea here, but designed my implement to be both functional and decorative. I decided to use grape leaf-shaped holes for different serving sizes and to position them as if they were on a vine.

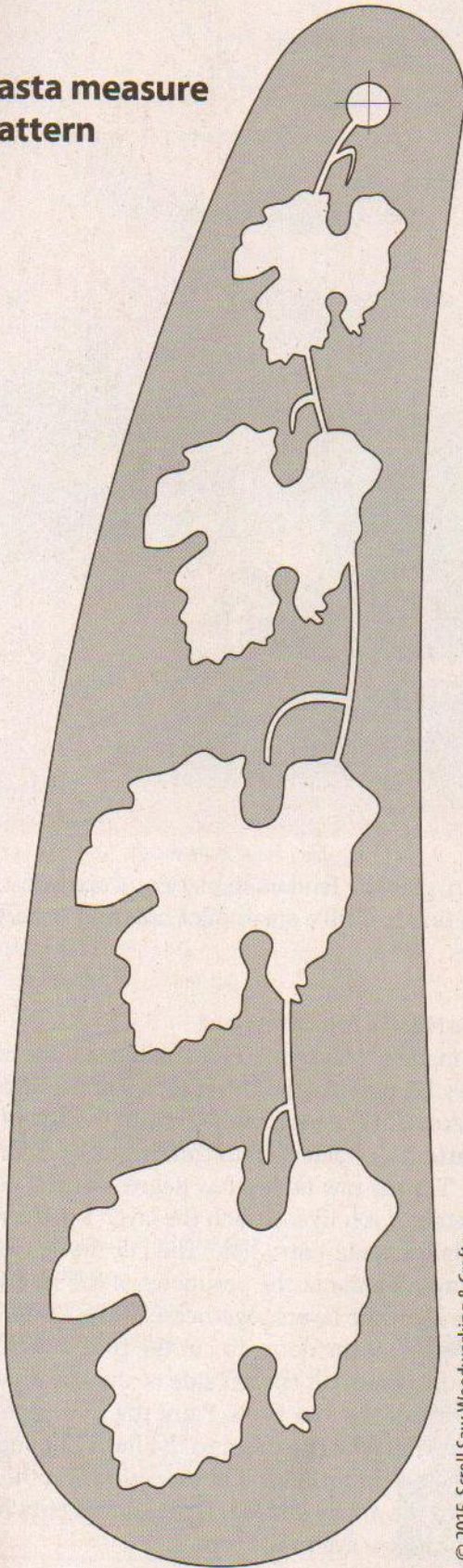
Making the Pasta Measure

Transfer the pattern to the blank and cover it with clear packaging tape to lubricate the blade. Cut the perimeter. Drill the top hole and blade-entry holes. Use a large (#9 or larger) blade to cut the vine line. Use a #2 skip-tooth blade to cut the leaf details. Sand with 180- to 220-grit sandpaper and finish with mineral oil, salad bowl finish, or some other food-safe finish.

Tie a 14" (356mm)-long leather thong, such as a bootlace, to the top hole. You now have a pasta measure suitable for hanging on a kitchen wall.



Pasta measure pattern



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One-Pot Pasta

After the original One-Pot Pasta recipe was published in *Martha Stewart Living* in 2013, versions like this have appeared all over the internet. Of course you could use short pasta, such as fusilli or orecchiette, but you can't measure those with your new tool.

Ingredients

12 oz linguine or spaghetti	2 Tbs extra-virgin olive oil
12 oz cherry or grape tomatoes, halved; OR canned diced tomatoes	Salt and pepper
1 onion, thinly sliced (about 2 cups)	4 ½ C water
4 cloves garlic, thinly sliced	6 oz baby spinach, optional
½ tsp red-pepper flakes	Grated Parmesan, fresh mozzarella, or ricotta cheese, for serving
2 sprigs basil, plus more for garnish	

Instructions

1. Layer pasta, tomatoes, onion, garlic, red-pepper flakes, basil, oil, 2 tsp salt, ¼ tsp pepper, and water in a large straight-sided skillet. Bring to a boil over high heat. Boil mixture, stirring frequently, until pasta is al dente and water has nearly evaporated, about 9 minutes. Stir in spinach, if desired, and remove from heat.
2. Season to taste with salt and pepper. Divide among four bowls, top each serving with cheese, and garnish with basil.

Materials & Tools

Materials:

- Maple or other figured wood, ¾" to ½" (10mm to 13mm) thick: 2¾" x 9" (70mm x 229mm)
- Sandpaper: 180, 220 grits
- Food safe finish, such as mineral oil or salad bowl finish
- Leather thong (bootlace): 14" (356mm) long
- Spray adhesive
- Clear packaging tape

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.

Tools:

- Scroll saw blades: #2 skip-tooth, #9 skip tooth
- Drill with bits: ¼" (2mm), ¼" (6mm) dia.



Dave Van Ess of Chandler, Ariz., is a retired engineer who has been woodworking for nearly 40 years. He has introduced more than 200 Cub Scout leaders to the joys of scroll sawing.

Nostalgic Mini Toy Ornaments



**Charming decorations
double as small toys**

By Howard Clements

I have been designing an annual ornament for my grandchildren for more than 20 years. They are a great way to use up scrap wood and dowels. You can create them assembly-line style and fill a tree—or make a lot of gifts—with an afternoon’s work. Better yet, get a youngster or two involved in the cutting, painting, and assembling.

While it’s possible to cut the small wheels for the truck, I suggest purchasing them. You can find them online for around \$0.08 when you buy 100 at a time.

Making the Bread Truck Ornament

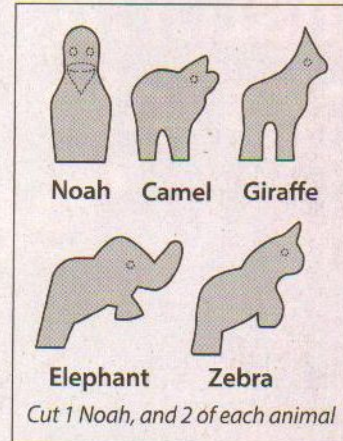
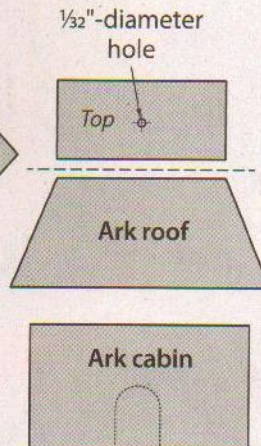
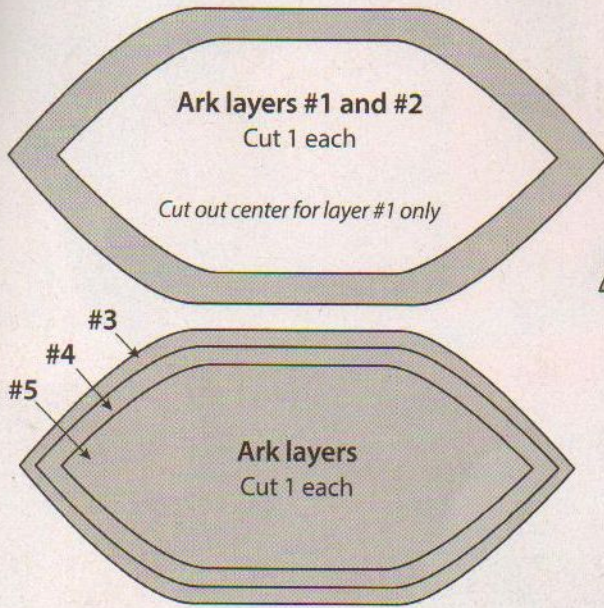
Attach the pattern to the wood, and then drill the holes in the sides and bottom. Cut the body and the fenders. Insert the posts up through the bottom and glue them in place. Cut the excess dowel flush with the bottom of the truck. Glue an axle dowel into one wheel, insert the axle through the axle hole, and glue it into the other wheel. Repeat the process for the other wheels and axle. Make sure there is $\frac{1}{16}$ " (2mm) clearance between the wheels and body so the wheels

move. Then, glue the fenders in place and apply a clear spray finish. Drill a small pilot hole and install a screw eye.

Making the Noah’s Ark Ornament

The ark is made of stacked layers. You’ll need one copy of the layers 1-2 pattern and three copies of the layers 3-4-5 pattern. Cut the perimeters only of the layers 3, 4, and 5 patterns, attach each to thin wood, and cut the pieces. Tilt the saw table a few degrees as you cut the perimeters if you like. Attach the layer 1 pattern to its blank, drill a blade-entry hole, and cut the center. Glue it to layer 2 and cut the perimeter of the stacked piece. Glue all of the layers together. Cut the cabin, and then draw or paint the door. To cut the roof, attach the pattern to the wood, tilt the left side of the saw down 25°, and then cut the four sides. Paint the roof, glue it to the cabin, and glue the cabin to the hull. Cut and paint Noah and the animals. Let them dry, and then glue them to the ark as desired. Drill a small pilot hole and attach a screw eye to the top.

Noah's ark ornament patterns



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Paint Chart

Noah's robe: purple
Noah's face: flesh
Noah's beard: white
All eyes: black

Elephants: light gray
Camels: light brown
Zebras: white with black stripes

Materials & Tools

Materials:

Bread Truck:

- Scrap wood, $\frac{3}{4}$ " (19mm) thick: truck body
- Scrap wood, $\frac{1}{8}$ " (3mm) thick: fenders
- Dowel, $\frac{1}{8}$ " (3mm) dia.: posts & axles, 4 each $1\frac{1}{4}$ " (32mm) long
- Wheels: 4 each $\frac{1}{2}$ " (13mm) dia.

Ark:

- Scrap wood, $\frac{3}{4}$ " (19mm) thick: roof
- Scrap wood, $\frac{5}{8}$ " (16mm) thick: cabin
- Scrap wood, $\frac{1}{8}$ " (3mm) thick: ark & figures

Both:

- Screw eye: 2 each $\frac{1}{8}$ " (3mm) dia.
- Acrylic paint
- Marker, permanent: black
- Wood finish: clear spray

Tools:

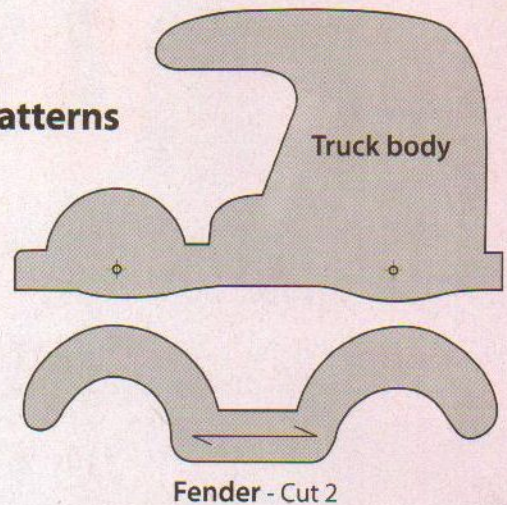
- Scroll saw blades: #2/0, #5
- Drill with bits: $\frac{5}{64}$ " (3.5mm); #22 wire size

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.



Howard Clements of Knox, Pa., has been addicted to woodworking for more than 65 years. In addition to making toys and other small items, Howard makes models for use in lawsuits and in the courtroom.


Bread truck ornament patterns



Transform Blocks into Bangles

Scroll delicate-looking
but durable wooden
bracelets

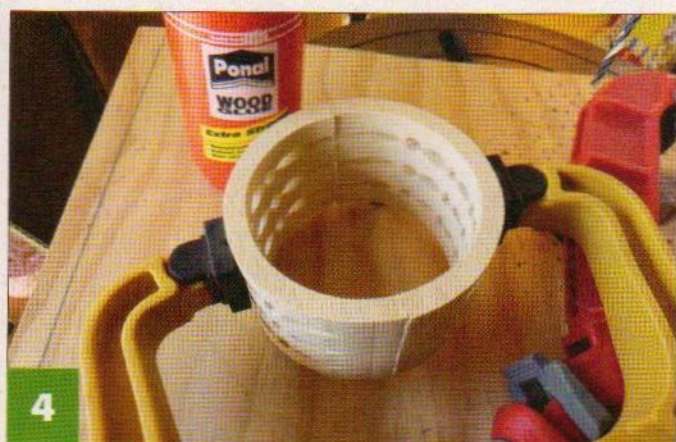
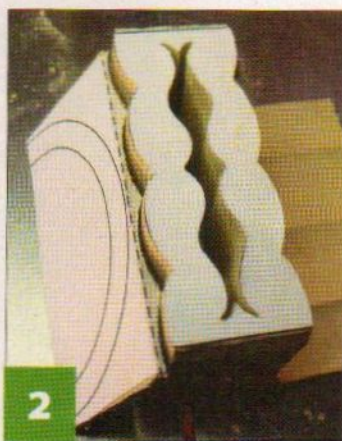
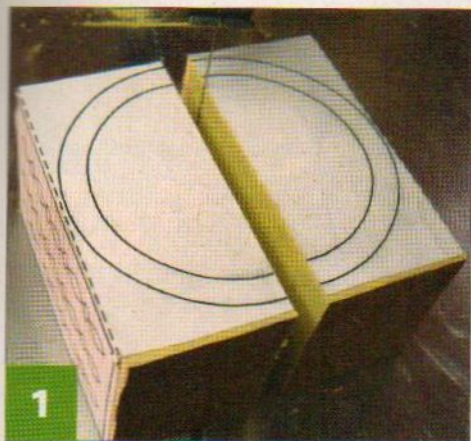
By Sue Mey



Advertise your scrolling skills on your family's and friends' wrists with these easy but attractive bracelets. Cut them from solid blanks or laminate together beautiful and valuable scraps to make a unique piece. Use a softer species, such as basswood, butternut, or aspen, if you struggle to cut thick, dense hardwoods.

Getting Started

Cut the blanks to size, gluing as necessary to get the proper thickness (measure the design side of the pattern to determine the thickness). Cover the wood with masking tape. Make two copies of your pattern, sizing as needed. Fold the patterns on the dotted lines. Apply spray adhesive, align the folds with the corners of the wood, and press firmly.



1 Cut the blank along the centerline. Make sure the blade is square with the table. Use a long $\frac{3}{32}$ " (2.5mm)- or $\frac{1}{8}$ " (3mm)-diameter bit to drill blade-entry holes for the side frets.

2 Cut the side view. If the edges of the side view are wavy, make one continuous cut on the perimeter lines to preserve the ring pattern on the adjoining side of the blank. Replace the cut pieces and secure them by wrapping clear packaging tape around the three pieces. Repeat the process for the other half.

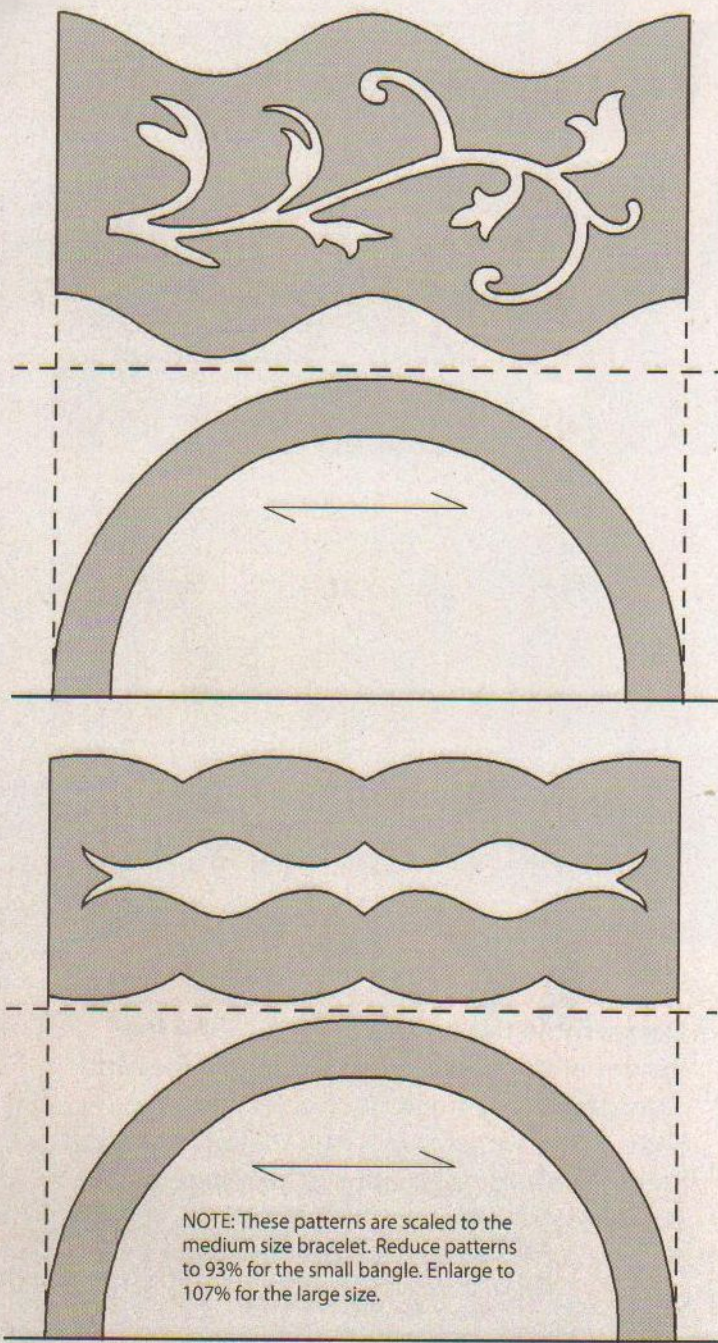
3 Cut the ring shape. Start with the outside line, but stop about $\frac{1}{4}$ " (6mm) shy of the end of the line. Reverse the blade out of the saw kerf. Cut the inside line. Hold all of the pieces securely while you finish cutting the outside line. Repeat the process for the other half.

4 Reassemble the bracelets. Hand-sand the insides of the two halves. Use needle files and sandpaper to remove any fuzzies from the frets. Apply wood glue to the mating surfaces, carefully align the two halves, and clamp the pieces together. Make sure you are clamping against a solid part of the design. Allow the glue to dry.

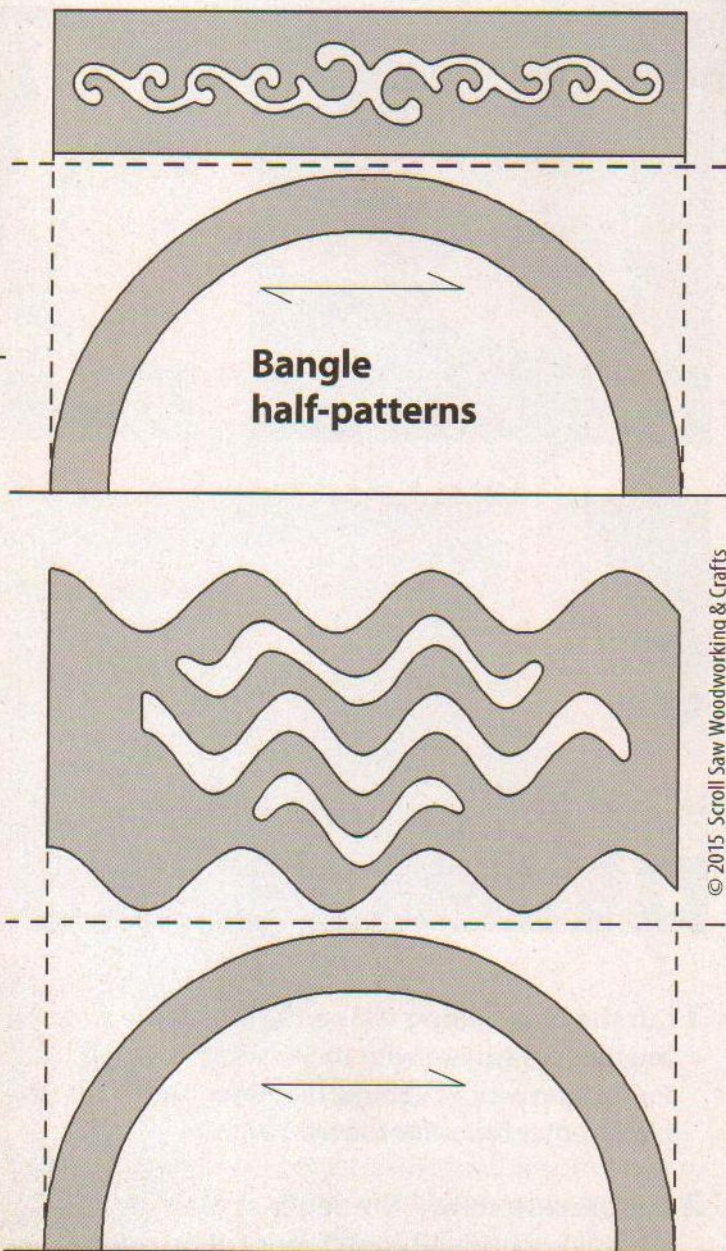
5 Finish the bracelets. Use a utility knife blade to scrape away any glue residue. Refine the joint with a sander or scroll saw. Then, hand-sand the entire bracelet. Stain if desired, and allow it to dry. Apply several coats of spray varnish.



