WOOD NEWS

NUMBER 3 DEVOTED TO THE WOODWORKER AND HIS CRAFT APR.-MAY 1978

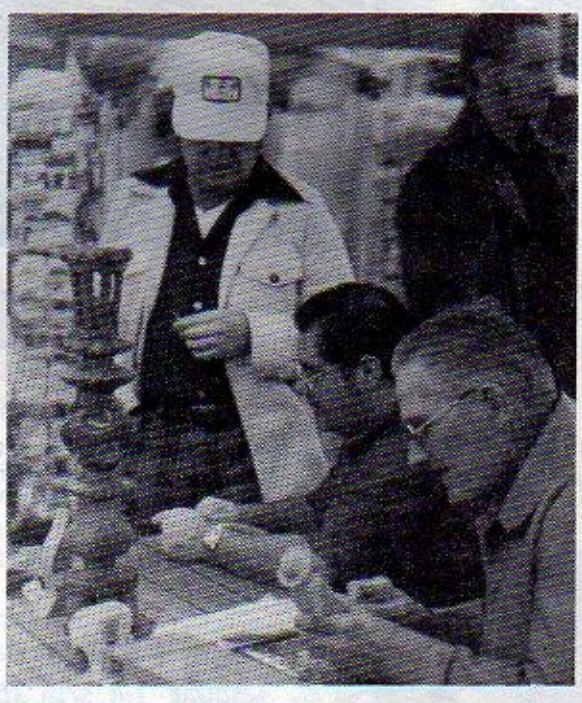
WELCOME TO THE HOME SHOW

Wednesday through Sunday, April 19-23, we will demonstrate unique power woodworking tools at the 3rd Annual Atlanta Home and Garden Show, being held at the Atlanta Civic Center.

You are invited to visit us at Booth #506 to see Norv Wehrheim, World Champion Wood Turner demonstrating 5 unique power tools in Shopsmith's half hour color movie, SAWDUST THERAPY.

Samples of 100 different species of hardwood lumber will be on display, as well as a number of exciting new woodworking accessories.

PLAN NOW TO BRING THE FAMILY AND SEE US AT THE ATLANTA HOME SHOW!



ATLANTA WOODCARVERS gathered at King Hardware Feb. 18. More pictures on pages 6 & 7.

LEASING NOW AVAILABLE

COMPLETE POWER WOODWORKING SHOP RENTS FOR $1.70 A DAY. SEE PAGE 2.

ZONING FOR NEW WAREHOUSE APPROVED

On March 17, the City of Atlanta's Zoning Variance Board approved our request to re-zone the rear of our lot at 1837 Piedmont Road to permit construction of our new warehouse.

Installation of the 3000 sq. ft. prefabricated metal structure will begin soon.

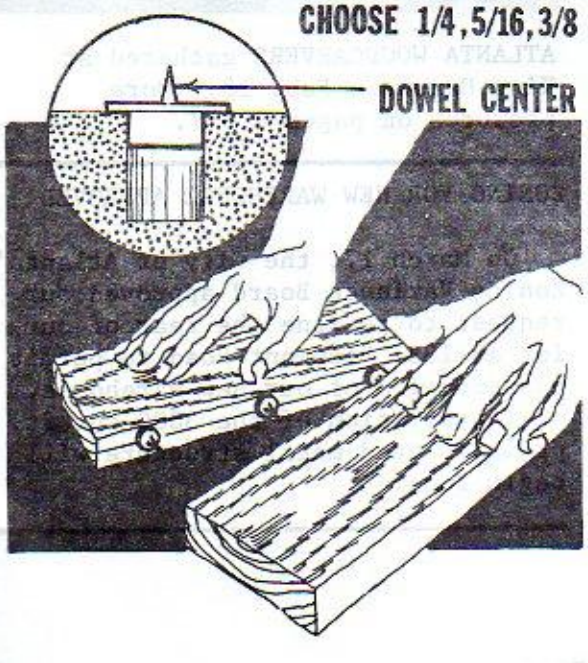
HAND SCREW CLAMPS

8" OPENING 9.95
10" OPENING 10.95

DOWEL CENTER SET

LOCATE MATCHING HOLES FOR AN EDGE DOWEL JOINT

SET OF 4 FOR 99¢
CHOOSE 1/4,5/16,3/8



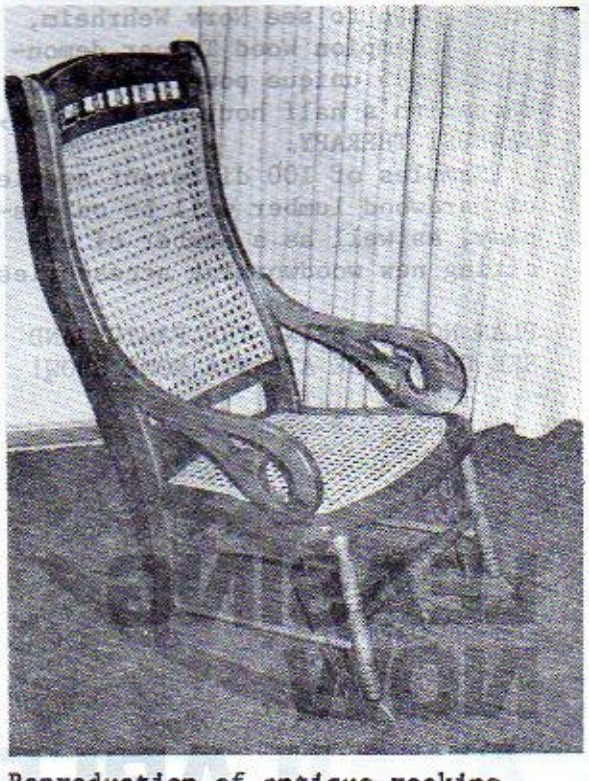
LEASING contd. from p. 1

We are happy to announce that it is now possible for commercial businesses, large and small, to LEASE a Shopsmith Mark V Woodworking System for as low as $1.70 per actual working day, or $37.50 per month, based on our new 36 Month Leasing Plan.

