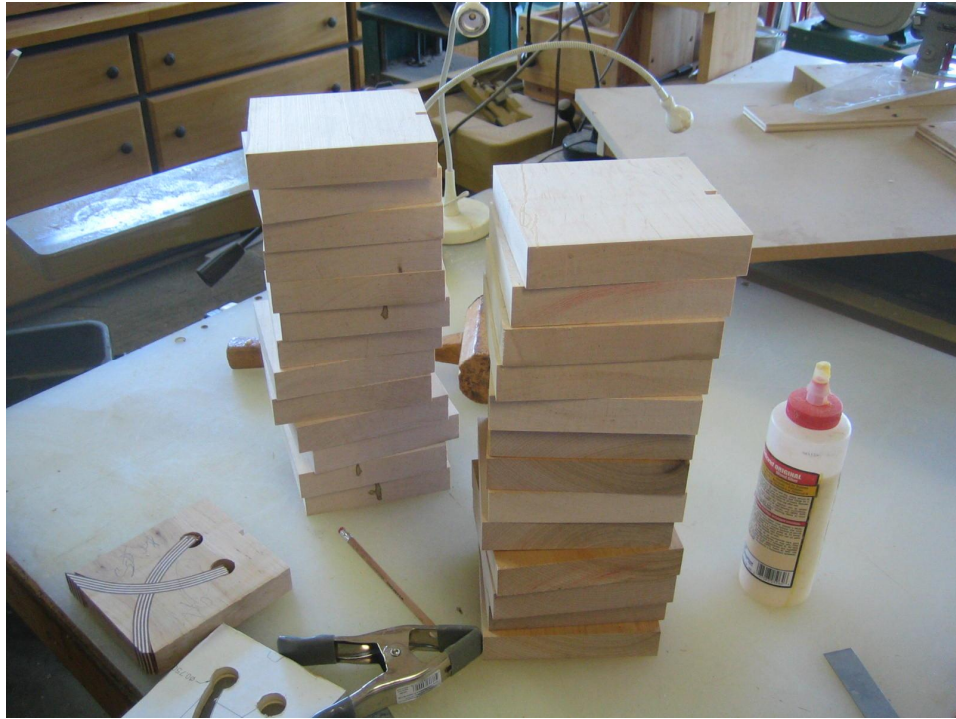


Potter My Way #2

With Gothic Arches
Procedure



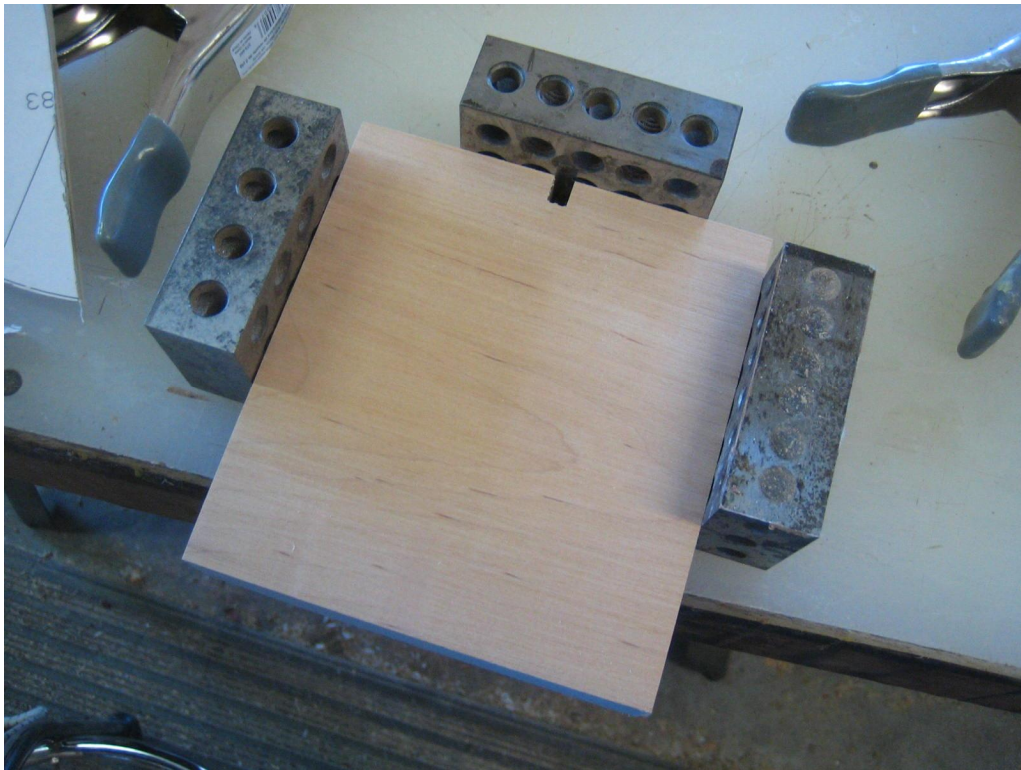