*Sue Mey lives in Pretoria, South Africa. To see more of her work, including a wide variety of patterns and pattern-making tutorials available for purchase, visit www.scrollsawartist.com. She can be contacted at suem@storage.co.za. Her pattern book, *Lighted Scroll Saw Projects*, is available from www.schifferbooks.com and other outlets.*



NOTE: These patterns are scaled to the medium size bracelet. Reduce patterns to 93% for the small bangle. Enlarge to 107% for the large size.



**Bangle
half-patterns**

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Materials:

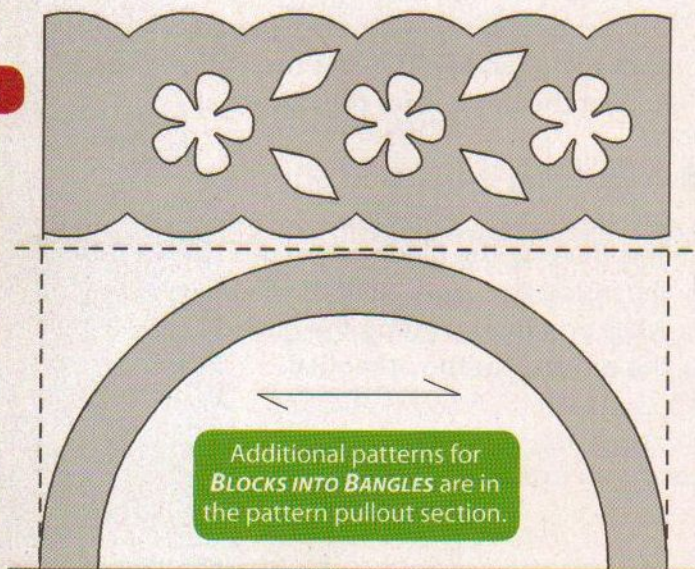
- Wood, assorted thicknesses up to 2" (51mm): small bracelets, 3¼" x 3¼" (83mm x 83mm); medium bracelets, 3½" x 3½" (89mm x 80mm); large bracelets; 3¾" x 3¾" (95mm x 95mm)
- Spray adhesive
- Masking tape
- Wood glue
- Sandpaper
- Stain (optional)
- Finish, such as spray varnish

Materials & Tools

Tools:

- Scroll saw blades: #9 skip tooth
- Drill with assorted small bits
- Clamps
- Needle files
- Utility knife blade
- Sander

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.



Additional patterns for
BLOCKS INTO BANGLES are in
the pattern pullout section.

A Sign of Faith

Cut this delicate filigree design in just 2 hours

By Bobby Riggs



I am passionate about cutting crosses, and many of the potential buyers who visit my booth at craft shows like my designs, as well. Several other scrollers live in the area, so I am always trying to make new designs or create a new twist on an old design to get an edge on the competition. My cross designs tend to be simple, which means they are quick and easy to cut, so I can charge prices that are appealing to buyers and share the patterns with even beginning scrollers.

This particular design looks a little tricky, but most scrollers can cut it in less than two hours. I used a colorful piece of poplar for it, but cherry, oak, and walnut are also good choices. Avoid pine or other soft varieties of wood because there are some thin bridges in this cross.

Making the Cross

Drill blade-entry holes and cut the frets. Then, cut the perimeter of the piece. Sand it, and apply Danish oil. Allow the oil to dry, and then apply a clear spray finish. After the clear finish dries, buff it with a piece of brown paper bag to get a smooth finish.

Materials & Tools

Materials:

- Poplar, $\frac{3}{4}$ " (19mm) thick:
7 $\frac{1}{2}$ " x 10" (191mm x 254mm)
- Sandpaper
- Danish oil
- Finish: clear spray
- Brown paper bag

Tools:

- Scroll saw blades:
#5 reverse-tooth
- Drill with assorted small bits

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.

The pattern for **A SIGN OF FAITH** is in the pattern pullout section.



Bobby Riggs has been scrolling for more than 10 years. Born in West Virginia, Bobby now lives in Texas, where he works for a large airline. Bobby and his wife have two sons and three grandchildren. Crosses are his favorite subject to cut.

Bending Wood for an Inlay Pencil Box

Alternative technique gives you a tight-fitting inlay every time

By Charles Mak

Sometimes you need a pencil or a pen, even in the digital age. This stylish monogrammed box keeps your writing instruments all in one place. It's also a great way to practice bending wood to make a tight-fitting custom inlay with a scroll saw. You can easily adapt the technique for other boxes, cutting boards, and many other projects.

Getting Started

Gather your lumber and cut the pieces to the dimensions in the Materials list. Be sure to choose straight-grained pieces that are free of knots. I use walnut for the accent strip and oak for the rest of the project. I use a word-processing program to create a custom monogram in an appropriate font and size. Transfer the pattern and monogram to the wood (I trace it) and drill the blade-entry holes for the monogram.

Materials & Tools

Materials:

- Oak, $\frac{3}{8}$ " (10mm) thick: front and back, 2 each, $3\frac{1}{2}$ " x $4\frac{1}{2}$ " (89mm x 114mm); sides, 2 each, $1\frac{1}{2}$ " x $4\frac{1}{4}$ " (38mm x 104mm); bottom, $1\frac{1}{2}$ " x $2\frac{3}{4}$ " (38mm x 70mm)
- Oak, $\frac{1}{4}$ " (6mm) thick (optional): raised block, $1\frac{3}{4}$ " x $2\frac{3}{4}$ " (44mm x 70mm)
- Walnut, $\frac{1}{8}$ " (3mm) thick: accent strip, $\frac{3}{8}$ " x $3\frac{7}{8}$ " (10mm x 99mm)

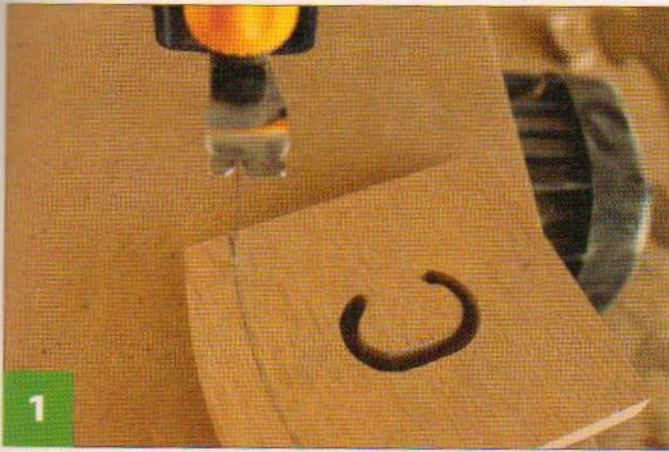
- Sandpaper
- Finish: oil, wax

Tools:

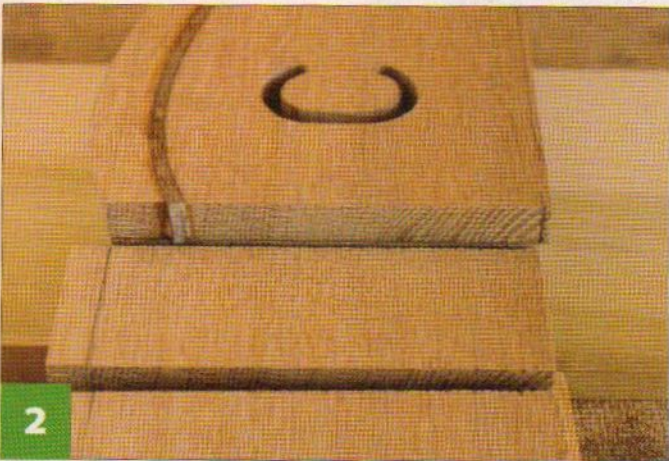
- Scroll saw blades: #5
- Sander: stationary belt or oscillating spindle
- Drill with bit: $\frac{1}{16}$ " (2mm) dia.
- Clamps

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.





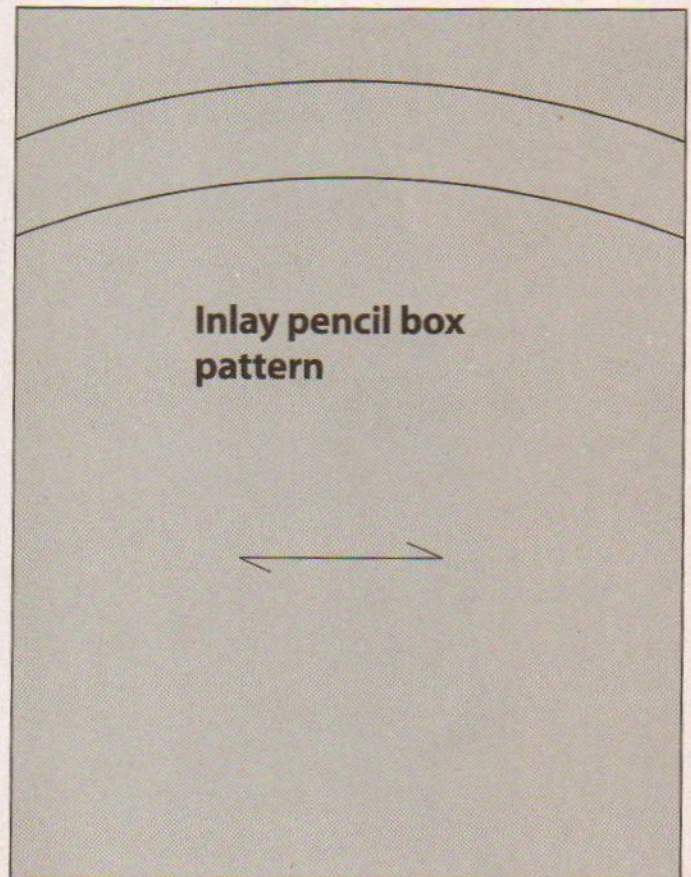
1 Cut the monogram. Then, use double-sided tape to stack the front and back (see page 70). Cut the top curved line. Keep the waste corners to make clamping easier later. Separate the stack, and then cut the lower curved line on just the front piece.



2 Make the inlay. Soak the inlay accent strip in water for 30 minutes to soften the wood fibers; wipe it dry. Position the strip between the two parts of the front. Apply glue, clamp all of the pieces (use the waste corners as shims), and let the glue dry. The thin inlay strip will bend to match the curve. Cut the edges of the accent strip flush.



3 Finish the box. Trim the front, back, and sides to the same length. Assemble, glue, and clamp the box. Reinforce the joints with brads or glue blocks on the inside. Sand the top edges to a gentle curve. Glue and clamp the raised block to the bottom, if desired. Apply a coat of each of oil finish and finishing wax.



Charles Mak is a semi-retired businessperson and amateur woodworker in Alberta, Canada. He enjoys writing, authoring shop tips, teaching, and woodworking with both power and hand tools. Contact him at thecanadianwoodworker@gmail.com.

DIY “Antique” Iron

Decorative wooden sadiron looks authentic without the original weight or cost

By Al Baggetta

When steam irons replaced the heavy irons heated on stoves, the antique “sadirons” became decorations or doorstops. While they can still be found on eBay or at estate sales, the prices were too high for me, so I created this replica out of wood. To give it the look of a heavy piece of iron, I use a multicolor textured spray paint.

Getting Started

I used pine to make my sadiron, but you can cut it from any available wood. Sand the wood before cutting to reduce the sanding time on the assembled piece. Transfer the patterns to the wood.





1 Make the iron. Drill a blade-entry hole and cut the star in the top layer. Drill the holes for the dowel pegs. Cut the perimeters of the pieces.

Use a ¼" (6mm)-radius roundover bit in a router table to shape the edges of the top and base. You can make the accents as pronounced as you like by lowering or raising the bit in the table. Sand the routed edges smooth; I use a mop sander, but you could hand-sand the edges.

Spread an even layer of wood glue onto the back of the top. Center the top on the base and clamp it in place until the glue dries.



2 Make the handle. Align the long, straight side of the patterns with the edge of the blank. Cut the perimeter of the pattern.

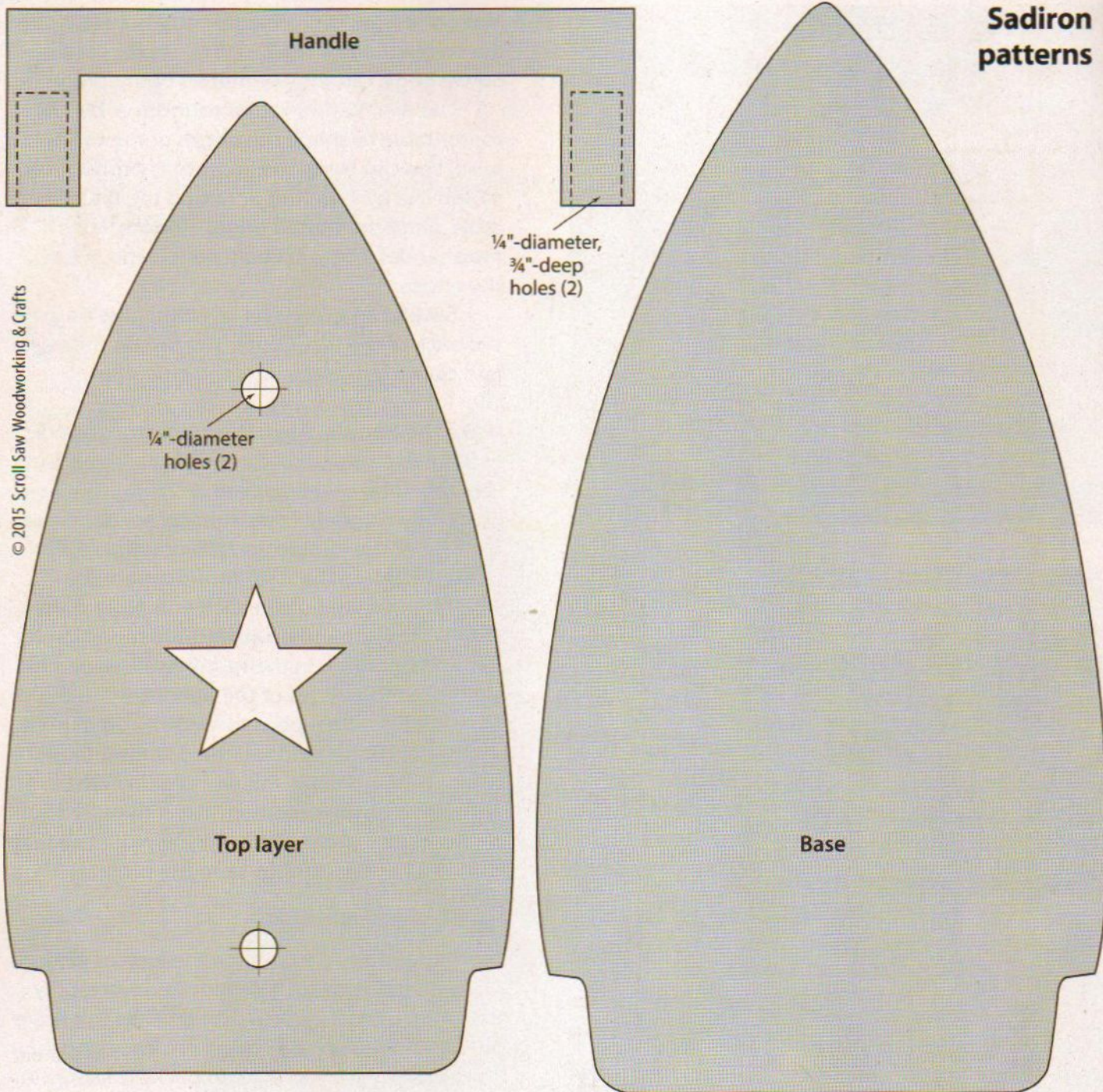
Draw diagonal lines from corner to corner on both of the handle ends to determine their centers. Drill a ¼" (6mm)-diameter by ¾" (19mm)-deep hole in each end. Round the corners of the handle with a disc sander. Use the roundover bit in the router table to add accents to the edges of the handle.

Cut the dowel pegs to length, add glue to the handle holes, and tap the dowels into place with a rubber mallet. Put wood glue in the holes in the top of the iron, insert the dowels, and tap the handle with a rubber mallet to seat the dowels firmly. Hand-sand the project if desired.



3 Paint the project. I simulate the look of old iron using Rust-Oleum's Multicolor Textured spray paint. I use the dark brown, but other colors are available. To keep the spray from knocking your project around, hold the can back and spray in short bursts. For an authentic old iron look, let the paint clump in some areas.

For a different look, glue pictures to the bottom of the iron or try painting a miniature mural on the bottom. The iron stands on end, so you can show off your artwork. I've also done sadirons in different colors and used different hardwoods to make unique table ornaments.



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Materials & Tools

Materials:

- Pine, $\frac{3}{4}$ " (19mm) thick: assorted scraps up to 4" x 7 $\frac{1}{2}$ " (102mm x 191mm)
- Dowels, $\frac{1}{4}$ " (6mm) dia.: 2 each 2" (51mm) long
- Wood glue
- Sandpaper
- Spray adhesive

- Finish, such as Rust-Oleum Multicolor Textured spray paint in dark brown

Tools:

- Scroll saw blades: #5 skip tooth
- Drill press with bit: $\frac{1}{4}$ " (6mm) dia.

- Sanding mop
- Router table with bit: $\frac{1}{4}$ " (6mm) radius roundover
- Spring clamps
- Metal ruler, pencil
- Rubber mallet

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.



Al Baggetta is a retired English teacher and former musician who took a liking to scroll sawing. Visit his pattern site at baggetta.com/pebooks/puzzle_patterns.htm.

Quilling Christmas Ornaments



Decorate fretwork ornaments with colorful strips of paper

By Bob Crane

Wow, these are really cool!" and "The colors are amazing!" are just a few of the reactions that I get when people see and hold my quilled Christmas ornaments for the first time. Quilling, also referred to as paper filigree, involves rolling thin strips of paper and then manipulating them into different shapes. The use of quilling dates back to the Renaissance, when monks and nuns used rolled paper to decorate books and religious items.

Before I started creating my ornaments, I had never heard of quilling or attempted to do it. To get started I explored YouTube and found several tutorials. I purchased supplies and began teaching myself how to quill. I strongly recommend you practice with strips of paper cut to $\frac{1}{4}$ " (6mm) wide (I used ordinary

printer paper) before using the more expensive pre-cut quilling paper.

Once you get the hang of the quilling, the ornaments are really fun to make. Your friends and family will be amazed by your unique handmade ornaments.

Cutting the Ornaments

Stack three $\frac{1}{4}$ " (6mm)-thick blanks (I use five-ply poplar plywood). Drill blade-entry holes, cut the frets and perimeters, and sand the ornaments smooth. Paint them white. *Note: The finished ornaments will be slightly less than $\frac{1}{4}$ " (6mm) thick, so the $\frac{1}{4}$ " (6mm)-wide quilling paper will protrude slightly from the back.*



Quilled Shapes

- A Teardrop, bent teardrop:** Roll the paper using a needle tool; remove it from the tool. Hold the paper with tweezers from the center to the outside edge to keep it from uncoiling. Sparingly apply glue to the outside edge of the paper flap. Note the directions the coils and teardrops face when placed in the ornaments.
- B Loose coil:** Roll the paper using a needle tool; remove it from the tool. The length of the scroll will determine how large it is. Glue just the paper flap to the ornament and let the scroll hang free (see Adding Quills to Your Ornament).
- C Connected scroll:** Roll the end of a strip around the needle tool a few times, and then remove it from the tool. Move down the paper 1" (25mm) and coil the paper around the needle tool again. Repeat the process five more times to create seven connected scrolls.
- D Eccentric coil:** For these circles, which are tight on one edge and loose on the other, roll the paper using the needle tool and remove it from the tool. Grip the coil from the center to the side with tweezers and add a drop of medium-consistency cyanoacrylate (CA) glue or white glue to the paper gripped in the tweezers. Hold the shape until the glue dries.
- E Tight coil:** Roll the paper using the needle tool and add a drop of glue to the outside edge of the paper flap before removing it from the tool.