If your business could benefit from immediate access to a complete set of commercial duty power woodworking equipment, we can now help you do so in a way that conserves your working capital and provides a complete tax write-off.

Option to purchase at end of lease is also offered.

For complete details, ASK FOR OUR FREE BROCHURE ON LEASING POWER EQUIPMENT.



Reproduction of antique rocking chair made with the Shopsmith using hard maple and wormy red maple. Submitted by H. R. Hunt, Jr., 2191 Medfield Tr. NE, Atlanta 30345.

Send YOUR project photos to WOOD NEWS.

A SIMPLE SYSTEM FOR SUCCESS IN WOODWORKING

The Shopsmith Woodworking System.

A proven multi-use woodworking machine capable of performing as five of the most important power tools needed in the workshop: table saw, disc sander, boring machine, drill press, and lathe.

It's a simple yet systematic approach to woodworking excellence. Not just five tools in one, but *the one tool you need* to achieve professional results with minimum skill and experience.

Look. In less than a minute you can change from one tool to another:

1 as a 10" table saw with 3-1/4" depth of cut and 48" rip capacity for ripping, crosscutting, mitering, beveling, molding, tenoning, grooving, rabbeting and dadoing. Variable speed permits reduction of sawing speed for power sawing of hardwood—a Mark V exclusive.

Build your own furniture. Do home repairs and remodeling.

So simple to operate that within a very short time you'll be using your Mark V to build your own furniture and cabinets, make gifts, and do home repairs and remodeling. Projects you probably now pay someone else to do.

2 a big 16-1/2" swing capacity for spindle and taper turning or metal spinning. Will handle workpiece up to 34" in length. Exclusive speed dial permits speed changes without turning off motor.

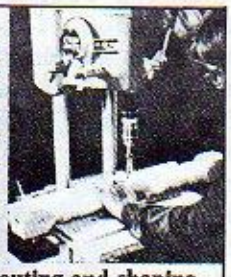
Shopsmith fits your budget, your needs, your space, and your skill level.

- **economical**—costs less than you'd pay for a good quality table saw and drill press.
- **versatile**—exclusive features make possible unique setups for faster and accurate woodworking. Setups you can't duplicate even with a shop full of expensive commercial tools.
- **compact**—takes less space than it takes to store a bicycle (12 sq. ft.). You don't need a big workshop to have big workshop capability and precision.
- **easy to use**—beginner, week-end handyman, woodworking pro, the Mark V makes you look good . . . the skill and accuracy are built in the machine. All you do is flip the switch and guide the materials.

3 for sanding operations not possible on other sanders — like finishing edges to precise dimensions and sanding duplicate pieces to exact lengths. Use for bevel and angle sanding, jointing, dowel pointing.

Why pay for 5 tools, 5 motors, 5 spindles, 5 tables, and 5 benches?

The Shopsmith Mark V performs as five woodworking tools from a single power source: a powerful 13.5 amp motor develops 2 h.p. - enough power for the toughest job.



4 save time on every drilling operation with depth control dial, ready made jigs, and the right speed for every operation without belt changing. Use for drilling, mortising, routing and shaping.

More machine than you need?

If you're a beginner, maybe. But, following Shopsmith's simple system, you'll soon be doing things with wood you thought only pro's could do. The professional touches that separate the beginner from the craftsman. You can do it with Shopsmith. More than 300,000 satisfied Shopsmith Owners are the proof. Why not find out more?

5 perfect doweling in horizontal boring operations. Exclusive feed stop assures all holes will be exactly the same depth. Rack and pinion table for hairline settings.

TELL ME MORE!

To send for more information on Shopsmith's Simple System for Success in Woodworking,

mail your name and address to:

KING HARDWARE
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SHOP SMITH Shopsmith

WORLD'S STANDARD IN WOODWORKING EQUIPMENT

WOOD JOINERY

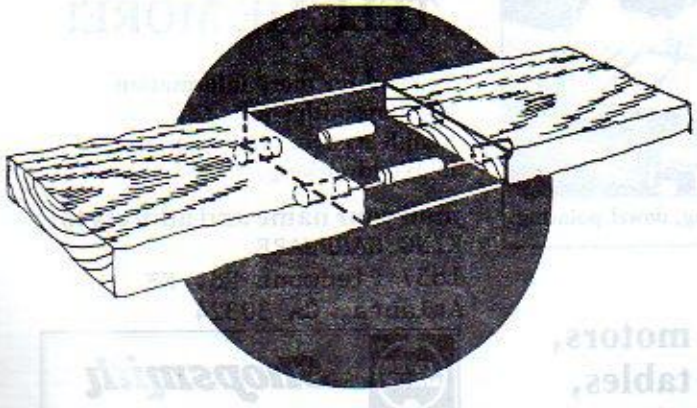
by Leon Colwell

In the second issue of Wood News we discussed different kinds of woods and some of the characteristics of each. One does not need an expert's knowledge of wood, but does need to experiment and read about woods as he continues to build projects. To build furniture and other objects with wood, it is necessary to acquire some knowledge of the types of joints used. Many beginners have little knowledge of the various types of joints used in furniture construction.