By Paul Bartlett
2016



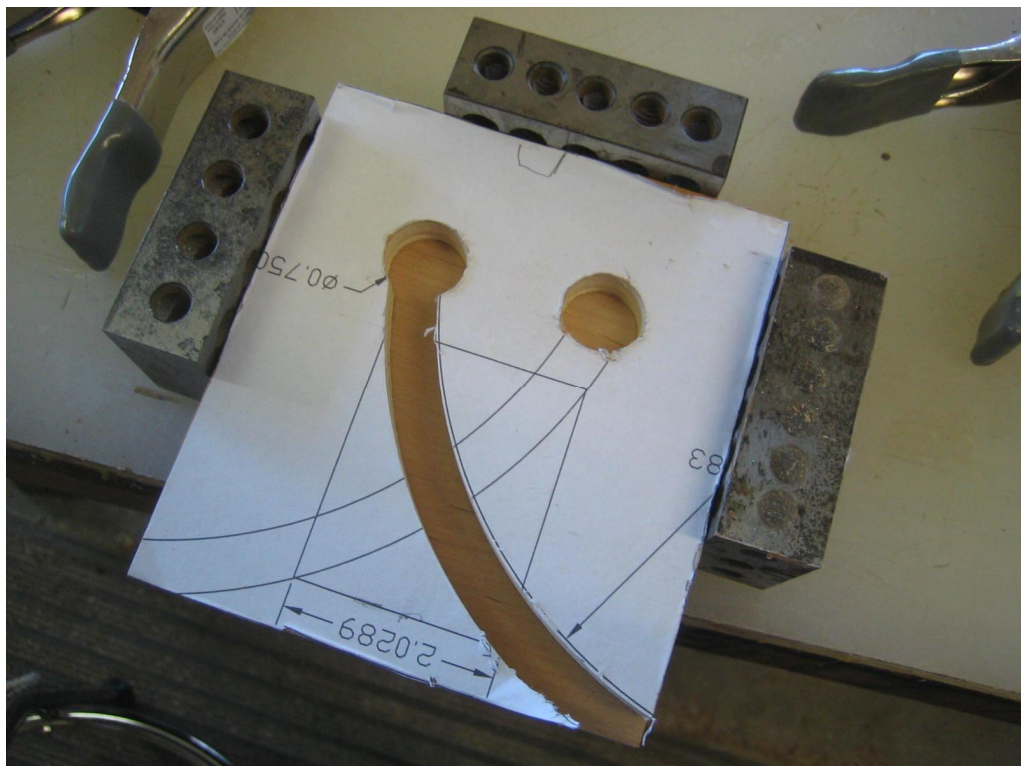
All Blocks cut to fit Fixture, Tight fit is important