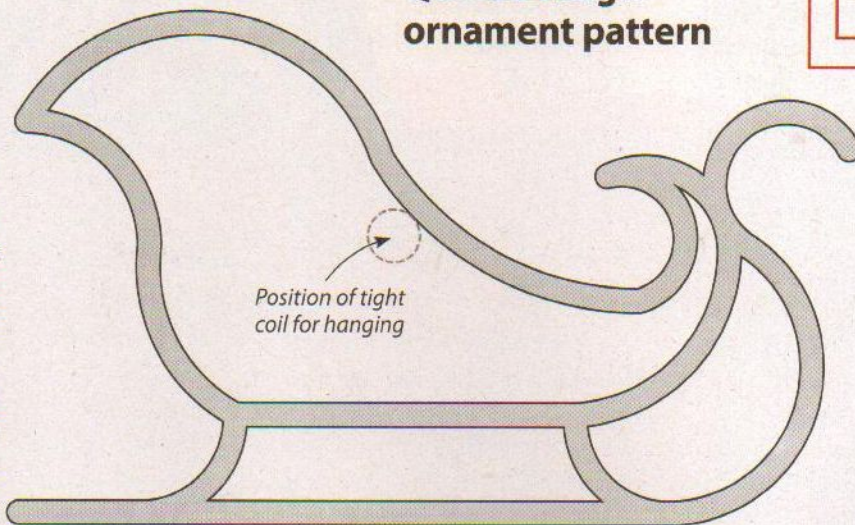
Adding Quills to Your Ornament

Place the ornament face down on the work surface (see Tips). Insert the quilled shapes, bending or shaping them as desired. All of the eccentric coils face the rear of the sled. When you are satisfied with the paper shapes inside the ornaments, apply CA or white glue sparingly where the wood touches the paper or where the coils touch each other. Allow the glue to dry thoroughly. Glue a red plastic rhinestone to the front loose scroll to act as a lantern.

Paper Lengths

Part	Shape	Color	Length
Front of sleigh	Teardrops	Fuchsia	6" (152mm)
Front of sleigh	Teardrops	Periwinkle blue	12" (305mm)
Front of sleigh	Teardrops	Bright yellow	8" (203mm)
Front of sleigh	Teardrops	True red	6" (152mm)
Lantern	Loose coil	Blush	8" (203mm)
Body of sleigh (front)	Teardrops	Blush	4" (102mm)
Body of sleigh (front)	Teardrops	Bright yellow	10" (254mm)
Body of sleigh (front)	Teardrops	Meadow green	6" (152mm)
Body of sleigh (rear)	Teardrops	Bright yellow	8" (203mm)
Body of sleigh (rear)	Teardrops	Fuchsia	6" (152mm)
Body of sleigh (rear)	Teardrops	Periwinkle blue	8" (203mm)
Body of sleigh	Eccentric coils	True red	5" (127mm)
Body of sleigh	Eccentric coils	Fuchsia	5" (127mm)
Body of sleigh	Eccentric coils	Blush	5" (127mm)
Body of sleigh	Eccentric coil	Periwinkle blue	5" (127mm)
Body of sleigh	Tight coil	Periwinkle blue	6" (152mm)
Body of sleigh	Eccentric coil	Meadow green	5" (127mm)
Body of sleigh	Eccentric coil	Bright yellow	5" (127mm)
Body of sleigh	Eccentric coil	Bright yellow	8" (203mm)
Sleigh runners	Connected scrolls	White	7" (178mm)
Sleigh runners	Eccentric coil	Meadow green	1" (25mm)
Front of sleigh	Loose coil	Bright yellow	8" (203mm)
Back of sleigh	Loose coil	White	1" (25mm)

Quilled sleigh ornament pattern



Position of tight coil for hanging

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TIPS

QUILLING TIPS

- *Less is more, when it comes to glue. I use Sobo premium craft and fabric glue. Apply a small amount of glue to the edge of the rolled paper using a toothpick.*
- *To make a reusable work surface, cover a piece of white foam with waxed paper. You can insert pins into the foam to hold the rolled paper in place within the fretwork design.*
- *I use a pair of bent-nose tweezers to hold and place the rolled (quilled) strips because my fingers are too clumsy.*

Materials & Tools

Materials:

- Poplar plywood, 5-ply, ¼" (6mm) thick: 3" x 5" (76mm x 127mm)
- Quilling paper: meadow green, fuchsia, periwinkle blue, bright yellow, true red, blush, white
- Bead thread, 2mm dia.: hanger, 12" (305mm) per ornament
- Sandpaper
- Paint: white
- Glue: medium-consistency cyanoacrylate (CA); white craft, such as Sobo

Tools:

- Toothpicks
- Pins
- Foam covered with waxed paper
- Plastic rhinestone, 4mm: red
- Scroll saw blades: #5 reverse tooth
- Drill with assorted small bits
- Quilling needle tool
- Tweezers: bent nose

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.

SPECIAL SOURCES:

Quilling supplies and tools are available from Custom Quilling by Denise, 908-276-5661, www.customquillingbydenise.com.

Bell pattern for the **QUILLED CHRISTMAS ORNAMENTS** is in the pullout section.



Bob Crane of Wayne, N.J., is retired and spends his time creating hand-cut wooden jigsaw puzzles and quilled fretwork pieces, as well as gardening and biking.

Majestic Mustang Puzzle

Energetic design embodies the essence of nature

By Eric Van Malderen

This freestanding mustang puzzle appears to just hang in the air, especially when you don't use the optional base. Despite the impressive illusion, this puzzle can be completed in an afternoon.

Some pieces of this puzzle are very sharp and, therefore, very breakable. Handle your work with special attention. Also, new scrollers should practice cutting sharp angles in scrap wood before attempting this puzzle.

Selecting the Wood

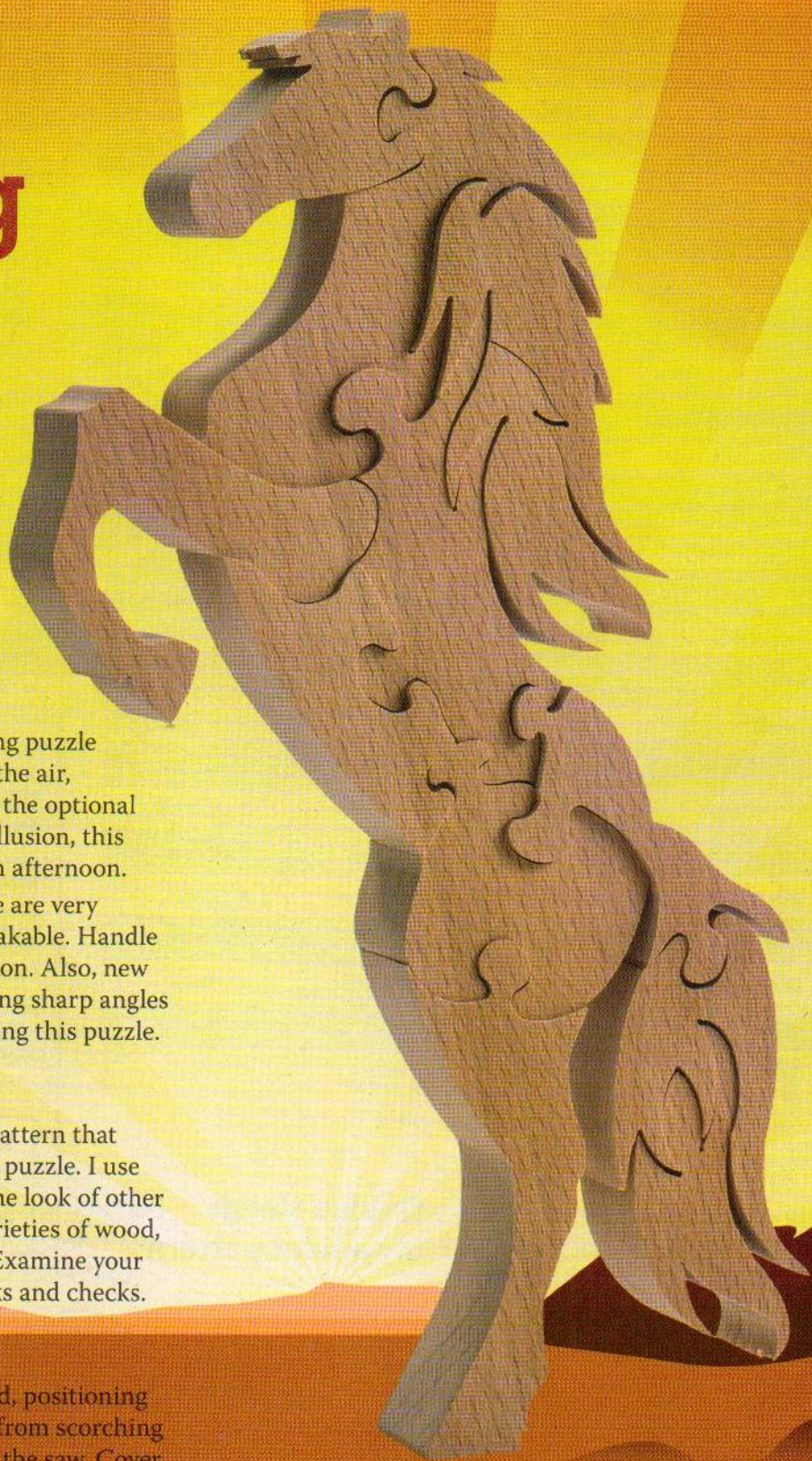
Choose a blank with a grain pattern that accents the overall look of the puzzle. I use beech, but you can simulate the look of other horse coats using different varieties of wood, such as mahogany or cherry. Examine your wood carefully for small cracks and checks.

Making the Puzzle

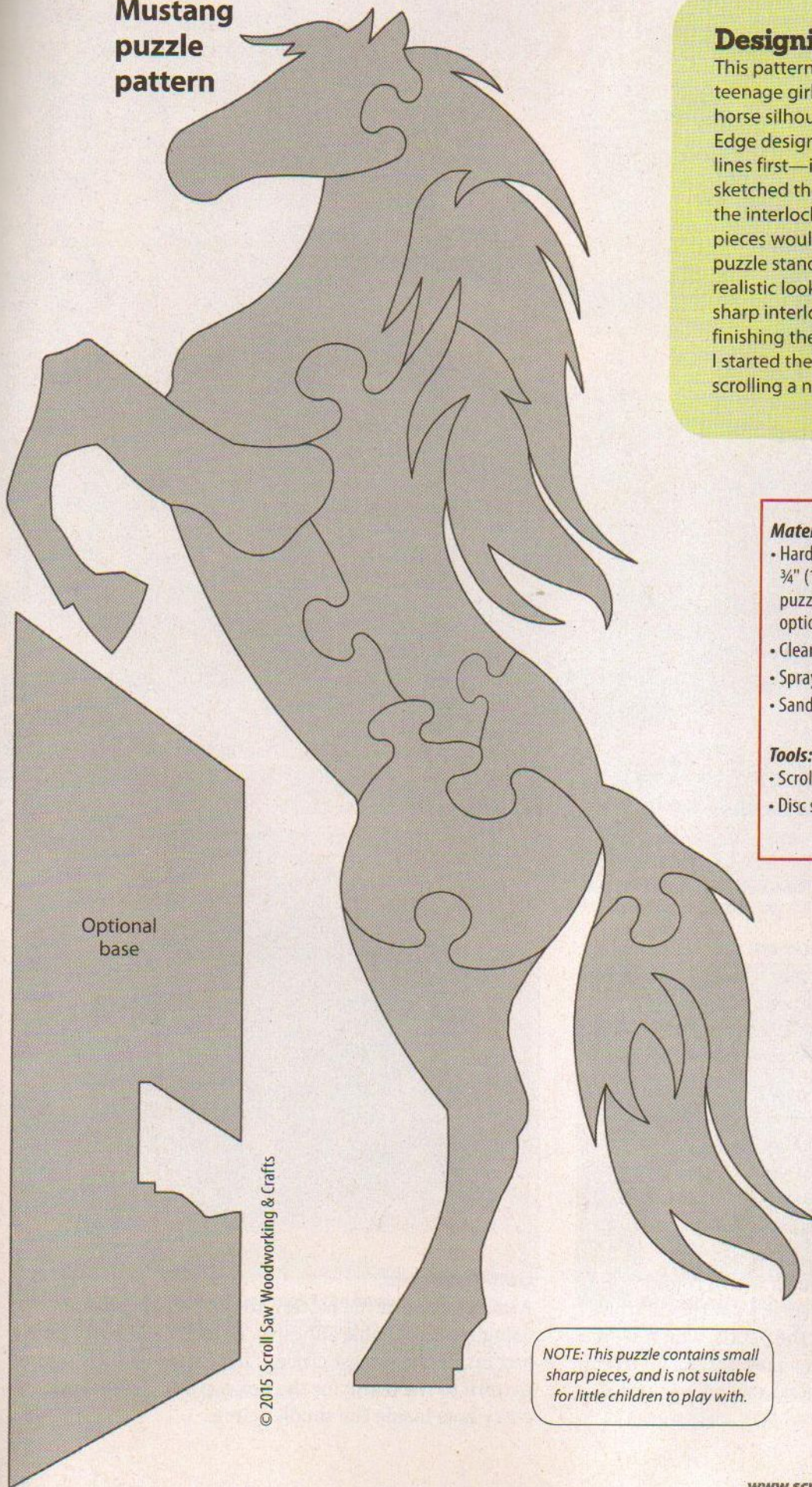
Attach the pattern to the wood, positioning it to avoid any knots. To keep from scorching the wood, reduce the speed of the saw. Cover the pattern with clear packaging tape to lubricate the blade. Change blades often.

Start scrolling at the front legs, and continue with the mane. Pay special attention when scrolling the sharp contours of the tail. The rest of the puzzle should be easy to cut.

Be careful when sanding this puzzle. Do not use a flap sander to round the edges; it will break the narrow and fragile pieces. I left the puzzle unfinished because I like the natural color of the beech, but you can apply clear Danish oil, if desired.



Mustang puzzle pattern



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Designing the Puzzle

This pattern began as a special request for a teenage girl. I started with a copyright-free wild horse silhouette and imported it into the Solid Edge design program. I drew the most important lines first—in this case, the silhouette. Then, I sketched the inner details, such as the legs, and the interlocking puzzle pieces, making sure the pieces would lock together securely while the puzzle stands up. To give this puzzle a more realistic look, I drew the tail and the mane with sharp interlocking pieces. After correcting and finishing the drawing/pattern on the computer, I started the real scrolling work. The first time scrolling a new pattern is always the final test.

Materials & Tools

Materials:

- Hardwood, such as beech, $\frac{3}{4}$ " (19mm) thick; puzzle, $5\frac{3}{4}$ " x $9\frac{1}{2}$ " (146mm x 241mm); optional base, $1\frac{3}{4}$ " x 6" (44mm x 152mm)
- Clear packaging tape
- Spray adhesive: repositionable
- Sandpaper: 180 to 220 grits

Tools:

- Scroll saw blades: #5 skip reverse-tooth
- Disc sander

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.

NOTE: This puzzle contains small sharp pieces, and is not suitable for little children to play with.



Eric Van Malderen lives in Dendermonde, Belgium, with his lovely wife, Rita, and awesome

daughters, Mieke and Sarah. Eric works at the Belgium railways as G.I.S. designer in Brussels. He received his Hegner scroll saw in 2002 as a 40th birthday present from his wife.

Christmas Rose Box



A compound-cut flower is the perfect accent for this unusual box design

By Carole Rothman

Flowers that bloom in winter are special, bringing surprising beauty during stark weather. This festive box, with its colorful ribbons and faithful rendition of the Christmas rose (*Helleborus niger*) will bring year-long cheer to the lucky recipient.

I sanded and shaped the compound-cut petals to achieve a delicate look. Two products familiar to cake decorators—artificial stamens and dusting powders—add a realistic touch to the completed flower. Narrow strips of dyed red veneer, cut across the grain, look exactly like grosgrain ribbon and are flexible enough to bend around gentle curves.

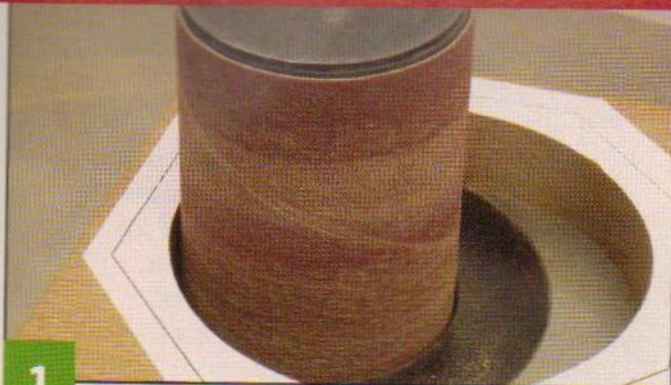
The box body is easy to make, with a round interior that makes sanding a snap. I cut the lid from thin wood to reduce stress on the petals, which serve as handles. To minimize the tendency of the lid to cup, the lid liner was made from thicker wood, cut and re-glued to increase stability.



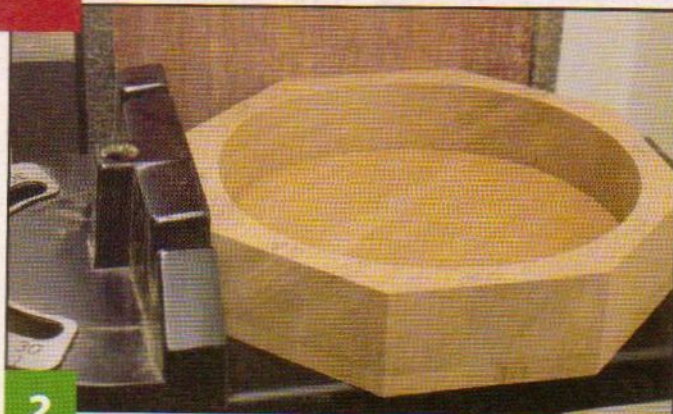
Getting Started

Attach a copy of the pattern to the box body blank using repositionable adhesive. Drill a blade-entry hole just inside the largest circle. Then, attach a copy of the pattern to the blank for the box top and drill a blade-entry hole inside the smaller circle.

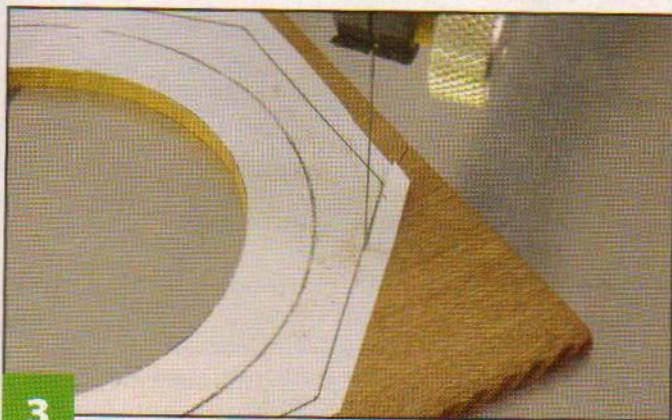
ROSE BOX: MAKING THE BOX



1 **Cut and sand the inside of the box body.** Use a #7 blade. Remove the center of the pattern and save it for Steps 7 and 8. Sand with a spindle sander.



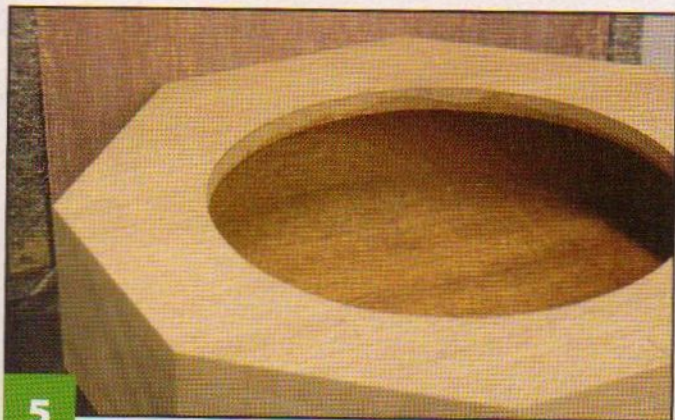
2 **Glue and clamp the box bottom to the body.** Allow it to dry for 10 minutes, loosen the clamps, remove any squeeze-out, re-clamp, and let the glue dry fully. Cut the perimeter and remove the pattern. Use a belt sander to smooth the outside of the body. Check the length of each side to ensure all of them are equal; sand to adjust as needed.