Joints are used primarily to give strength and stability to the project and secondarily to hide end grain so as to enhance the beauty of the project. Glues are generally used with the joints to add further strength and stability.

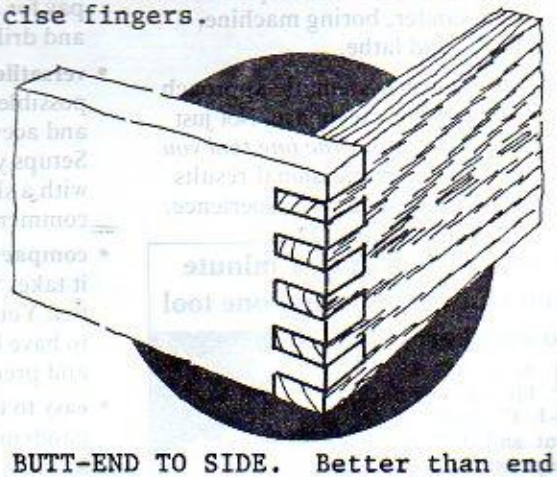
Among the most commonly used joints are butt, mitered, dowelled, mortise and tenon, dovetail, tongue and groove, and plain edge. There are variations of each of these joints. Listed below are illustrations of some of the joints and a brief explanation of their uses:

A. BUTT JOINT-END TO END. Should have mechanical support unless otherwise held. Joint is extremely weak without additional support. End grain does not glue very well. Dowelling would strengthen this joint considerably.

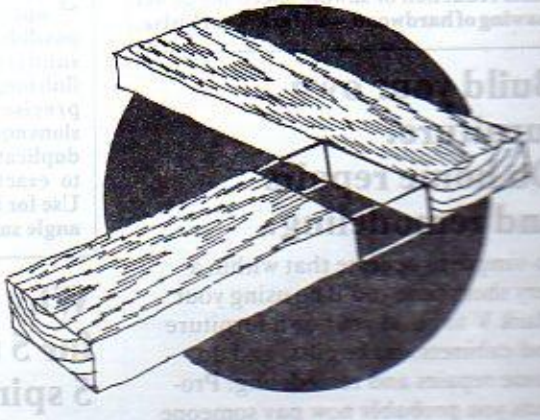


B. SCARF JOINT. A simple method of mending or joining boards. Stronger than a butt joint as it reduces the amount of end grain to be glued. It can be strengthened by inserting screws in the flat sides of the boards through the two pieces.

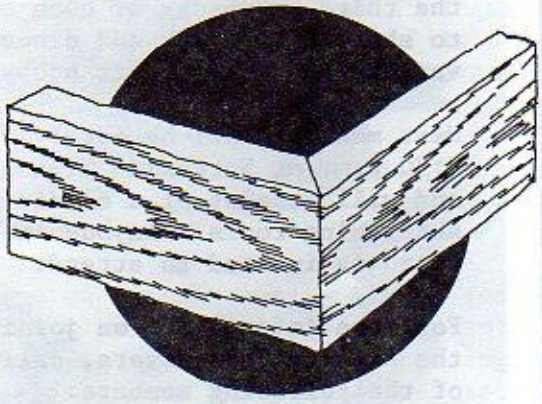
C. SERRATE or FINGER. A complicated method of joining two boards. Used mostly in mills where mechanical equipment is available to cut precise fingers.



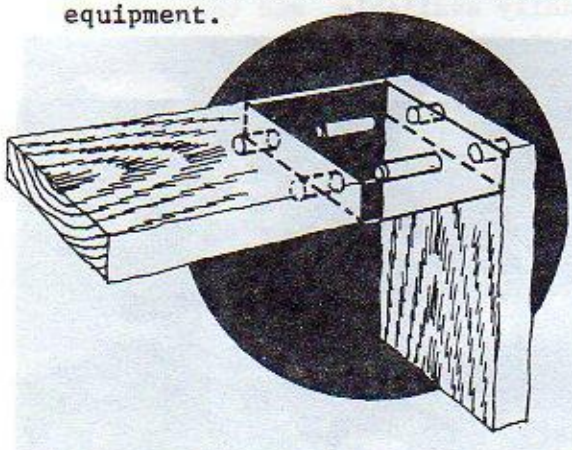
D. BUTT-END TO SIDE. Better than end to end butt joints but a poor method in furniture construction. Also needs additional mechanical support as screws or dowels.



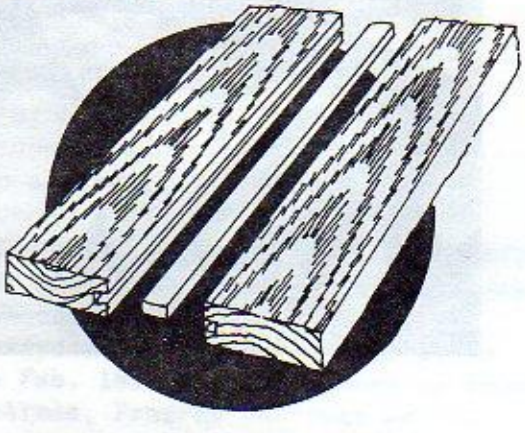
E. MITER JOINT. A good method to hide end grain. Not in itself a strong joint, but can be mechanically supported in various ways.