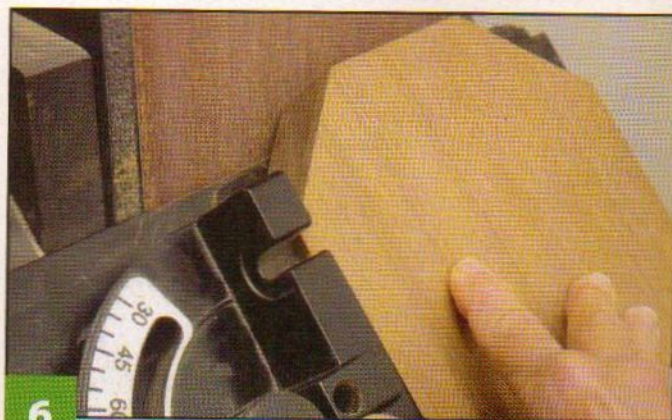
3 **Make the box top.** Cut along the smallest circle with a #3 blade. Then, cut the perimeter of the top, cutting to the outside of the line. Use a spindle sander to sand the opening until it's smooth and regular.



4 **Seal the inside of the box.** Apply a coat of shellac to the inside of the box body and the underside of the box top. Do not apply shellac to the gluing surfaces. When the shellac is dry, sand the sealed surface lightly with 220-grit sandpaper.



5 **Glue and clamp the box top to the box body.** Keep the overlap even on all of the sides. After the glue is dry, sand the box top flush with the body, and make sure all eight sides are the same. Mark the center of each side on the underside of the box to help with the ribbon placement later.



6 **Bevel the box top.** Set the belt sander table to 45° and sand a bevel that extends $\frac{1}{8}$ " (3mm) down from the top. Use a pneumatic drum sander to shape the bevel into a soft curve. Use the drum sander to soften (round) the edges of the bottom, sides, and center opening. Hand-sand the exterior of the entire box with progressively finer grits of sandpaper up to 220 grit.

ROSE BOX: MAKING THE LID



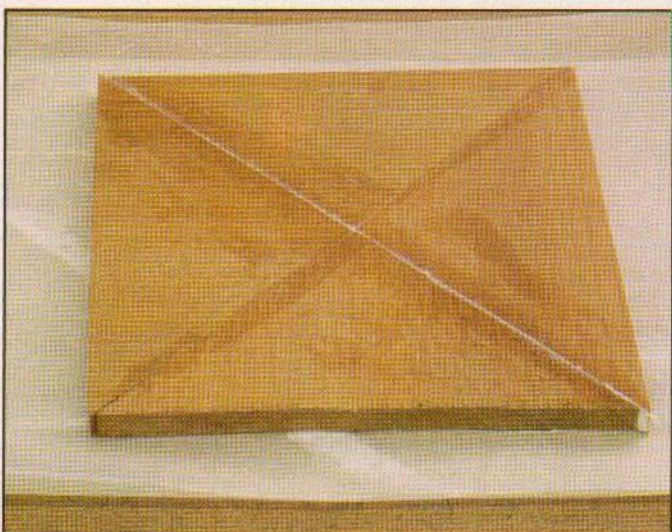
7

Cut the lid. Attach the remainder of the pattern saved from Step 1 to the lid blank, or draw a 4½" (114mm)-diameter circle on the blank. Mark the center point clearly with an awl. Cut to the outside of the line with a #3 blade. Remove the pattern and save for Step 8. Sand the edge of the lid until smooth. Use the pneumatic drum sander to round the upper edge of the lid into a smooth curve.

TIP

REDUCING WOOD MOVEMENT

Natural hardwoods can warp, cup, and twist based on the seasonal changes in humidity. Thin woods cup and twist easier than thicker woods. We will cut and re-glue the wood for the lid liner to increase its resistance to cupping. If you cut two 4½" (114mm) squares rather than one and exchange halves after the first glue-up, you'll end up with two lid-liner blanks, one with all endgrain at the edges and the other with all face grain, for a very attractive look. These glued joints aren't very strong, but they only need to hold until you cut the liner and glue it to the lid.



8

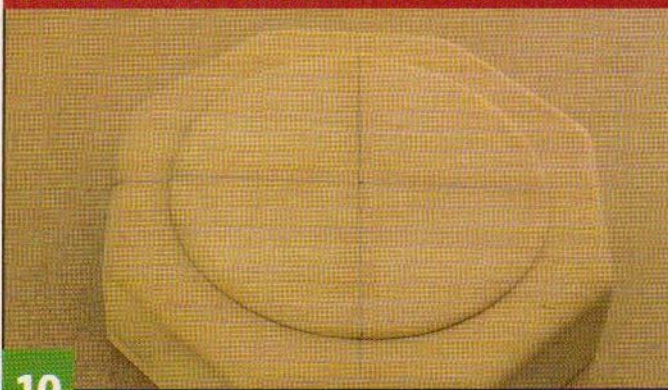
Cut the lid liner blank in half on the diagonal. Sand or joint the edges smooth. Invert one of the pieces and glue the two halves together. To get a good joint, rub the pieces back and forth until they drag and then let the assembly dry on waxed paper. Cut the glued blank in half again on the other diagonal and glue again. When the glue is dry, sand both sides smooth. Then, use the pattern saved from Step 7, or draw a 4" (102mm) circle with a compass, and cut the circle. Check the fit by holding the liner with a piece of masking tape, and then inserting the liner into the top opening. It should rotate freely. *Note: Before attaching the lid liner, choose the most attractive face of the box body for the front and mark it. Then, place the lid on the box, rotate it to find the best grain match, and mark the front of the lid.*



9

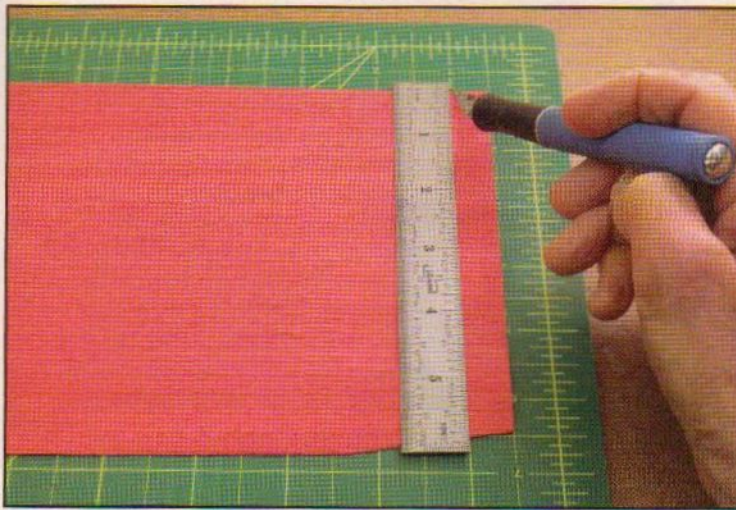
Attach the lid liner to the lid. Use masking tape to attach the lid liner to the lid. Insert the assembly into the box opening, making sure the fronts of the box and lid are aligned, and center the lid on the box top. Mark the position of the liner on the lid. Remove the liner and tape. Apply dots of Nexabond glue to the lid liner, press it into position, and let dry, clamping if needed.

ROSE BOX: ADDING THE RIBBONS



10

Draw the guidelines for the ribbons. Use a straight edge and square to divide the lid and box into quarters, using the center mark as a guide. Ensure the lines are vertical and centered on the box sides. Remove the lid. Extend the box lines into the opening and the lid lines to the under side.



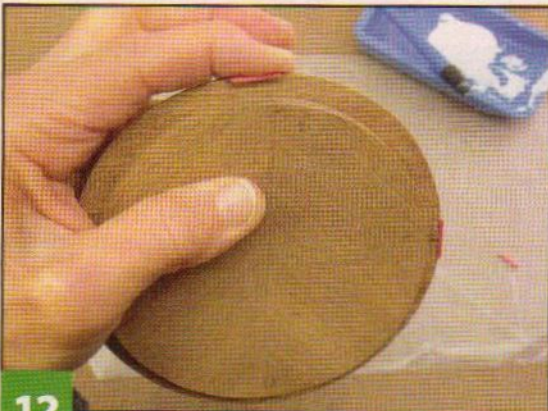
11

Cut the veneer ribbons. Use a hobby knife, straight edge, and self-healing mat. For the lid, cut three $\frac{1}{2}$ " (13mm)-long by 5" (127mm)-wide strips of red veneer, cutting across the grain. For the box top and sides, cut eight $\frac{1}{2}$ " (13mm)-long by 4" (102mm)-wide strips. The extra strips allow for breakage.

TIP

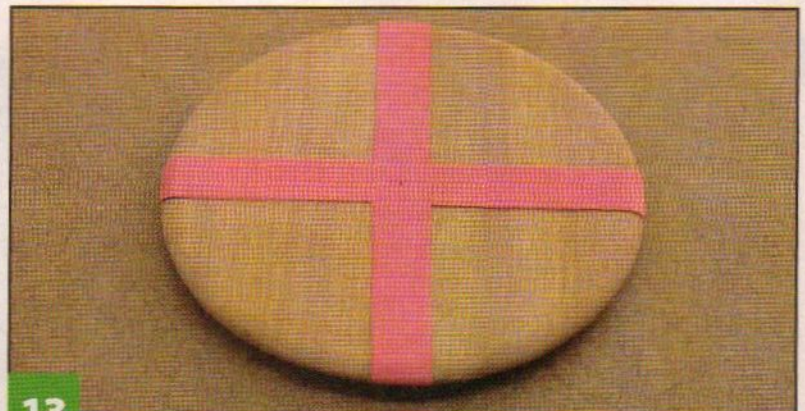
TERMINOLOGY

To prevent miscuts when cutting the veneer ribbons, note that "length" is measured along the grain and "width" is measured across the grain.



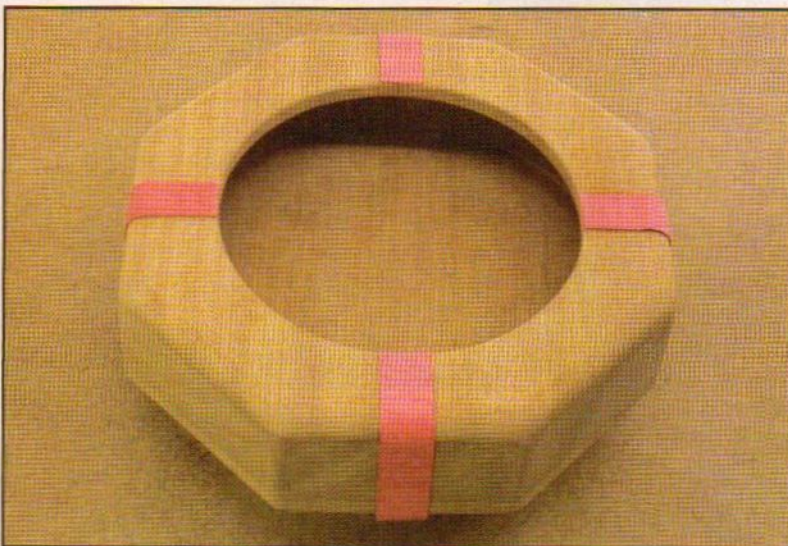
12

Attach the first lid ribbon. Trim a 5" (127mm)-long strip so it extends slightly past the bottom edge of the lid when laid across the center. Apply a thin, even layer of wood glue to the part of the strip that attaches to the top of the lid; use Nexabond glue on the ends that curve around the edges of the lid. Position the center of the strip on the pencil marks. Press and hold the ends flush against the curved edges of the lid.



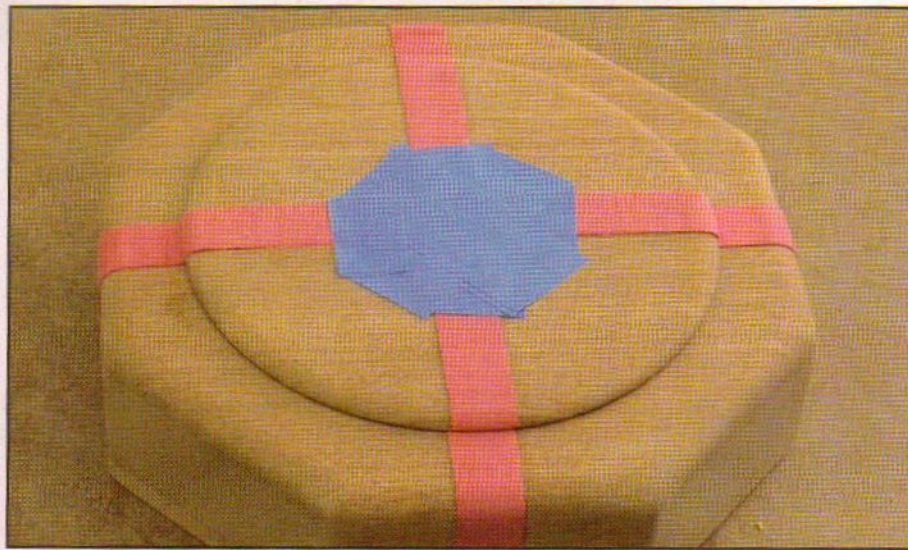
13

Attach the second lid ribbon. Mark the center of the glued strip with an awl, using the remaining pencil line as a guide. Cut a 5" (127mm)-long strip in half. Butt one end of each half against the glued ribbon and mark the other end where it meets the edge of the lid. Trim each strip so it extends slightly beyond the bottom edge and glue them into place as in Step 12. When the strips are dry, trim the overhanging veneer with a hobby knife and sand the edges to soften. Place the lid on the box in its proper orientation. Check the pencil lines on the box for continuity with the lid ribbons and redraw if necessary.



14

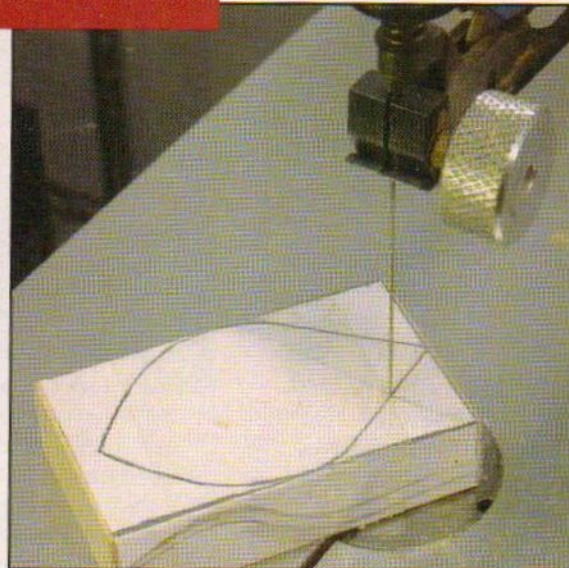
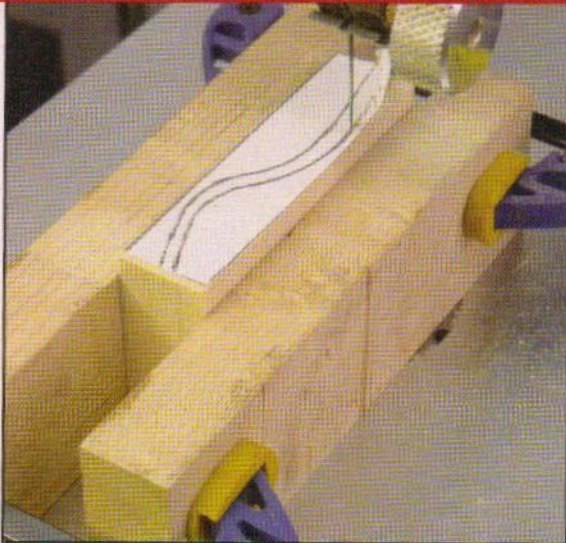
Attach the box ribbons. Elevate the box slightly to accommodate the veneer overhang. Trim four of the 4" (102mm)-long strips so they extend from the box opening to slightly below the lower edge, easing the strips gently over the edge of the box top to prevent breakage. For each strip, apply a thin coat of wood glue evenly over the surface. Using the top and bottom pencil marks as guides, start at the top opening and work downward carefully to the box bottom, pressing the strip firmly into place. Put the lid in place briefly to check for correct positioning of the ribbon. Remove any glue squeeze-out. Let the glue dry thoroughly.



15

Finish the box. When the glue is dry, trim away any veneer that protrudes into the top opening and trim the ends flush with the bottom of the box. Sand a slight bevel onto all of the ribbon edges to prevent snagging. Sand the faces of the strips up to 240 grit. Use blue painter's tape to mask the center of the lid where the petals will be glued. Apply a sealer coat of shellac to all accessible surfaces of the box and lid. Mark and sand away any glue spots. Remove the blue tape. Sand the box and lid smooth with 320-grit sandpaper.

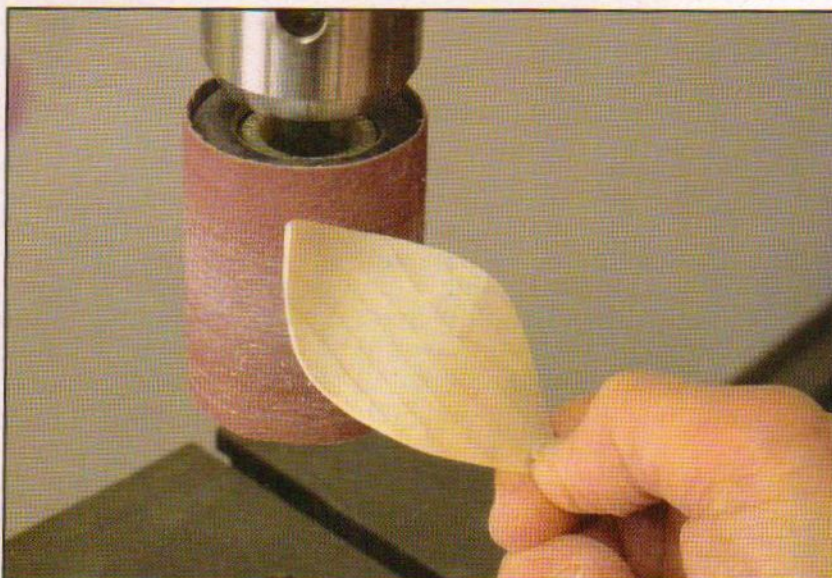
ROSE BOX: ADDING THE FLOWER



16

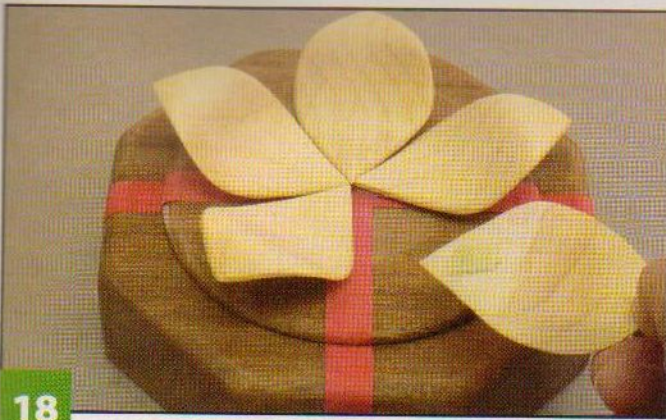
Cut the petals.

Clamp the blank between two pieces of scrap with the side-view pattern up. Cut the side profile with a #7 blade. Tape the pieces back together with clear packaging tape and cut the top profile. Remove the petal from the scrap. Repeat the process to cut six petals (the extra petal will allow for breakage).