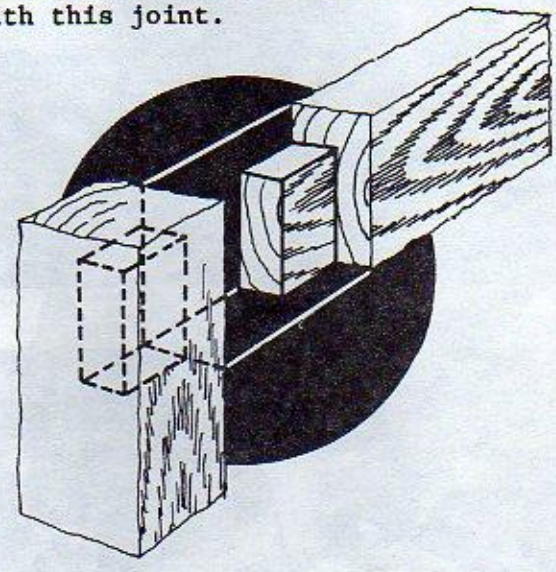
F. DOWEL JOINT. A good reinforcement of joints, it is difficult to align holes for dowel pins without a dowelling jig or a drill press, such as is demonstrated with Shopsmith equipment.



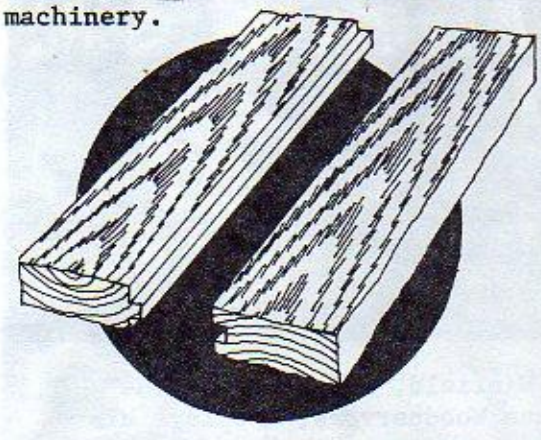
G. SPLINED JOINT. Similar to tongue and groove. Kerfs are sawed into the edges of boards and a suitably dimensioned spline is inserted into the kerfs or grooves.



H. MORTISE AND TENON. An excellent way to join wood. It is strong and durable if properly done. Mortises can be cut by hand with a chisel, or faster and better with a mortising attachment to a drill press. Tenons can be cut by hand or more accurately cut using a table saw or radial arm saw. Glue and/or wood screws, as well as dowels, are often used with this joint.



I. TONGUE AND GROOVE. Used most on wall panelling. The operation is usually performed by special machinery.



(contd. p.11)

WOOD NEWS
KING HARDWARE
1837 Piedmont Rd. NE
Atlanta GA. 30324

(404) 875-SHOP

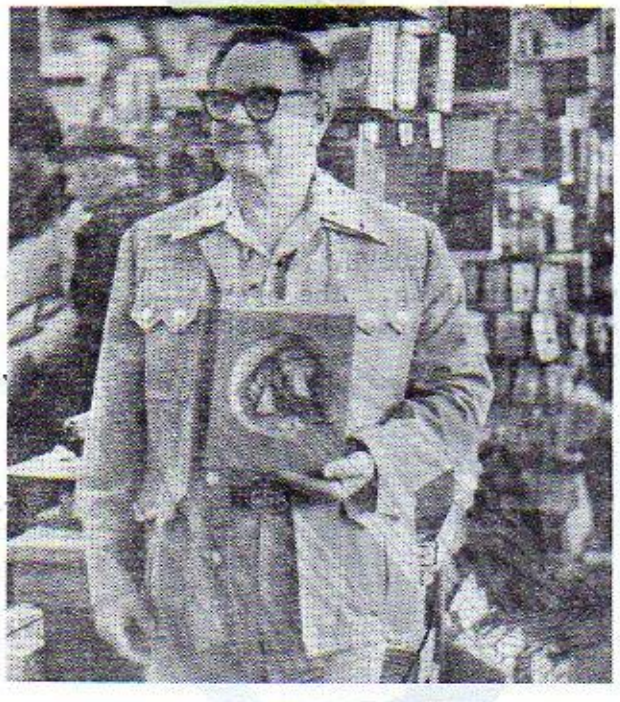
Editor, Artworker
Sue Stewart
Contributions
Chris Bagby
Leon Caldwell
Robert King

THE ATLANTA WOODCARVERS comprise a cross-section of adults ranging from beginning whittlers to professional woodcarvers, who meet the third Wednesday of each month to share their work and discuss various phases of their hobby.

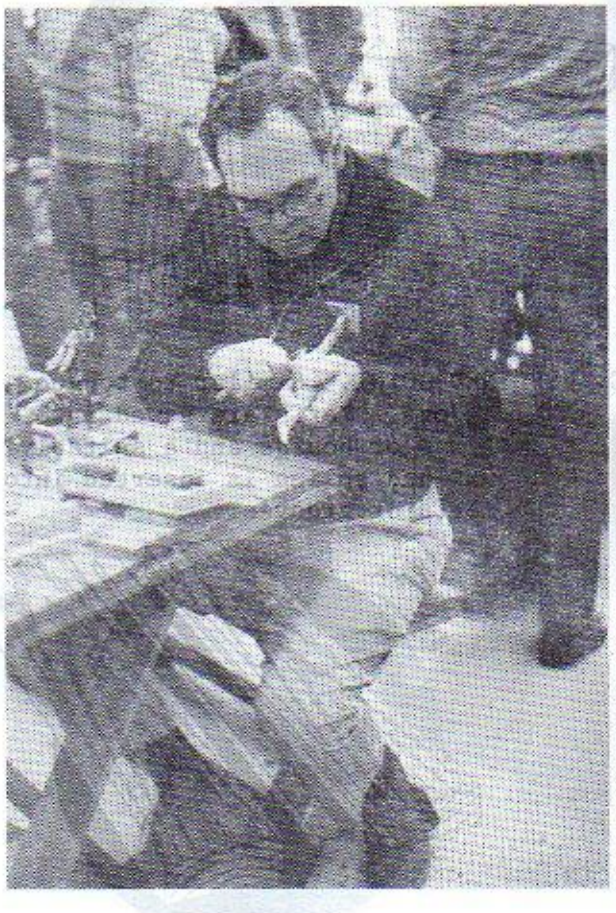
Next meeting will be April 19 at 7:30 p.m. at Northside High School and will consist of a clinic on sharpening tools. Anyone interested is invited to attend.