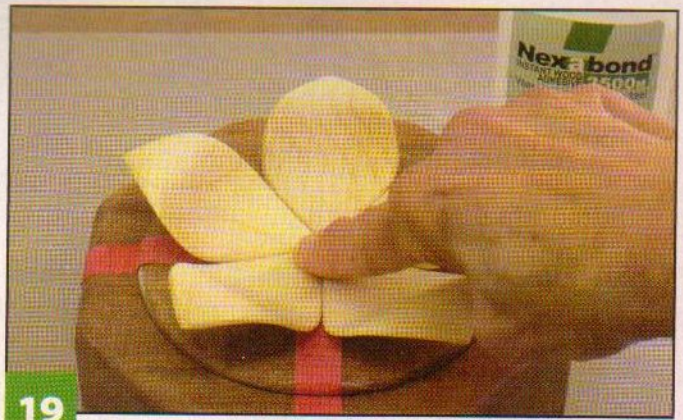


17

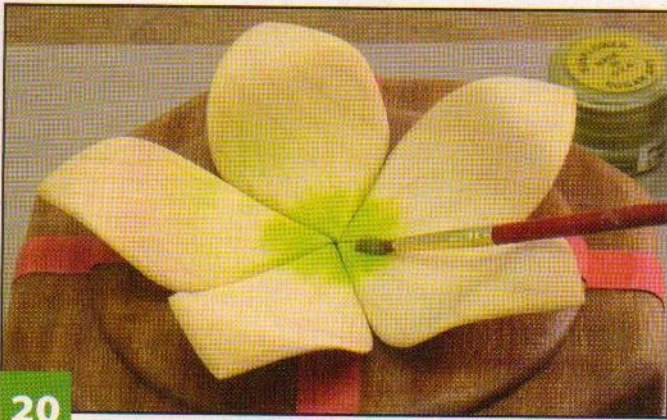
Sand the petals. Use a 1½" (38mm) spindle sander to smooth the upper and lower curves. Carefully use a belt sander to remove irregularities on the edges and flat surfaces. Check the thickness of the edges as you sand for uniformity, sanding until the petal is about ⅜" (2.5mm) thick. Use a pneumatic drum to round the upper edges. This gives the petal a more delicate look without making it excessively fragile. Finish sanding by hand up to 240 grit.



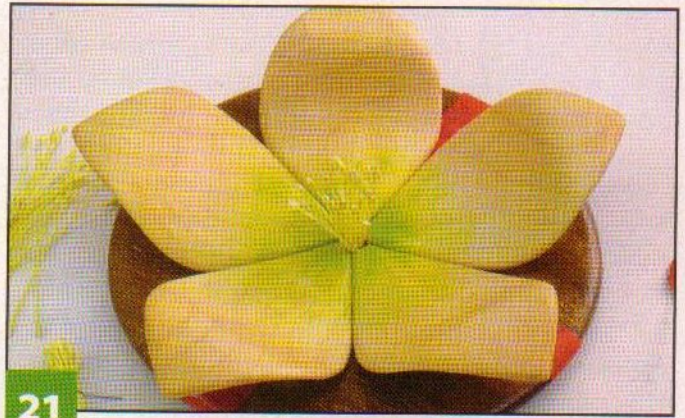
18 **Dry-assemble the petals.** Mask the gluing surface of the petals with blue tape. Apply a sealer coat of shellac to the petals and let dry. Remove the tape and sand with 320-grit sandpaper. Using loops of masking tape, position the petals on the lid. Their bottom ends should meet at the awl mark in the center of the lid.



19 **Attach the petals.** Working one petal at a time, remove the petal and tape, apply Nexabond glue, return the petal to its position, and hold until the glue sets. Repeat with the remaining petals and let them dry fully.



20 **Color the center of the flower.** Use petal dust, powdered colors, or diluted acrylic paint to color the center 1" (25mm) of the flower. Use scraps of aspen to test your colors and concentration. The goal is to obtain a light wash of color. Apply several coats of spray lacquer to the box and lid. Rub down between coats with 0000 steel wool as needed. Apply the spray in thin coats to avoid drips and sags.

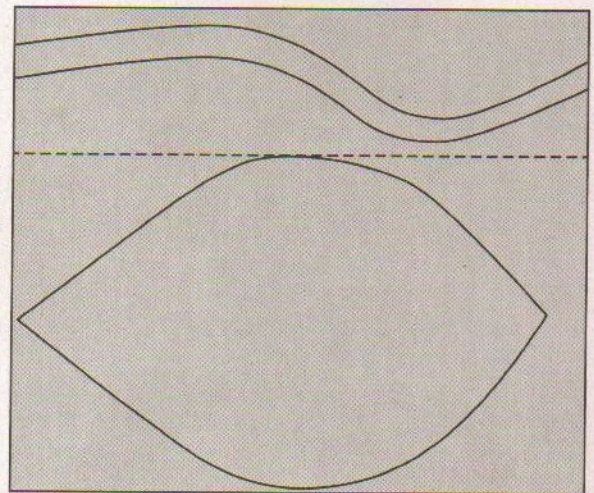


21 **Add the stamens.** Clamp the lid firmly to the drill press table and set the depth stop about $\frac{1}{8}$ " (3mm) above the table. Drill a $\frac{1}{4}$ " (6mm)-diameter hole in the center of the flower. Gather enough stamens to fill the hole without forcing. Trim the ends so the stamens flare outward without sprawling excessively. If you'd like a contrasting center, use a single lily stamen, colored with paint or petal dust.



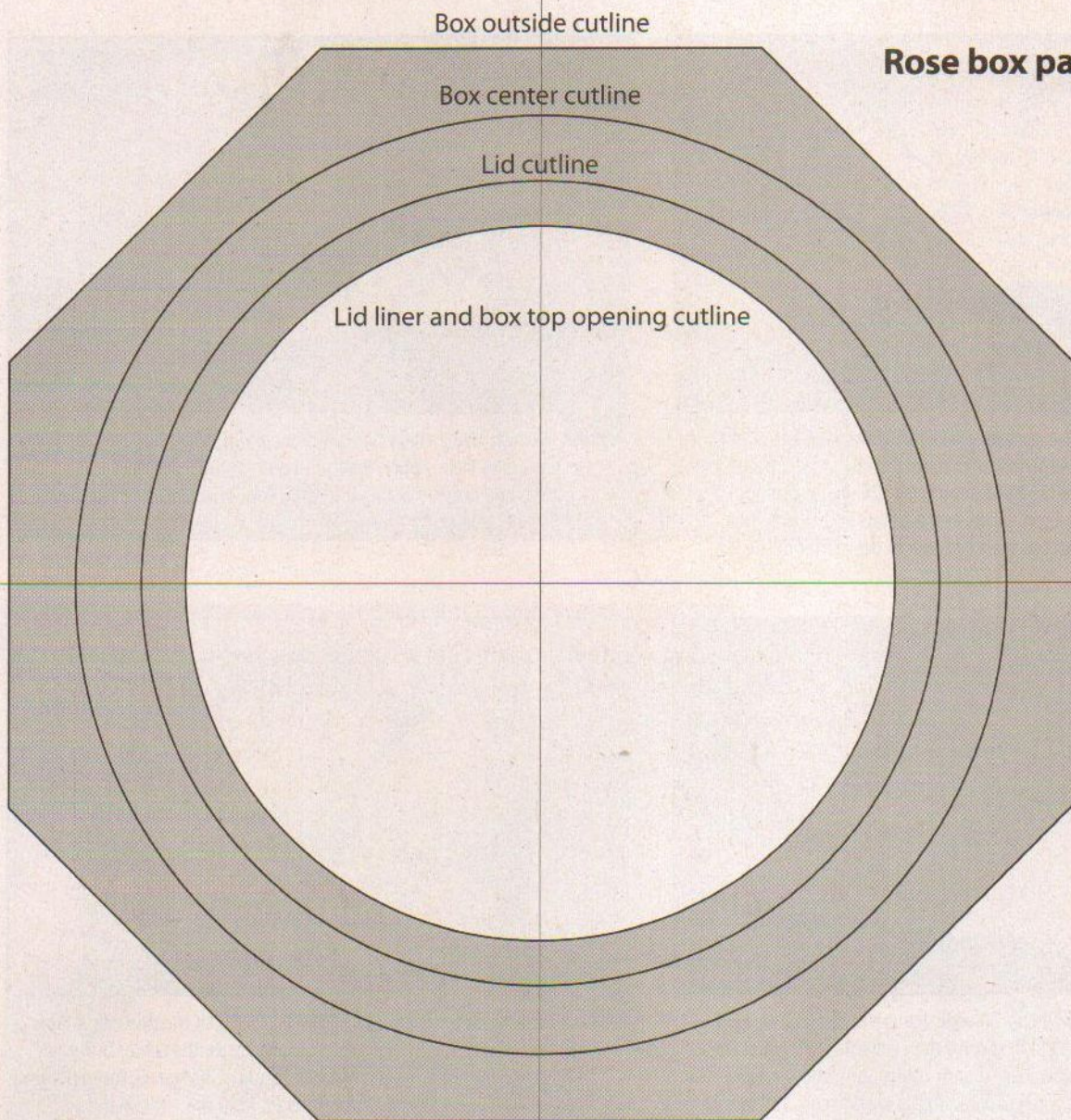
22 **Glue the stamens.** Fill the hole about halfway with Nexabond glue and push the stamens in firmly. Use a toothpick or tweezers to arrange them, and remove any stamens that bend or cannot be positioned properly. Add extra stamens if needed before the glue sets.

Rose petal pattern



© 2015 Scroll Saw Woodworking & Crafts

Rose box pattern



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Materials & Tools

Materials:

- Sapele, approx. 1 1/8" (29mm) thick: box body, 7" x 7" (178mm x 178mm)
- Sapele, 1/4" (6mm) thick: box top and bottom, 2 each 7" x 7" (178mm x 178mm)
- Sapele, 1/8" (3mm) thick: lid, 5" x 5" (127mm x 127mm)
- Hardwood, 1/4" (6mm) thick: lid liner, 4 1/2" x 4 1/2" (114mm x 114mm)
- Aspen, 3/4" (19mm) thick: petals, 6 each, 1 3/4" x 3" (44mm x 76mm)
- Veneer: 1 sheet red
- Glue: repositionable adhesive; wood; Nexabond (medium setting time)
- Sandpaper
- Commercial flower stamens, such as those made for cake decorators
- Dusting powder or acrylic paint: yellow-green

- Shellac (spray or brush-on)
- Lacquer: clear gloss spray
- Tape: blue painter's; masking

Tools:

- Scroll saw blades: #3, #7 reverse-tooth
- Drill press with bit: assorted small, 1/4" (6mm)-dia. twist
- Bowl press or clamps and boards
- Drill press clamp
- Small clamps and scrap wood
- Self-healing mat
- Hobby knife and blades
- Metal straight edge
- Right-angle square or protractor
- Sanders: spindle, belt, pneumatic drum

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.



*Carole Rothman of Pawling, N.Y., is a retired psychologist and college professor. She is also an award-winning cake decorator. Visit Carole online at www.scrollsawbowls.blogspot.com. You'll find her books *Creative**

Wooden Boxes from the Scroll Saw and Wooden Bowls from the Scroll Saw at www.foxchapelublishing.com.



Micaiah Lang creates scroll-sawn products to sell in his Etsy shop.

The Next Generation

Enterprising teen is an Etsy entrepreneur

By Kathleen Ryan

I love the smell of the sawdust and the feeling I have when I get to the end of a project and look and see something that I made with my own hands," said Micaiah Lang. The 13-year-old from Cottontown, Tenn., makes wooden coasters, puzzles, trivets, ornaments, and decorative items on his scroll saw and sells them through his own Etsy shop.

A church friend introduced Micaiah to the scroll saw four years ago. "He invited us over and showed us his shop with his scroll sawing outfit, and he actually let me try it. I really liked it!" Micaiah recalled. Inspired, he used savings to purchase a used scroll saw. "But it burned out after about a week, so my parents purchased my woodworker friend's used DeWalt DW788 scroll saw, which was much more suitable for learning and advancing my skill."

Since then, Micaiah has moved from simple to more advanced free patterns he finds on the Internet. "We quickly saw that God had given Micaiah an unusual skill to work with his hands," said his mother, Rebecca Lang. She had sold on Etsy for years and encouraged Micaiah to open his own shop. He did on December 1, 2012. Now, he has plans for expanding the business. "I would like to enlarge it to at least 50 items and include things like key racks, lazy Susans, and cutting boards," he said. "I would also love to tackle more complicated patterns that I've seen in *Scroll Saw Woodworking and Crafts* magazine!"

Micaiah is the oldest of six children, and his entire family has rallied around his interests. "It was a lot of work at the beginning because I had to practice so much, but my parents are very supportive. Papa takes me to get supplies and helps me find good sources for specialty woods. Mama sets up the photo shoots of the

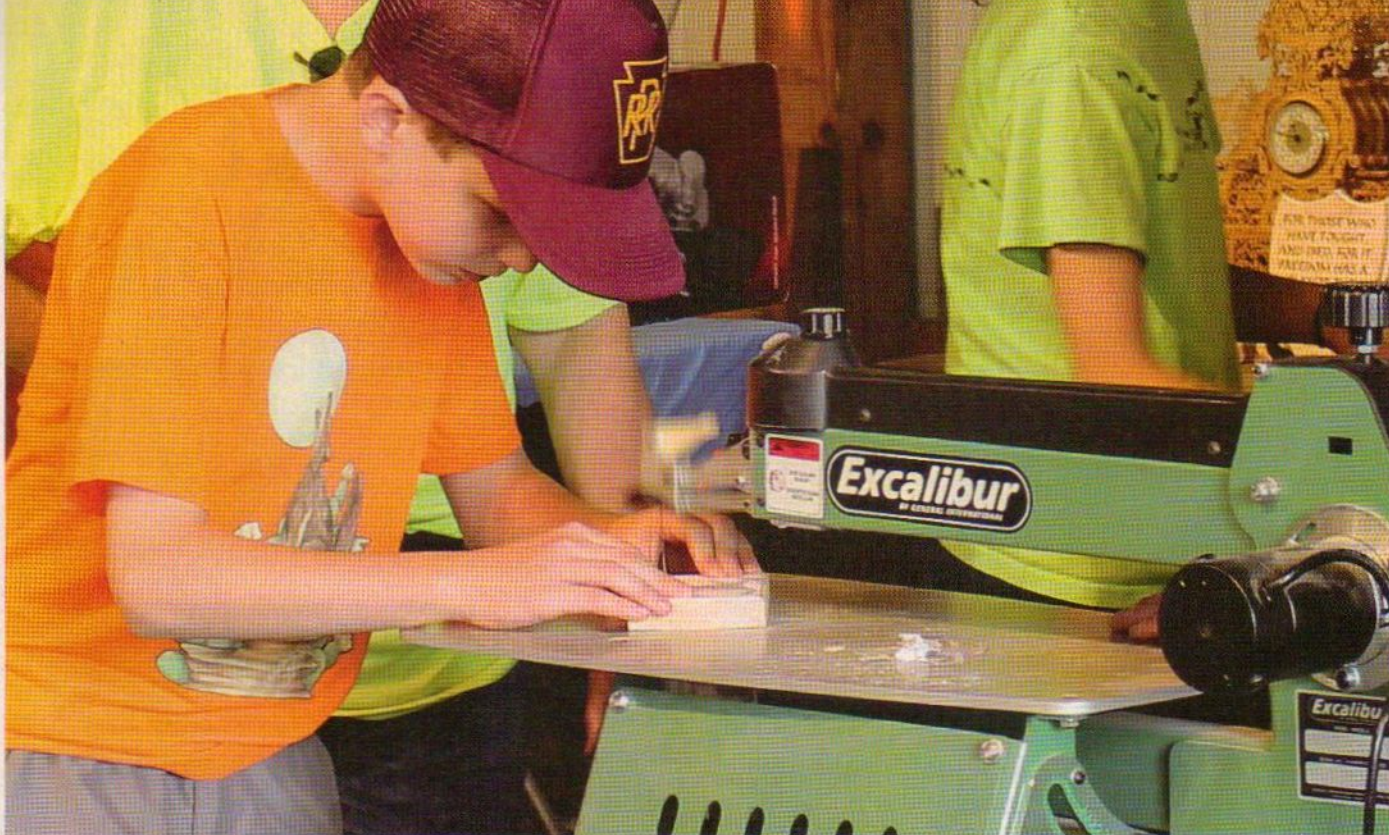
items I make, edits the photos, and helps with packing and shipping," he explained. Micaiah's youngest sister even scribbled some of her very best artwork all over his boards. "That required some major sanding to erase," Micaiah moaned. "My little sisters love playing with the scraps leftover from projects. My oldest sister is also interested in the business. I've considered hiring her to help sand and stain my projects. However, we have to agree on a payment scale first!"

Micaiah's other interests include reading, fishing, and making electrical inventions. He has no idea what the future might hold for him. But for now, at least, Micaiah is perfectly content being an Etsy entrepreneur. "I really enjoy scroll sawing very much and would like to keep it up as long as I can."

See more of Micaiah's work at www.outscrolling.etsy.com.

Micaiah makes projects using patterns he finds online and in magazines.



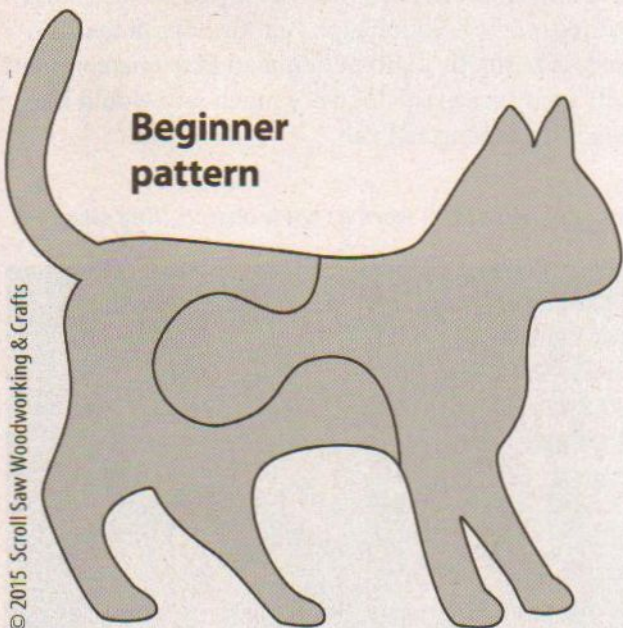


Teach a Tween

Want to get the kids in your life into scrolling? Grab some scrap wood and follow our easy instructions.

See *Scroll Saw Basics* on page 70 for more details.

Beginner pattern



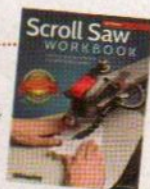
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FURTHER READING

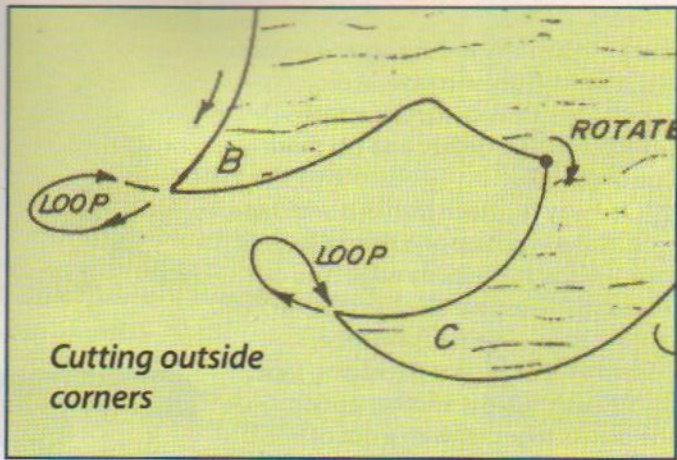
Scroll Saw Workbook

by John A. Nelson

Available for \$16.99 + \$3.99 S&H (parcel post) from Fox Chapel Publishing, www.FoxChapelPublishing.com, 800-457-9112, 1970 Broad St., East Petersburg, Pa., 17520, or check your local retailer.

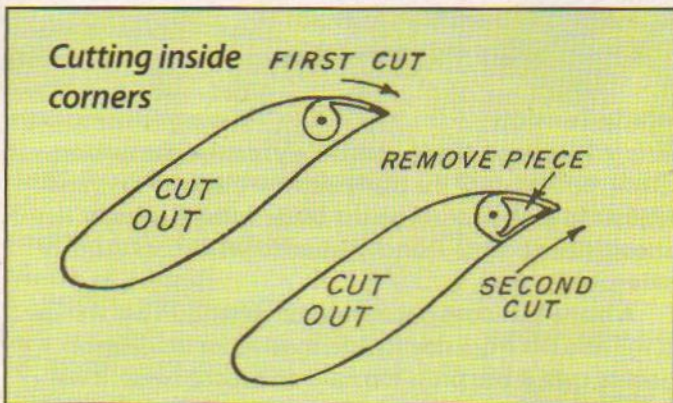


- 1. Prepare the wood.** Sand the wood and remove the sawdust. Explain that it is easier to sand a large piece of wood than a small cut puzzle piece. Use your favorite method to attach a copy of the pattern to the wood. Explain that using blue painter's tape on the wood or attaching the pattern to shelf paper makes the pattern easier to remove later and lubricates the saw blade to prevent scorched edges on the wood.
- 2. Prepare the saw.** Show your student how to install the blade. Ask him/her to run a finger over the blade to check that the teeth face down (the blade should feel smooth on the way down and rough on the way up). Then, check that the blade is at a right angle to the saw table using a small metal square, a block of wood, or a plastic card. Adjust the tension of the blade so it moves no more than $\frac{1}{8}$ " (3mm) from side to side. If you usually run your saw on a fast speed, turn it down. Finally, put on safety glasses and a dust mask.
- 3. Cut the perimeter of the puzzle.** Demonstrate holding the wood lightly and steering the wood to the saw blade gently. Encourage your student to relax and let the blade do the cutting—don't push too hard.