For more information on joining the Atlanta Woodcarvers, call one of the following members:

Nedra Palmer	634-7882
Jack Winfield	255-2371
Chan Allen	366-1105

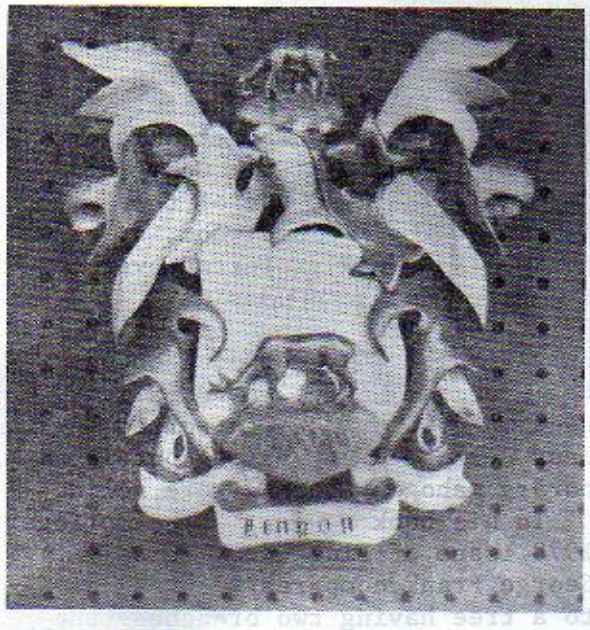


Jack Winfield, President of the Atlanta Woodcarvers, displays his self portrait.



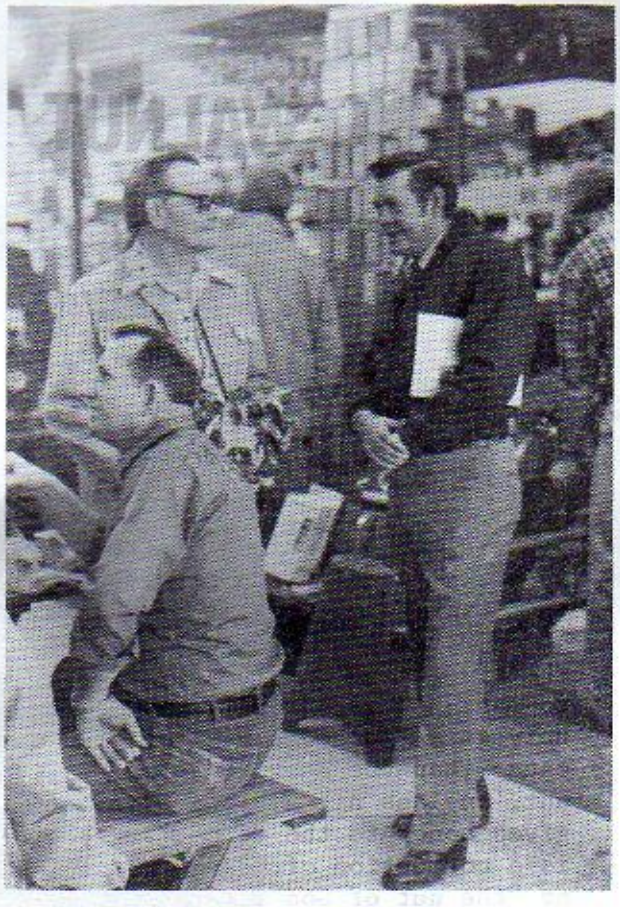
Robert S. Norman adds finishing touches to a pelican.

Eagle carved by Chan Allen.

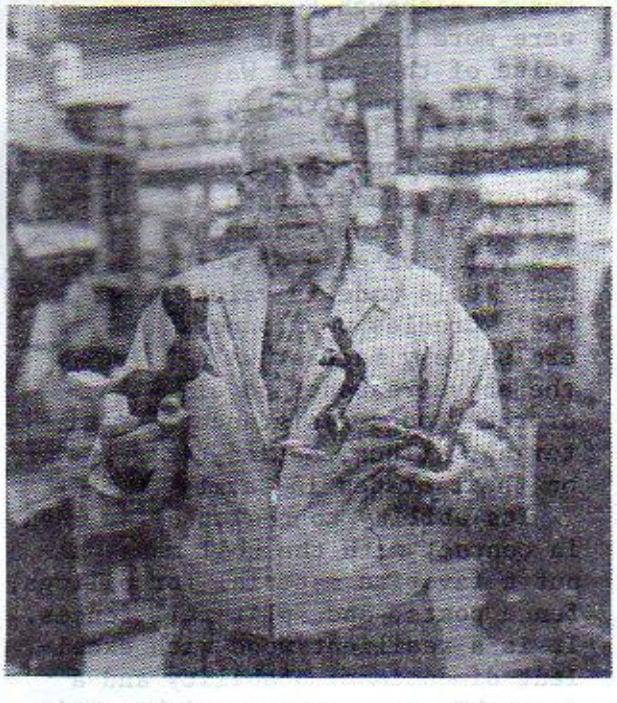


Coat of arms by Jack Winfield.

OUR THANKS TO THE ATLANTA WOODCARVERS for providing a delightful day-long demonstration of woodcarving to hundreds of visitors at our store on Feb. 18. Special thanks to Paco DeArmas, Program Chairman of the Woodcarvers, for initiating and organizing this event.



Carvers and customers carried on for six hours about woodcarving.



Howard Gilliam and his carved conversation pieces.

BLACK WALNUT NOTES

by Robert King

There are many kinds of trees whose characteristics have caused woodworkers to regard them highly. When judged both on the beauty of their wood and their usefulness to to man, however, few are more universally esteemed with better cause than the American black walnut, Juglans nigra. The name itself gives honor to the tree--"Juglans" is a corruption of "Jovis glans", or "the nut of God".

J. nigra is a native of the United States east of the Mississippi. Indians sometimes fished by poisoning the water with walnut husks, although European settlers were more interested in the cash value of the wood. Walnut was exported from Virginia to England as early as 1610. In the remote low-technology conditions of the colonies, the strength and durability of walnut, combined with its relative ease of working with hand tools made it valuable at home too. Cradles were once almost exclusively made of walnut, for the above reasons and also because of the wood's resistance to splintering. (Thus, babies could chew on their crades in safety.)

Its ability to resist decay when in contact with the soil made walnut a favorite material for pilings, fence posts, and split-rail fences. It is a resilient wood with excellent dimensional stability and a favorable strength-to-weight ratio. Walnut gunstocks transmit less jar on recoil and do not warp or shrink. Since the wood readily takes an oil finish, no matter how long such a gunstock is carried in the hand, it will never irritate the palm. Many millions of board feet of walnut have been used for crossties, and many million more have been cut, piled, and burned in land clearing operations.

During World War II, troops of Boy Scouts were organized to hunt for suitable walnut trees, and it was one's patriotic duty to surrender the finest ones to the war effort. Not only was walnut in great demand for gunstocks, it was the best material for high quality airplane propellers. Mahogany, an acceptable substitute, was not so readily available, and the only other suitable wood was quarter-sawn white oak, although birch and cherry were used for training.

Walnut is also a beautiful wood for furniture and cabinetmaking. In the early and middle Georgian period, walnut was one of the predominating cabinet wood, J. nigra being much preferred over its paler European cousins. Relatively few walnut pieces survive from this period because the precious walnut was usually used as a veneer over a softer and less durable core, while contemporary mahogany pieces were solid.

In his book review in the Spring 1978 issue of Fine Woodworking, George Frank compares woodworking to a tree having two branches--the "industrial production" branch and "fine craftsman" branch. During the "Age of Walnut" (circa 1830-1880) the "industrial production" branch prospered. Thousands of solid walnut pieces were churned out by assembly line operations, pieces with indifferent styling assembled with a minimum of craftsmanship.

(contd. p.9)

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DREMEL
VARIABLE SPEED
MOTO-TOOL.

- Drills, carves, saws, shapes, routs, sands.
- Cuts in any direction in any kind of wood.
- Goes through knots and imperfections as easily as clear wood.
- Dial fast speeds for working in hard woods, slow speeds for soft woods.

Model 381
Variable-Speed
Moto-Tool Kit

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Consists of Moto-Tool 381 with built-in fingertip speed control, 34 accessories and storage case. 5 other kits available.

WALNUT

The walnut supply was seriously diminished by the turn of the century. Since walnut lasts very well in contact with the soil, furniture makers were able to utilize the seasoned, beautifully grained stump wood of trees sawn many years before. For fifty years articles appeared bemoaning the disappearance of the black walnut. The authors did not realize, however, that quietly, from Massachusetts to Minnesota and south to northern Florida and Texas, doing best near the bottom of gentle slopes where the soil was rich, the water ample, and drainage adequate, more walnut trees were growing, and are growing still.

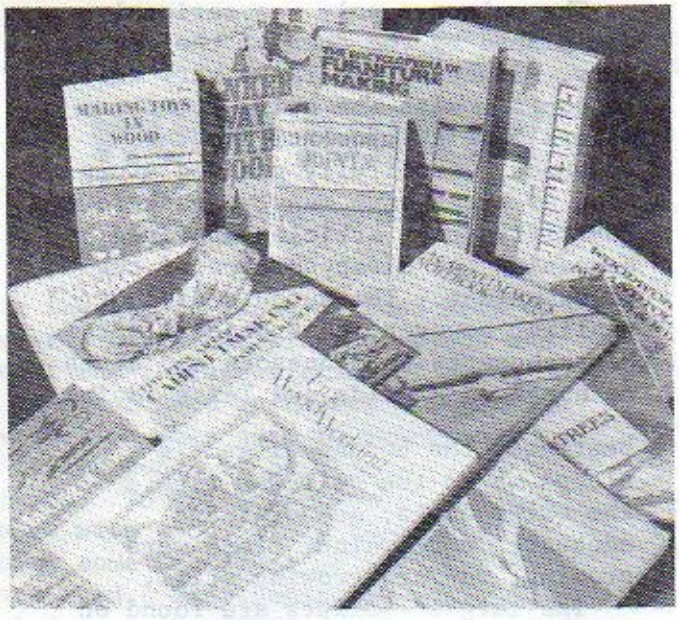
The largest walnuts are found on the western slopes of the Appalachians in North Carolina and Tennessee, reaching heights of 100 to 150 feet and diameters of 4 to 6 feet.