Cutting outside corners

- **Cutting outside corners** (tips of cat's ears): Show your student how to cut past the corner and loop around in the waste area to approach the next side of the pattern.



Cutting inside corners

- **Cutting inside corners** (between dog's tail and leg or cat's front legs): Show your student how to cut up to the corner from one direction, back out, and cut up to the corner from the second direction. If necessary, make a third cut to remove the piece.
- **Cutting detail lines** (dog's ear): Show your student how to follow the line, slow the saw, and back the blade out of the cut.

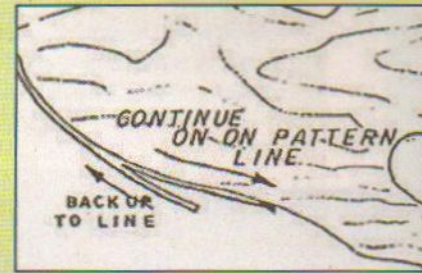
4. **Cut the puzzle pieces.** Once your student has cut the outside of the puzzle, have him/her cut along the center puzzle key line. Explain that when cutting a puzzle with more pieces, you should cut one piece at a time off the larger puzzle body, because you always want to hold the largest piece possible to make it easier to control the wood and to keep your fingers away from the blade.

5. **Finish the puzzle.** Remove the patterns, using mineral spirits if necessary to dissolve the adhesive. Tape sandpaper to the table or bench and rub the pieces on it to remove any fuzzies. Dunk the pieces in finish, such as Danish oil, if desired, and let dry. Ask your student to sign and date a puzzle piece, and congratulate him/her on a job well done!

Troubleshooting

- **Cutting away from the line into the waste:**

Back the blade to the place where it left the line and continue forward on the line.



- **Cutting away from the line into the project:**

Gradually taper the cut back to the line, making a gentle curve.



- **Puzzle pieces fit one way but not the other:**

Either the blade wasn't square to the table or the student pushed too hard and forced the blade out of alignment. Check that the blade is square, and consider tightening the tension a small amount. Encourage the student to relax and push gently, letting the saw do the work.

Correcting the path of the blade

Materials & Tools

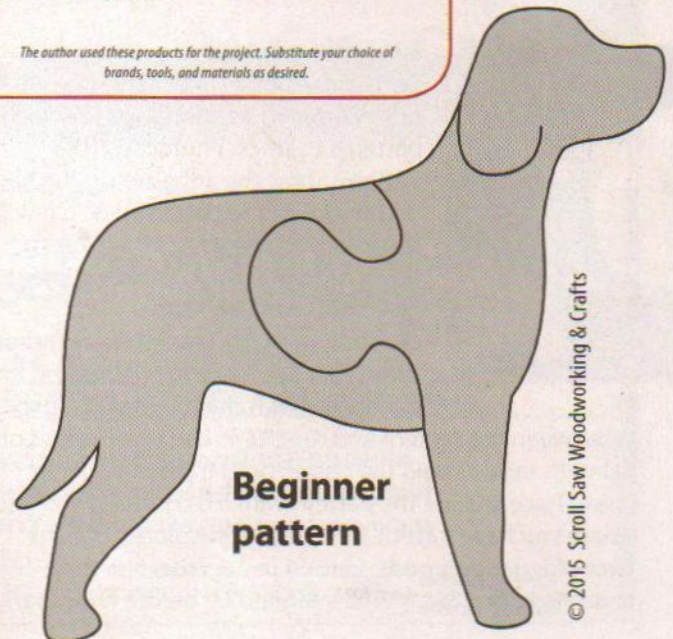
Materials:

- Scrap wood, ½" (13mm) thick
- Sandpaper
- Blue painter's tape, shelf paper, and/or spray adhesive
- Danish oil (optional)

Tools:

- Blades: #5 reverse tooth
- Metal square, block of wood, or plastic card
- Safety glasses
- Dust mask

The author used these products for the project. Substitute your choice of brands, tools, and materials as desired.



Beginner pattern

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To avoid repetitive instructions, this page is included in each issue to assist novice scrollers with basic scrolling techniques.



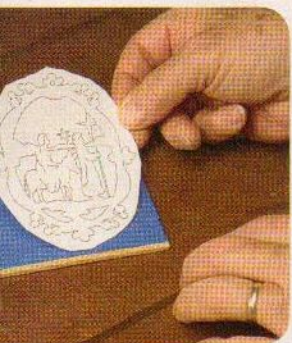
Squaring Your Table

Most scroll saws have an adjustable table that allows you to make cuts at different angles. There are times when you want the saw set at an angle, but most cutting is done with the blade perpendicular to the table. If the table is even slightly off-square, the cuts will be angled. This interferes with puzzle pieces, intarsia, segmentation, and many other types of scrolling projects.

The most common method for squaring a table uses a small metal square, or right angle tool. Set the square flat on the saw table against a blade that has been inserted and tensioned. Adjust the table to form a 90° angle to the blade.

The cutting-through method is also popular. Saw through a piece of scrap wood at least 3/4" (19mm) thick and check the angle of the cut using a square. Adjust the table until you get a perfectly square cut.

You can also use the kerf-test method. Take a 1 3/4" (44mm)-thick piece of scrap wood and cut about 1/16" (2mm) into it. Stop the saw, back the blade out, and spin the wood around to the back of the blade. If the blade slips easily into the kerf, the table is square. If it doesn't slide into the kerf, adjust the table and perform the test again until the blade slips in easily.



Attaching Patterns

Temporary-bond spray adhesive is the most common method used to attach patterns to stock. Photocopy the pattern. Spray the adhesive on the back of the copy of the pattern, wait a few seconds, and then press the pattern down onto the blank. Rubber cement or glue sticks work similarly.

You can also use graphite or carbon transfer paper. Place the pattern on the blank and slip a sheet of transfer paper in between the pattern and the blank. Use a few pieces of painter's tape to hold the pattern and transfer paper in place. Trace around the pattern with a red pen (so you know where you have traced). Choose a light-colored transfer paper for darker woods. Carbon paper costs less than graphite paper, but must be sanded off before finishing.

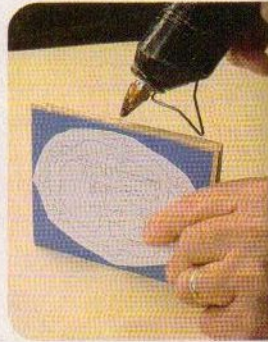
Stack Cutting

Stack cutting lets you cut several pieces of a project—or even several projects—at one time. Essentially, you attach several blanks together and cut them as one unit.

One way to attach blanks is with tape. Line all the layers up and wrap a layer of tape around the outside edge. You can also wrap the whole stack in tape for extra stability. Use masking tape, painter's tape, or clear packaging tape.

Hot-melt glue is another option. Glue the blanks together with a dot of hot-melt glue on each side.

You can also join pieces by driving brads or small nails into as many waste areas as you can. Cut off any overhanging nails as close to the surface as you can, and then sand them flush to avoid scratching or catching on the table.



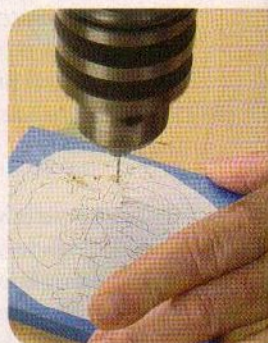
Blade Tension

Before inserting a blade, completely remove the tension. Clamp both ends of the blade into the blade holders and adjust the tension. Push on the blade with your finger. It should flex no more than 1/8" (3mm) forward, backward, or side to side.

A blade that does not have enough tension will wander. It will also flex from side to side, making for irregular or angled cuts. If you press too hard on a loose blade, it will usually snap. A blade that has too much tension is more susceptible to breaking and tends to pull out of the blade holders. In general, it is better to make the blade too tight rather than too loose.

Blade-Entry Holes

Some patterns have blade-entry holes marked. If the pattern doesn't, place the holes near a line to be cut to prolong the blade life, but don't place the hole on a curving line or inside corner (if possible). Drill the hole perpendicular to the blank. Use a drill press if you have one; otherwise, use a hand drill and make the holes as vertical as possible. Drill through the blank into scrap wood to prevent tear out on the back side of the blank. If you have the space, use a larger bit—it will make it easier to thread the blades through. For thin veining cuts, use the smallest bit the blade will fit through.



Removing Patterns

Dampen a glued paper pattern with mineral spirits to aid in removal. Commercial adhesive removers work as well. A quick wipe of mineral spirits will remove most adhesives left behind on the wood.

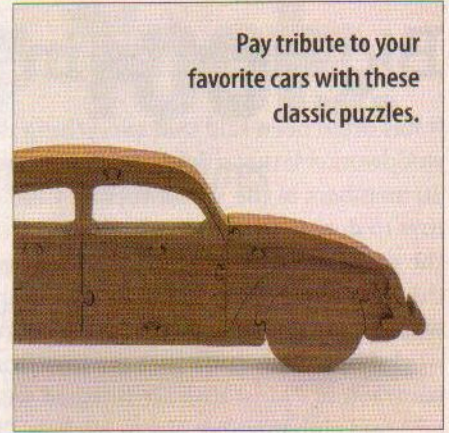
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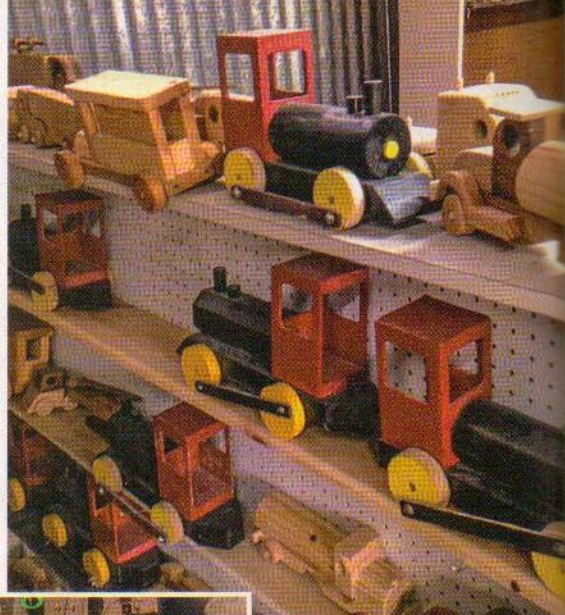
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Big Hearts in Texas

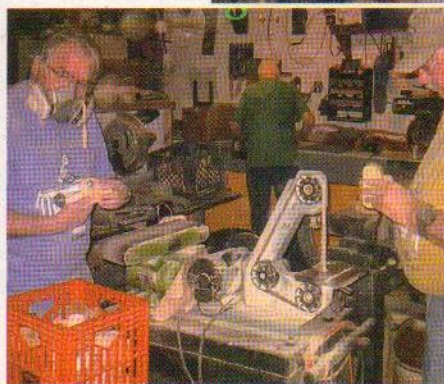
It has often been said that everything is bigger in Texas. For one group of woodworkers, that might actually be true. For the past several years, 25 to 30 members of the Woodworkers Club of Houston have been crafting wooden toys to donate to various charities both during the holidays and throughout the year. These big-hearted woodworkers will donate more than 4,000 toys this year alone. Working individually and collectively to craft every type of wooden toy imaginable, the group coordinates their efforts at bi-monthly workshops. They construct the toys from soft pine boards donated by local contractors. "Most toys are finished with a mixture of beeswax and mineral oil," said club member Norm Nichols. "But some organizations have requested that the toys remain unfinished so the children can finish or paint them themselves, to make it their own creation."

Recipient organizations include the Orthopedic Shriners Hospital in Houston, Shriners Burn Hospital in Galveston, several women's shelters, and local churches. The group also donates toys to the Houston police department's Blue Santa program, which allows officers to carry toys in their cruisers to give to children in times of crisis. "Reactions from our recipient organizations have been overwhelming," said Norm. "The children are overjoyed to receive handmade toys, so we will continue to make them as long as we have the wood and willing hearts and helping hands."

Learn more about the Woodworkers Club of Houston at www.wwch.org.



Above: Woodworkers in Houston will donate more than 4,000 wooden toys this year.



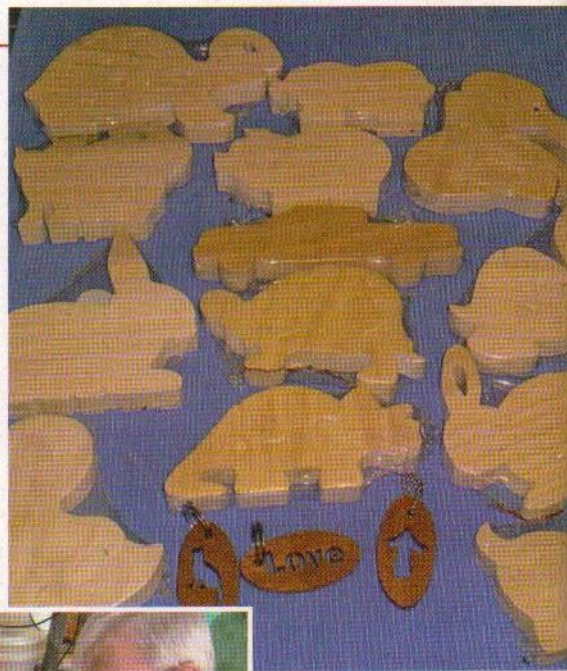
Left: Club members Norm Nichols, Jerry Harmson, and Denis Muras sand the toys.

One Man Making a Difference

An Oregon resident, Mike Mickelson, is determined to make a positive difference in the lives of others—especially during the holidays—using his scroll saw. Every year, Mike seeks local safehouses that serve as emergency sanctuaries for abused spouses and their children. Then he gets to work making and delivering a bundle of wooden gifts to put under their Christmas tree. The donations include toys, trucks, cars, and puzzles for the children, and key fobs and wooden "hugs" for the adults. "I was raised in a family that had to take refuge in a safehouse one Christmas when I was 8 years old, and I remember how terribly sad and confused I was," Mike recalled. "If not for the generosity of the local Moose lodge, my mom, three brothers, and I would not have had a Christmas at all."

Mike's message to other scrollers is simple. "You don't need to be in a club or part of any organized donation drive to help others in need. Every town across America has kids at Christmas and other times of the year that are in need of a touch of kindness. Even a small amount can make a big difference. Just ask around until you find a need ... then give 'til it makes you smile."

Visit Mike Mickelson's website at www.woodnthingsworkshop.com.



Above: Mike's assorted puzzles and key rings.



Left: Mike Mickelson scrolling wooden hugs.

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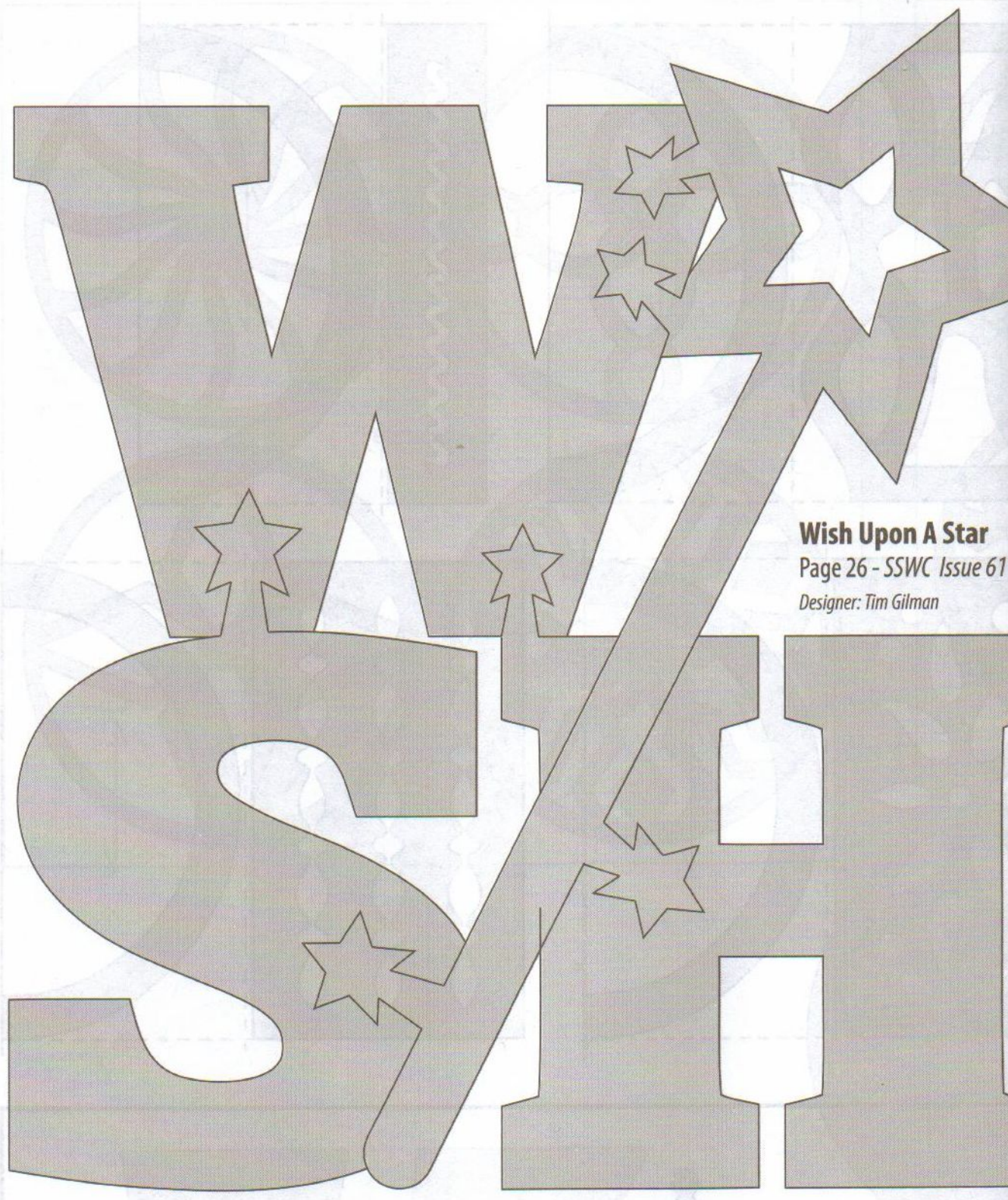


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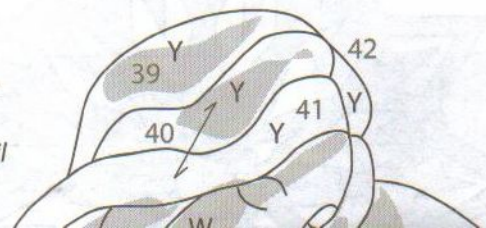
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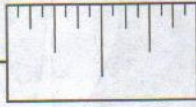
Wish Upon A Star
 Page 26 - SSWC Issue 61
 Designer: Tim Gilman