In California walnut orchards, English walnuts are grafted to black walnut root stock, since Juglans nigra is more hardy and resistant to disease. There are no black walnut orchards since the trees do not thrive in homogeneous stands. The only major nut crop that is not grown commercially, Black walnut processing plants are supplied by independent, part time gatherers, often families, who find extra income lying on the ground.

If you own a walnut tree, you have probably wondered about its commercial value. Though very much the exception, some trees suitable for veneer cutting have brought fantastic sums. In 1971, a 100 ft. tree sold for a record $12,600, and from it over 90,000 sq. ft. of 1/28 inch veneer was cut. For saw timber, a realistic pricing rule of thumb for North Georgia is a dollar a foot for trees at least a foot in diameter.

If you would like to grow your own black walnut lumber from scratch, plan on waiting sixty to seventy years for the trees to become big enough to harvest.

WOODWORKING BOOKS



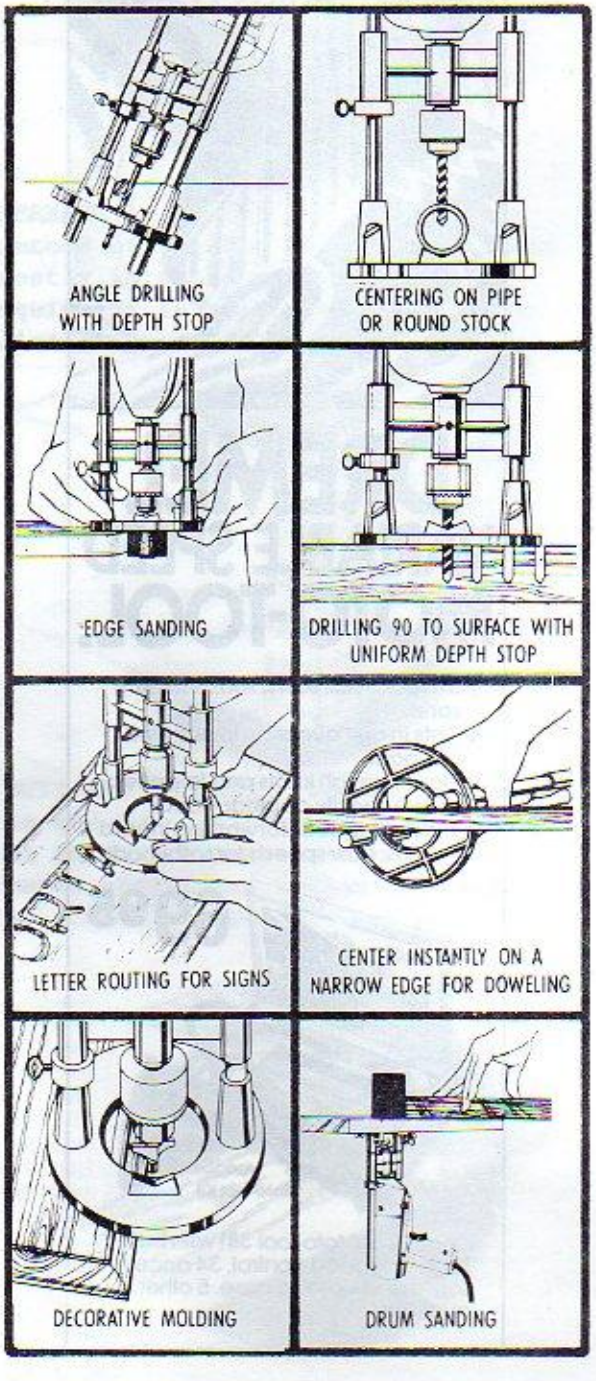
King Hardware's collection of Woodworking books continues to grow. You are invited to browse seven days a week.

WOODWORKING PLANS

Plans for woodworking projects are sometimes hard to come by. These publications contain many new plans each issue, and are available for you to choose from.

PORTALIGN®

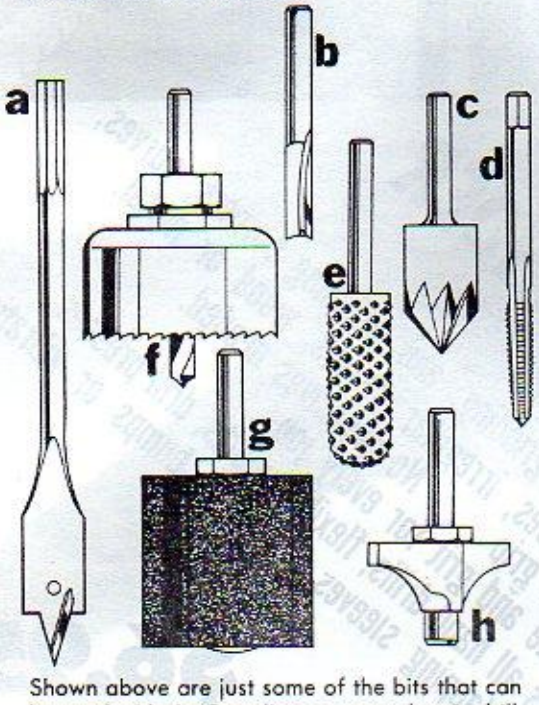
Turns your portable electric drill into a VERSATILE, PRECISION TOOL!



PORTALIGN®
PRECISION DRILL GUIDE

Add these bits...

The Portalign and your portable electric drill become a whole home workshop all rolled into one.



Shown above are just some of the bits that can be used with the Portalign on your electric drill.