Woodburn
 face and
 hand detail

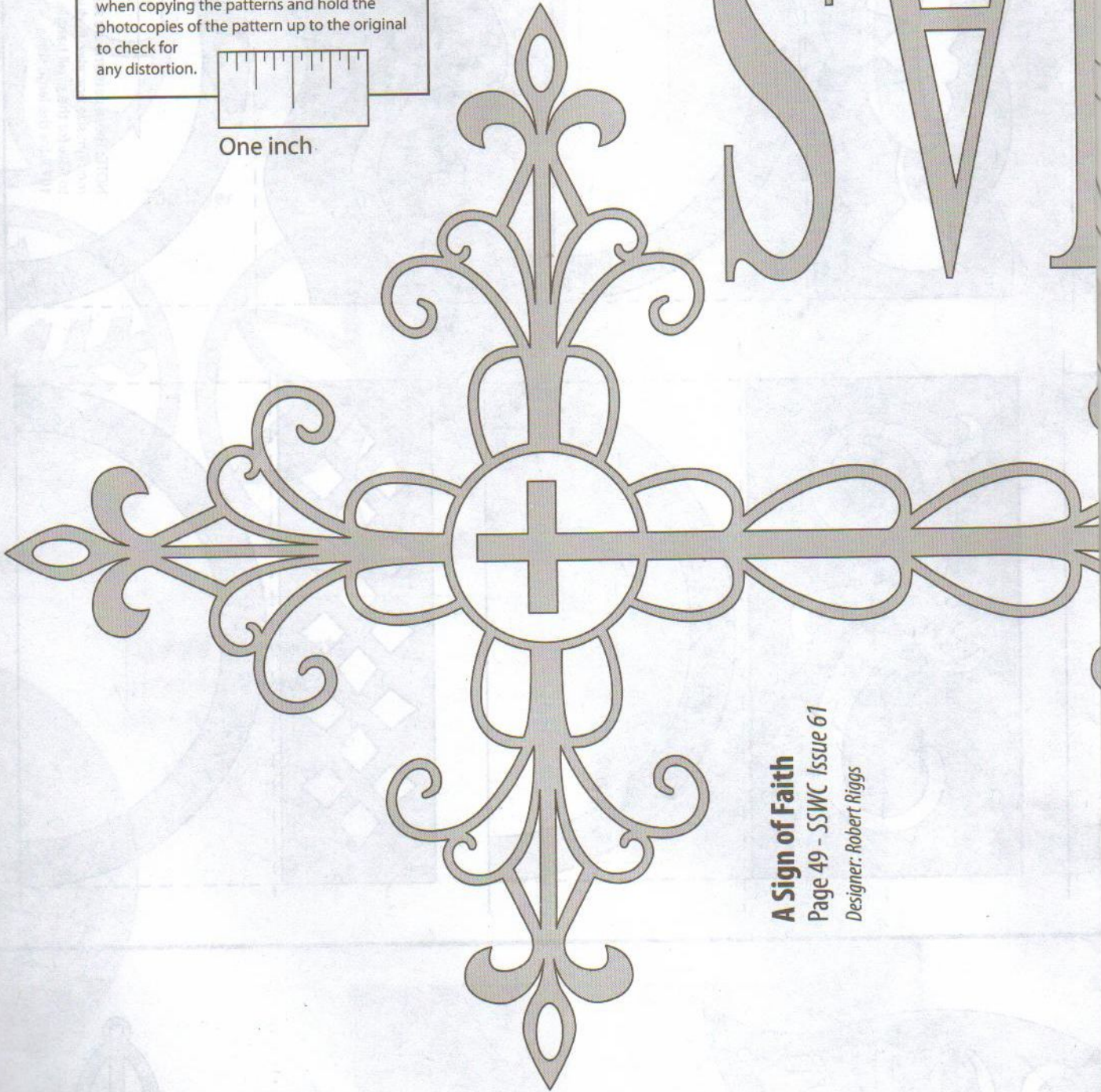
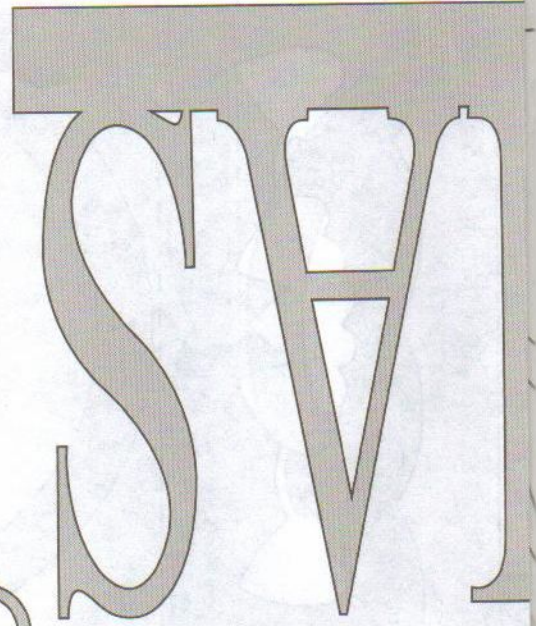


Notice about photocopying patterns

Some photocopiers and home printers can distort patterns when you print them, making them slightly off-size or stretching the image. Use the 1" bar printed below as a guide when copying the patterns and hold the photocopies of the pattern up to the original to check for any distortion.



One inch

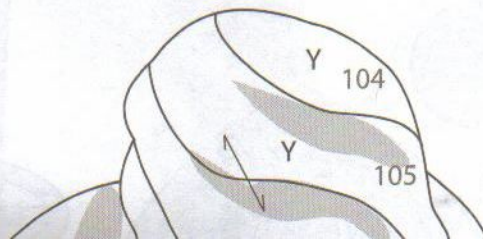


A Sign of Faith
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Designer: Robert Riggs

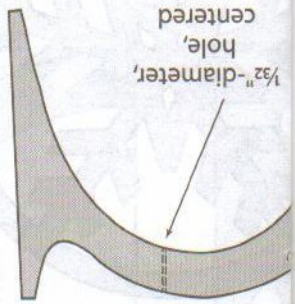
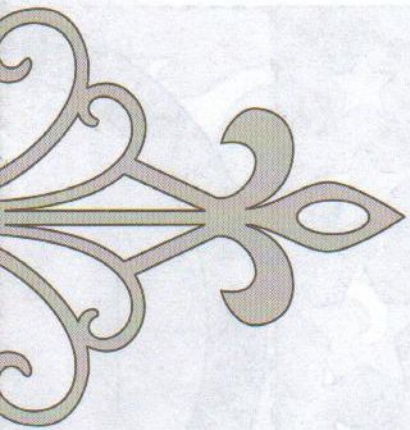
Legend

Start with 3/4" or 1" wood

← Grain direction



WILDFLOWERS



Art



Directions: 1. Use
2. Use the
3. Use the
4. Use the

SCROLLSAW woodworking & CRAFTS

Holiday 2015 - Issue 61

1970 Broad Street
East Petersburg, PA 17520

All patterns to be copied at 100% unless otherwise indicated.

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Note to professional copying services. You may make up to ten copies of these patterns for the personal use of the buyer of this magazine.



Christmas Star Word Art
Page 38 - SSWC Issue 61
Designer: Bruce Shea

102
103
94

Wings all white and 1/2" thick

Wings all white and 1/2" thick



64 L

65 L

66 L

69 L

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62 L

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5

Y..... Yellow shade of wood

W..... Any white wood 6A

.....Shaping guide

- - - - - 1/4" riser



Wings all white and 1/2" thick

Wings all white and 1/2" thick

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 Kathy Wise Designs
 PO Box 60
 Yale, MI 48097
 kathywise@bignet.net
 www.kathywise.com

7A



94

103

102

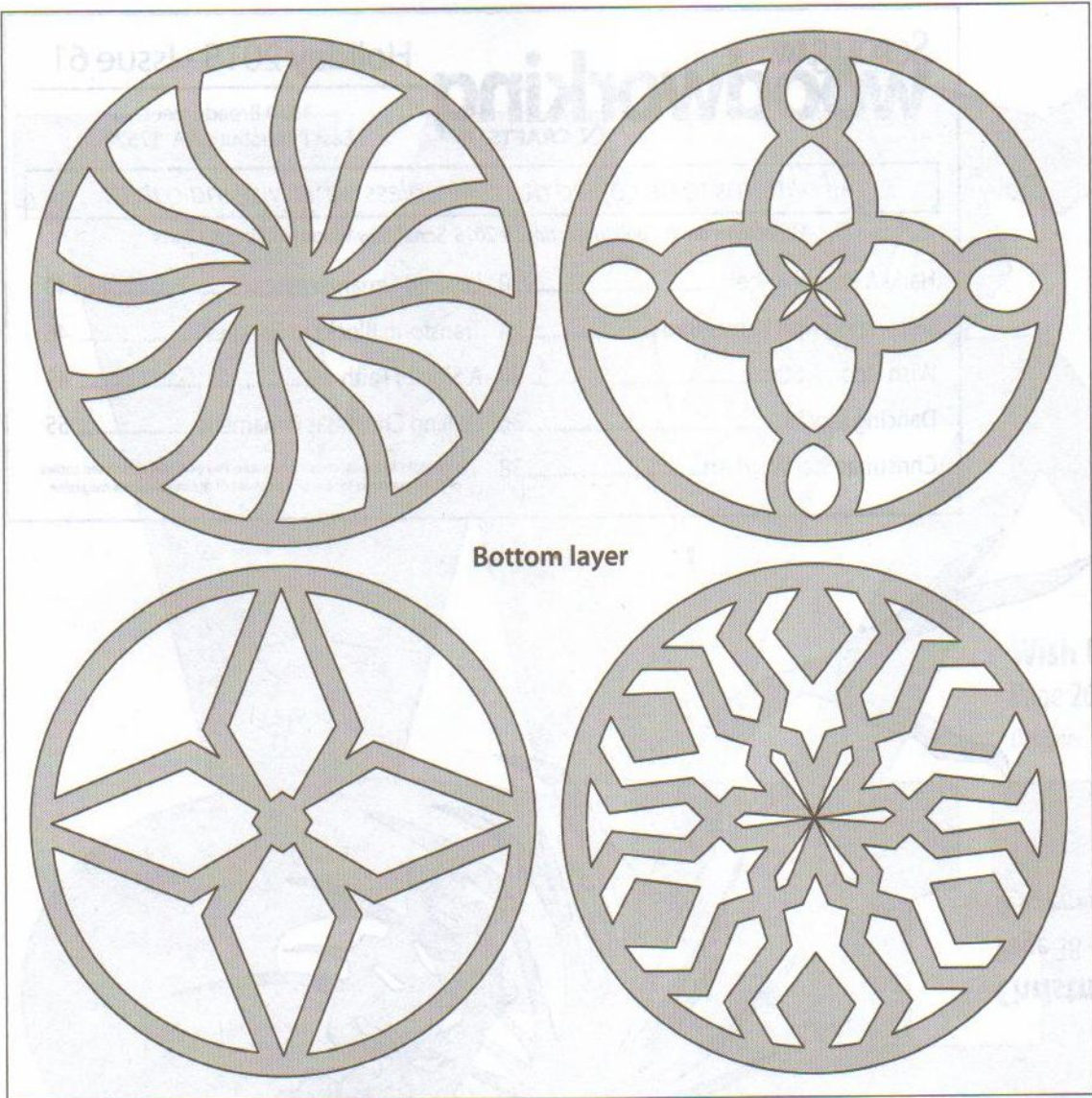
**Decorating with
Winter Birds**

Page 24

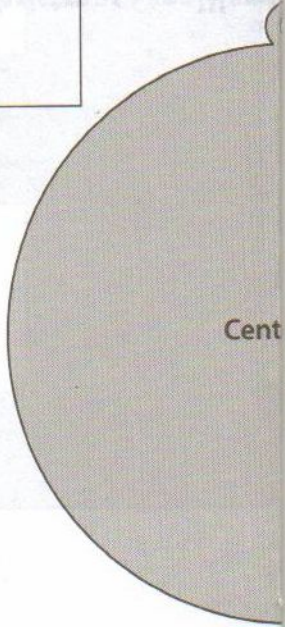
SSWC Issue 61

Designer: Alison Tanner

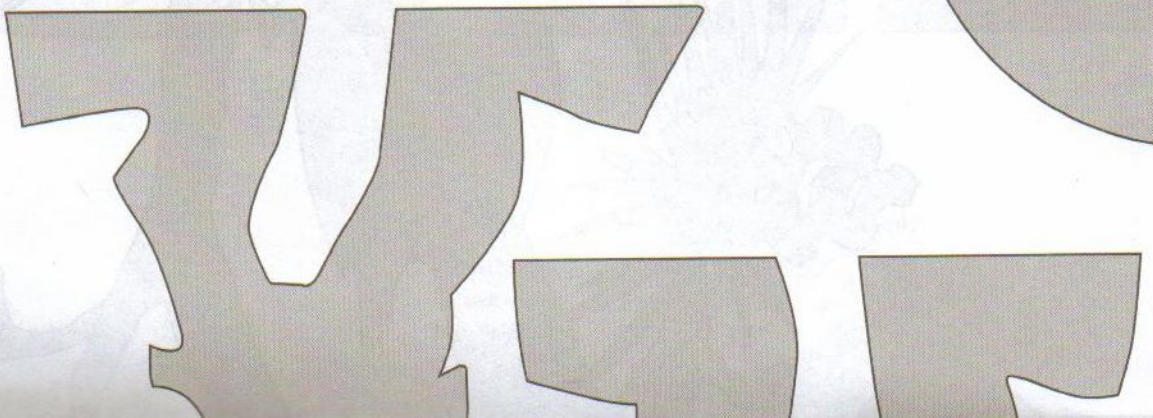


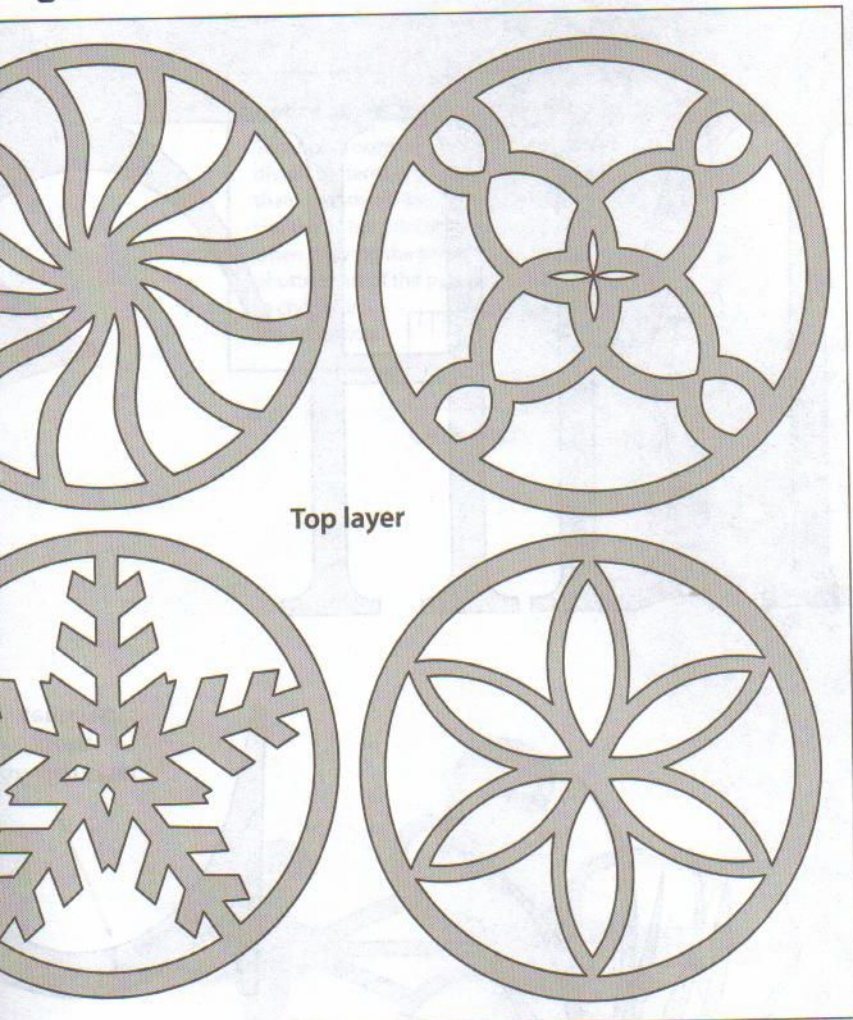


Bottom layer

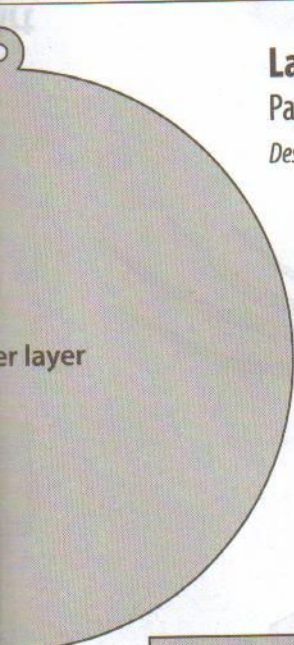


Cent





Top layer

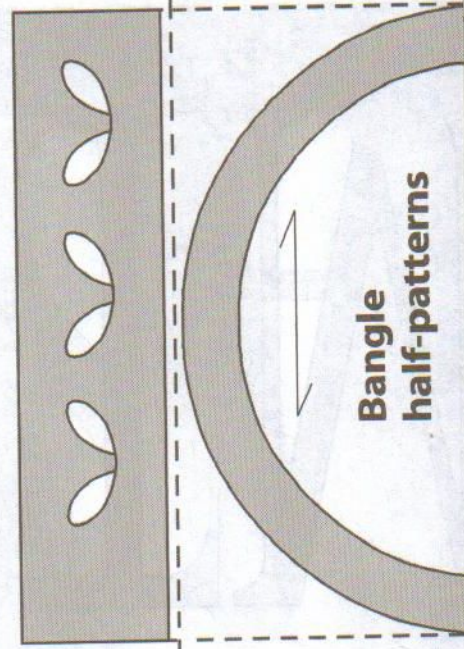


er layer

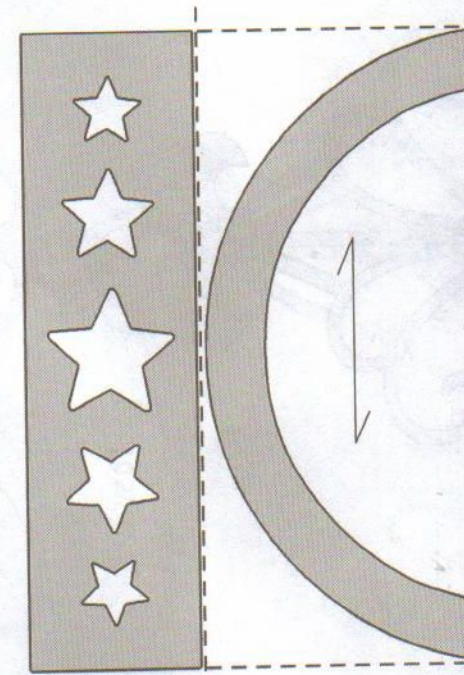
Layered Ornaments

Page 40 - SSWC Issue 61

Designer: Dan Wilckens



Bangle half-patterns

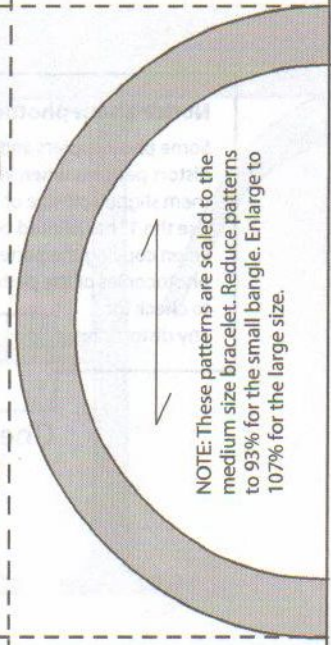
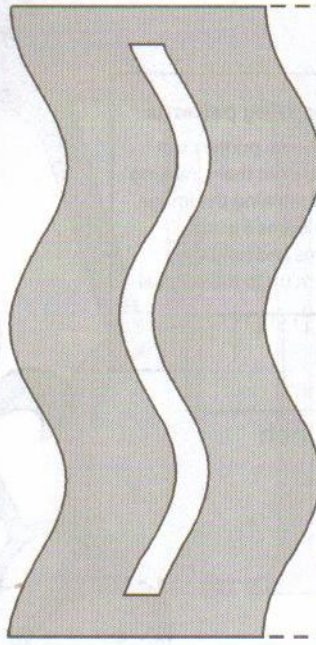
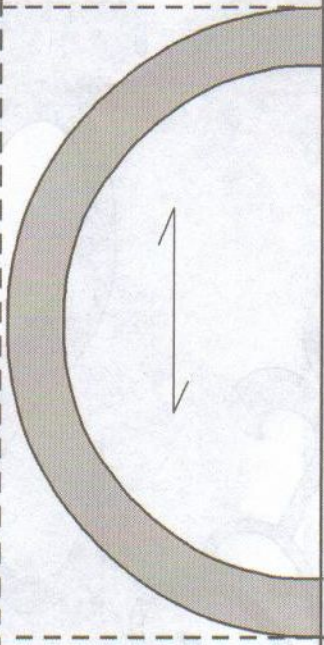
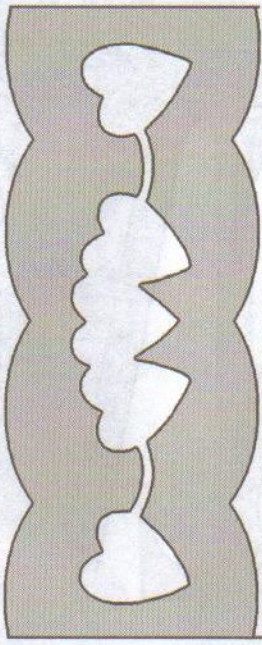