A. FLAT DRILL BIT
B. ROUTER BIT
C. COUNTERSINK
D. THREAD TAP
E. WOOD RASP
F. HOLE SAW
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H. ROUTER BIT

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YOU'LL DRILL A WHOLE LOT BETTER

Attaches easily to ¼" and ⅜" drill motors

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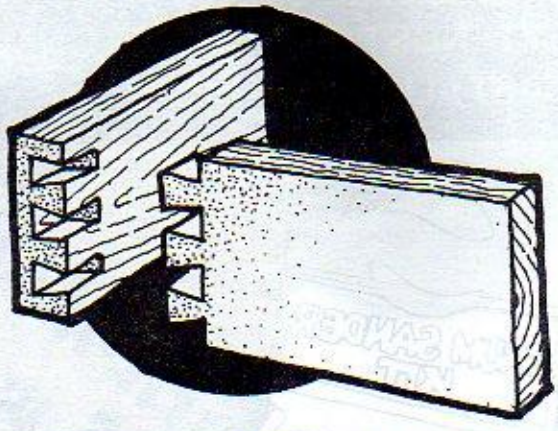
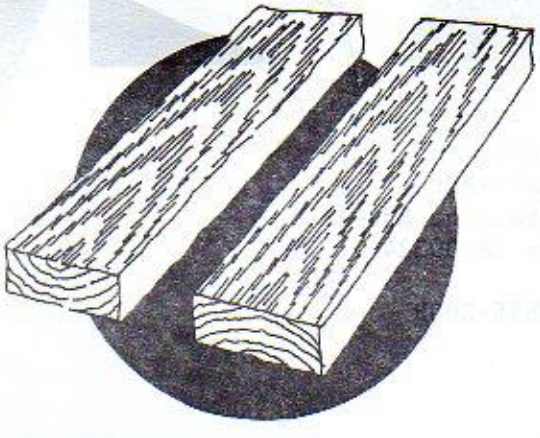
J. DOVETAIL. There are several variations of dovetail joints, as illustrated here. The most common use of dovetail joints is to join drawer sides to fronts. Some extremely attractive items such as tool boxes, jewelry boxes and chests are constructed with exposed dovetails. The wooden tool box featured in the second issue of Wood News and built by Bob Kelley was done with hand-cut dovetails.



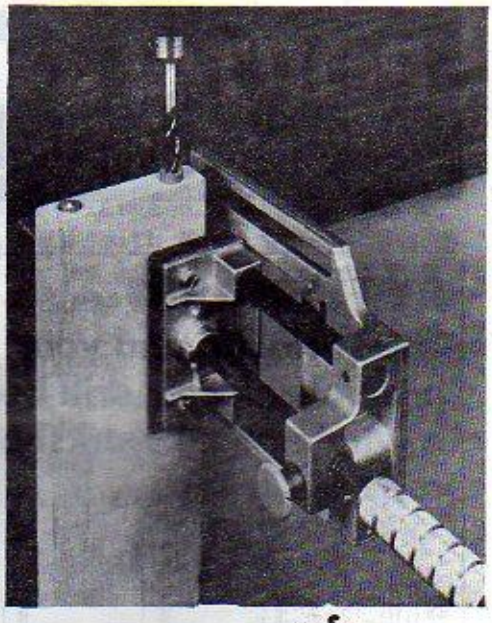
K. PLAIN EDGE. A commonly used method to join the edges of boards. The edges of the boards must be perfectly straight to eliminate tension when the boards are glued and joined. Used for table and desk tops or any place where it is necessary to attain a dimension not available in one piece of wood.



In the next issue of Wood News, we will consider the many kinds of glues and adhesives used to strengthen wood joints.

The Bench Buddy

Combination Bench & Drill Press Vise



- INSTANTANEOUS JAW SETTING
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- CAST ALUMINUM BODY

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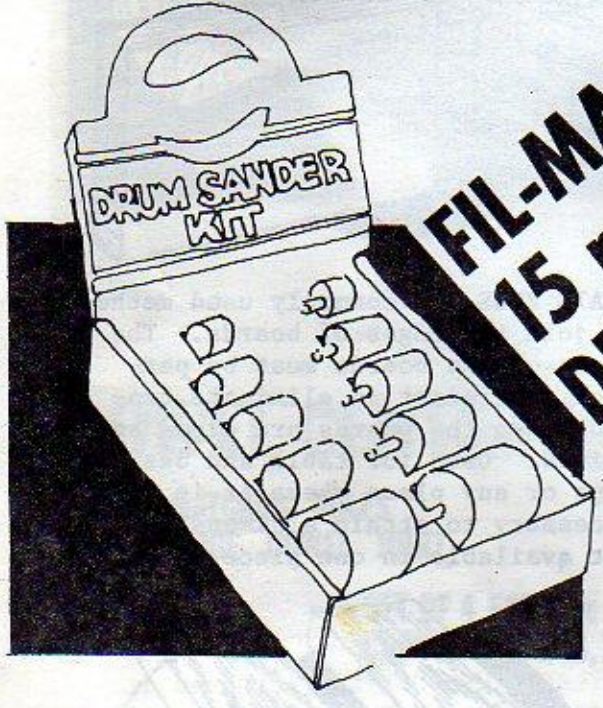

FIL-MAR 15 pc. KIT DRUM SANDER

- For sanding, grinding, and polishing corners, curves, flat surfaces, irregular shapes, wood or metal.
- Friction grip . . . No adhesives needed.
- A size and grit for every job.
- Fits all hand drills, flexible shafts, drill presses.
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