Transform Blocks Into Bangles

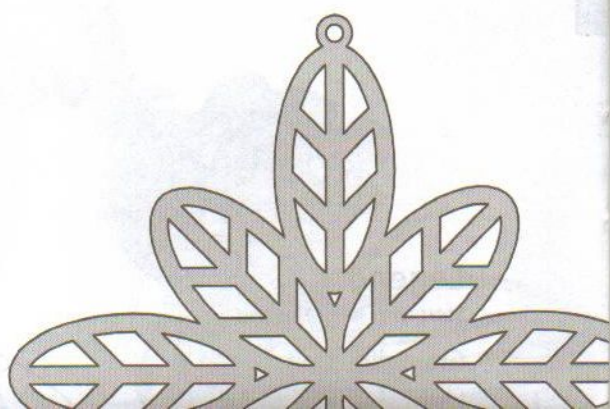
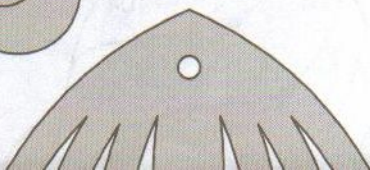
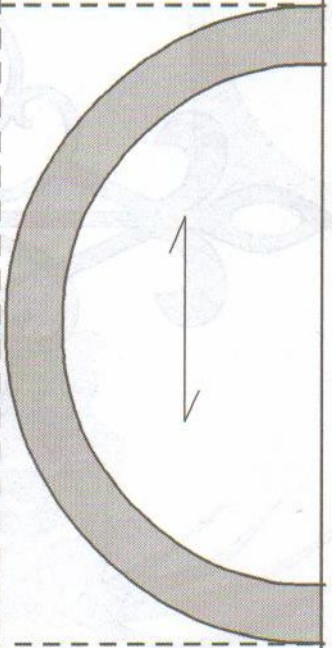
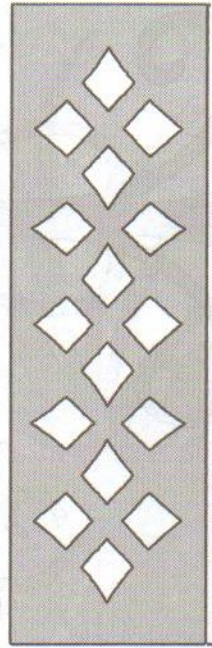
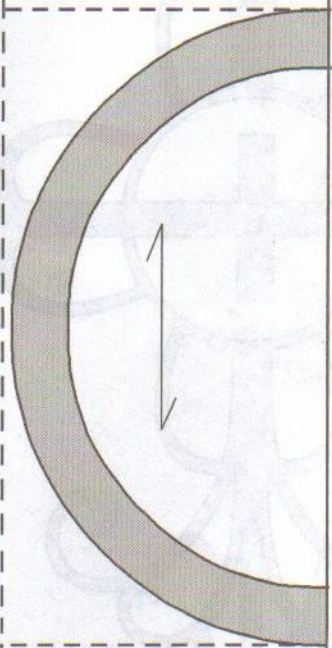
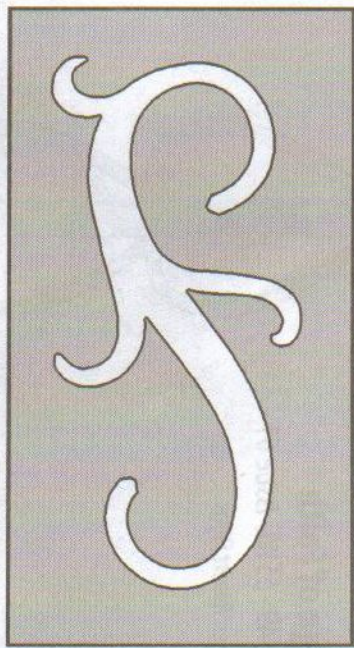
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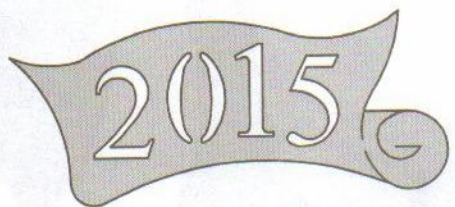
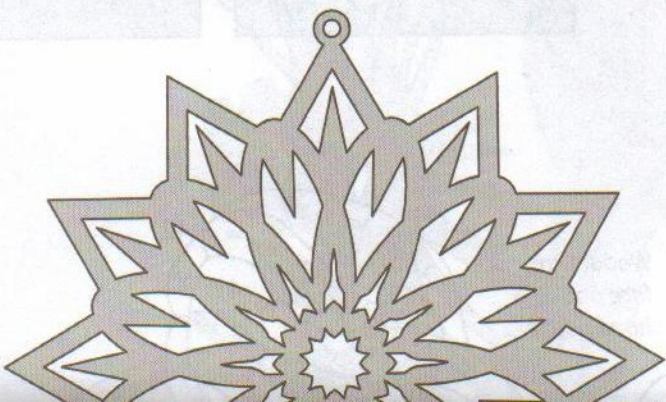
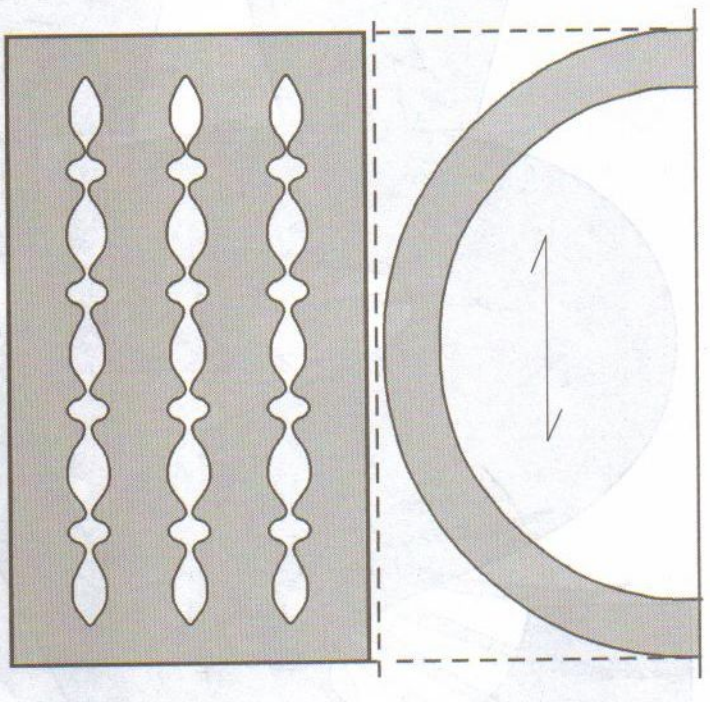
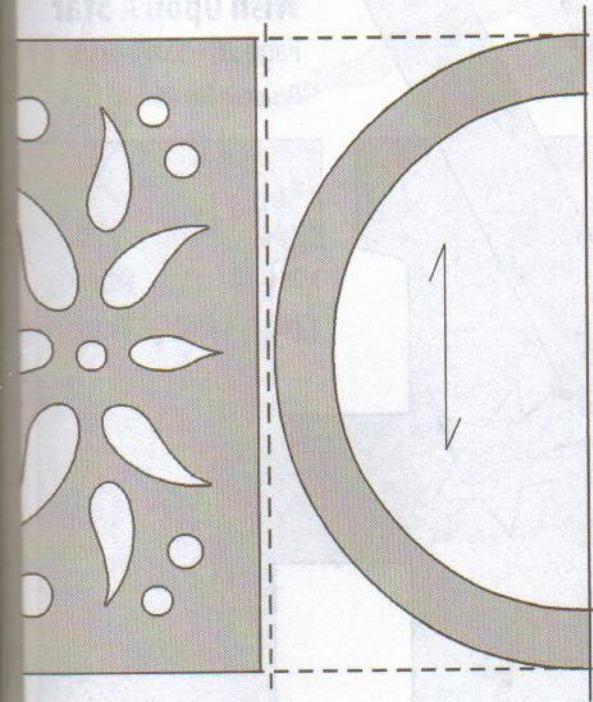
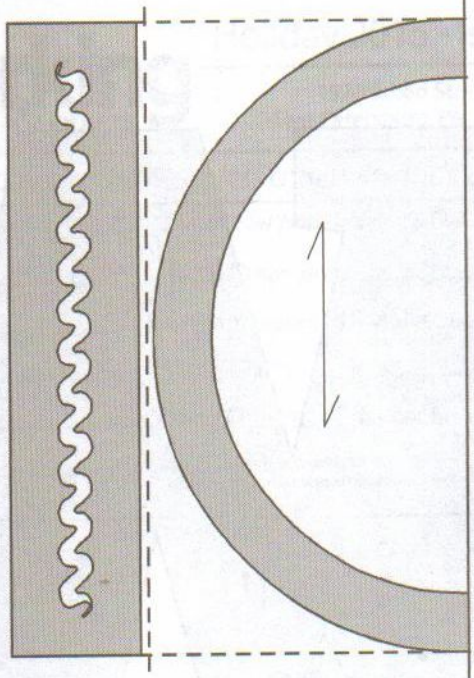
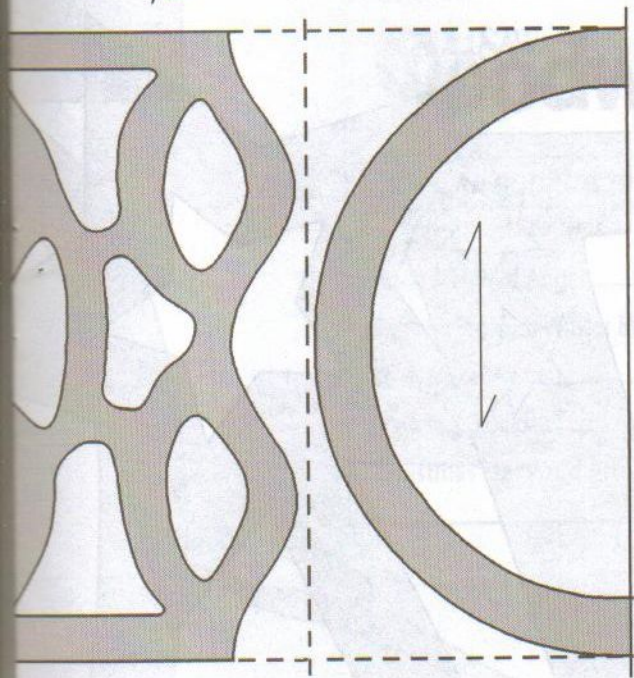
Designer: Sue Mey

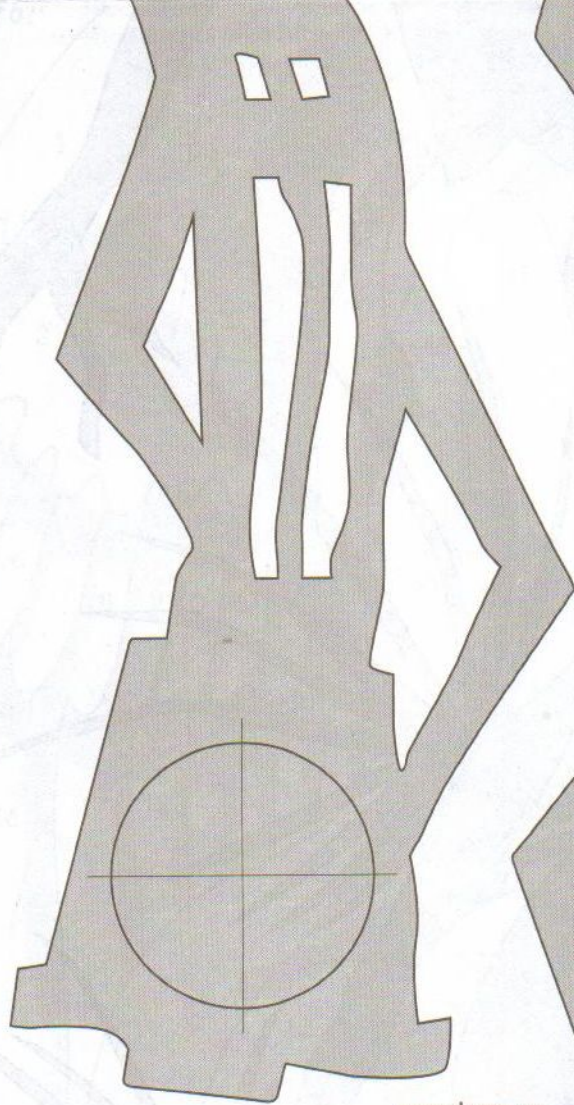




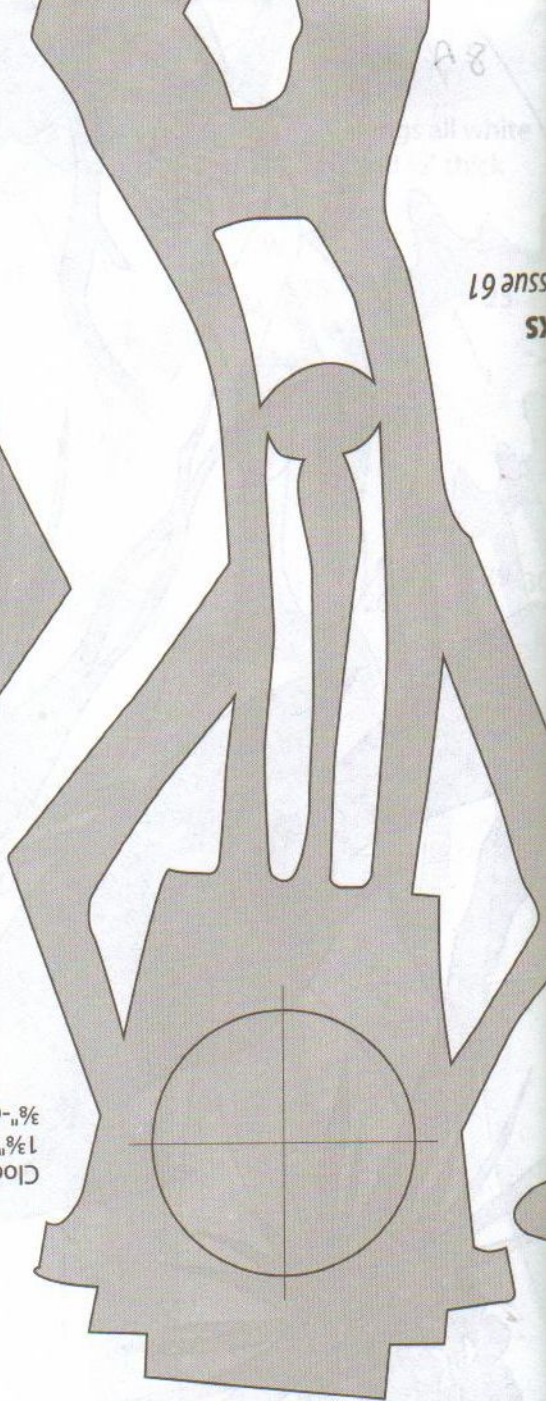
NOTE: These patterns are scaled to the medium size bracelet. Reduce patterns to 93% for the small bangle. Enlarge to 107% for the large size.





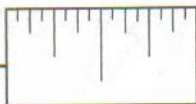


Clock faces:
1 3/8"-diameter,
3/8"-deep hole



Notice about photocopying patterns

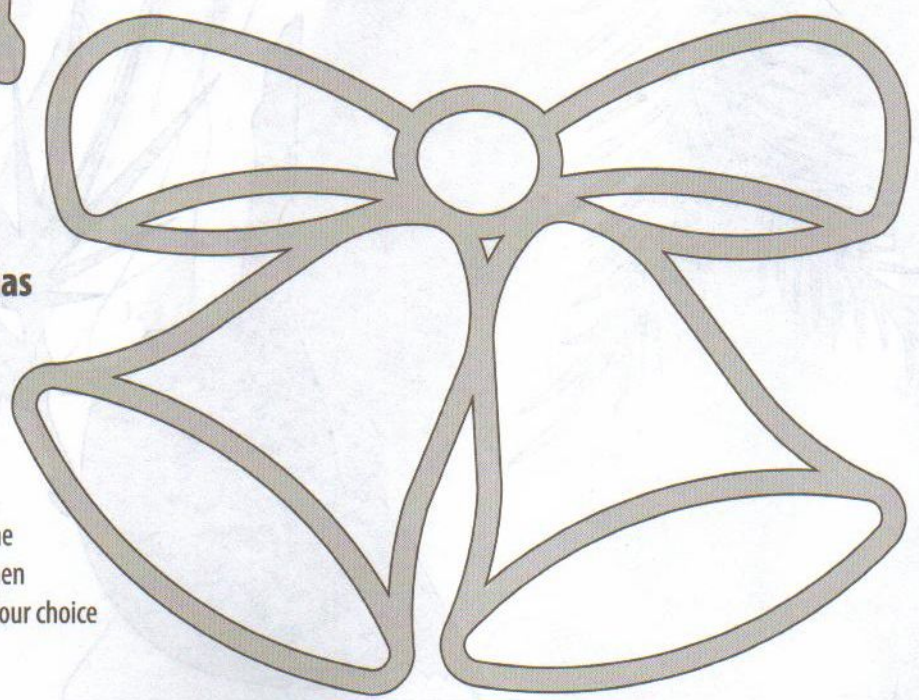
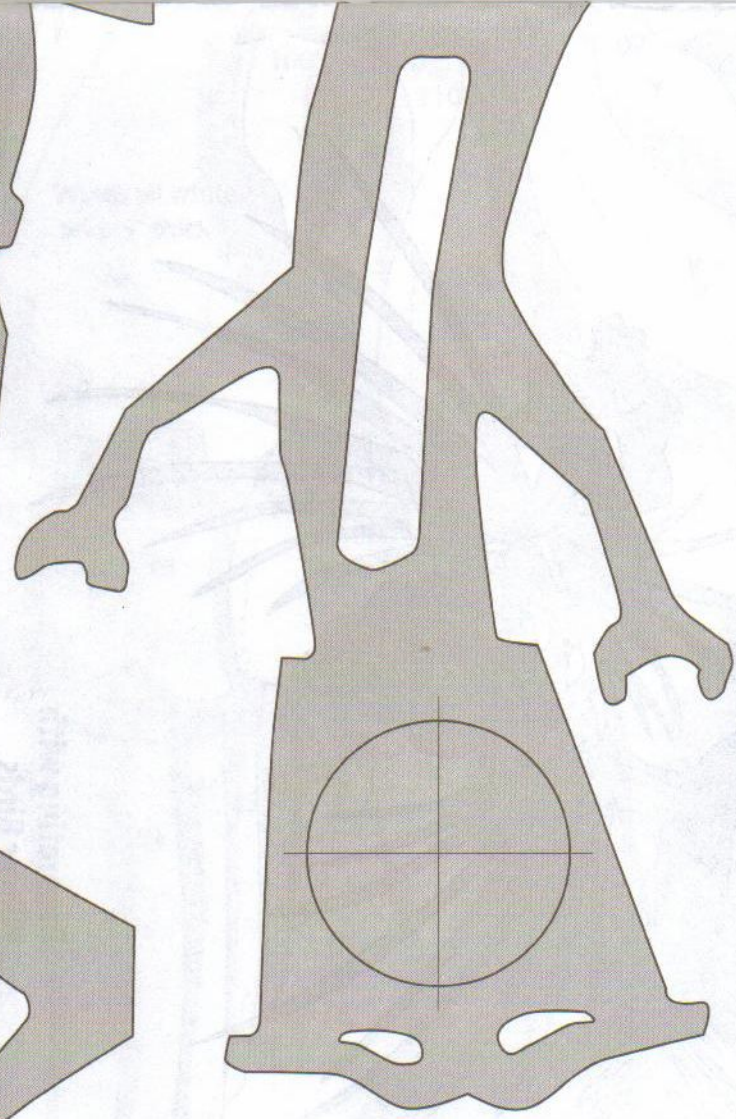
Some photocopiers and home printers can distort patterns when you print them, making them slightly off-size or stretching the image. Use the 1" bar printed below as a guide when copying the patterns and hold the photocopies of the pattern up to the original to check for any distortion.



One inch

LB

Dancing
Page 36 - 55
Designer: Jay Fo



Quilling Christmas Ornaments

Page 55

SSWC Issue 61

Designer: Bob Crane

Note: Refer to the photo on page 55 and the chart on page 57, and then complete the bell with your choice of colors and shapes.

BONUS PATTERNS

Christmas

Designer: Dan Wil