This was the prototype



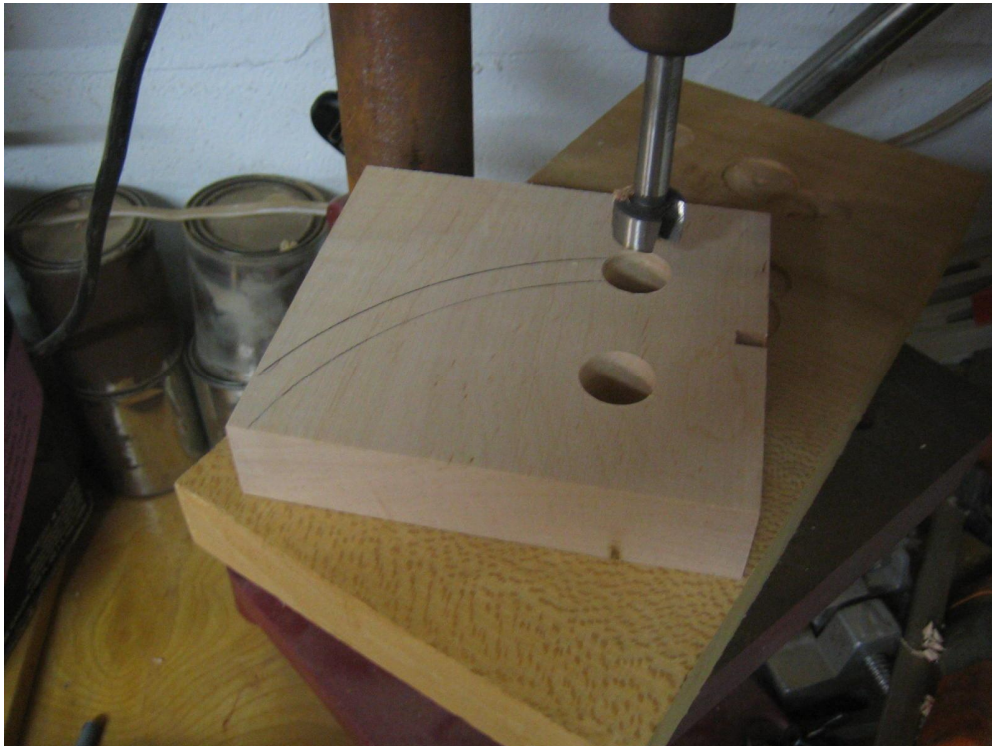
Block with edge guides



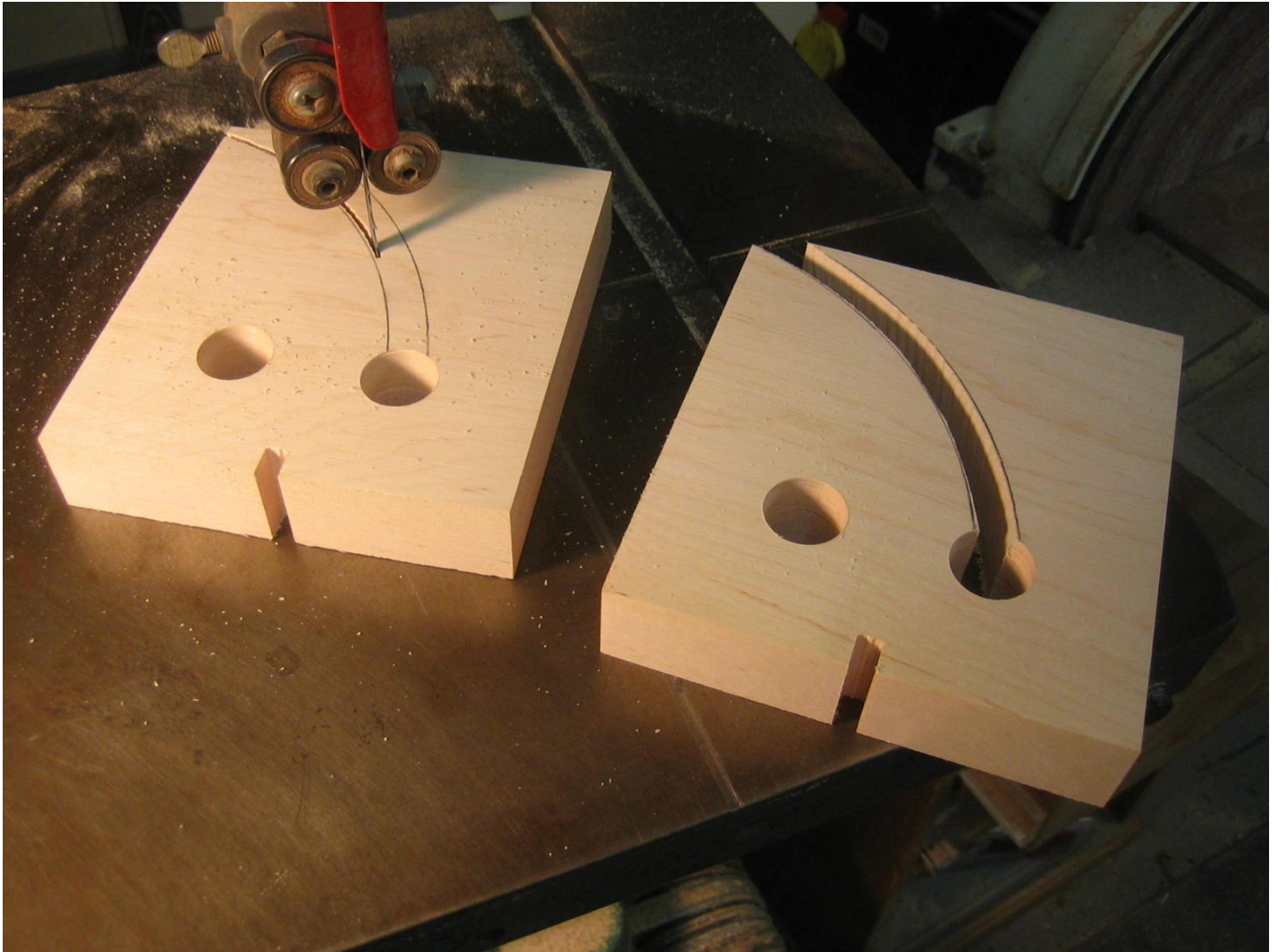
Tracing Template from 1/2" Ply using dull pencil will leave minimal material to be removed with router



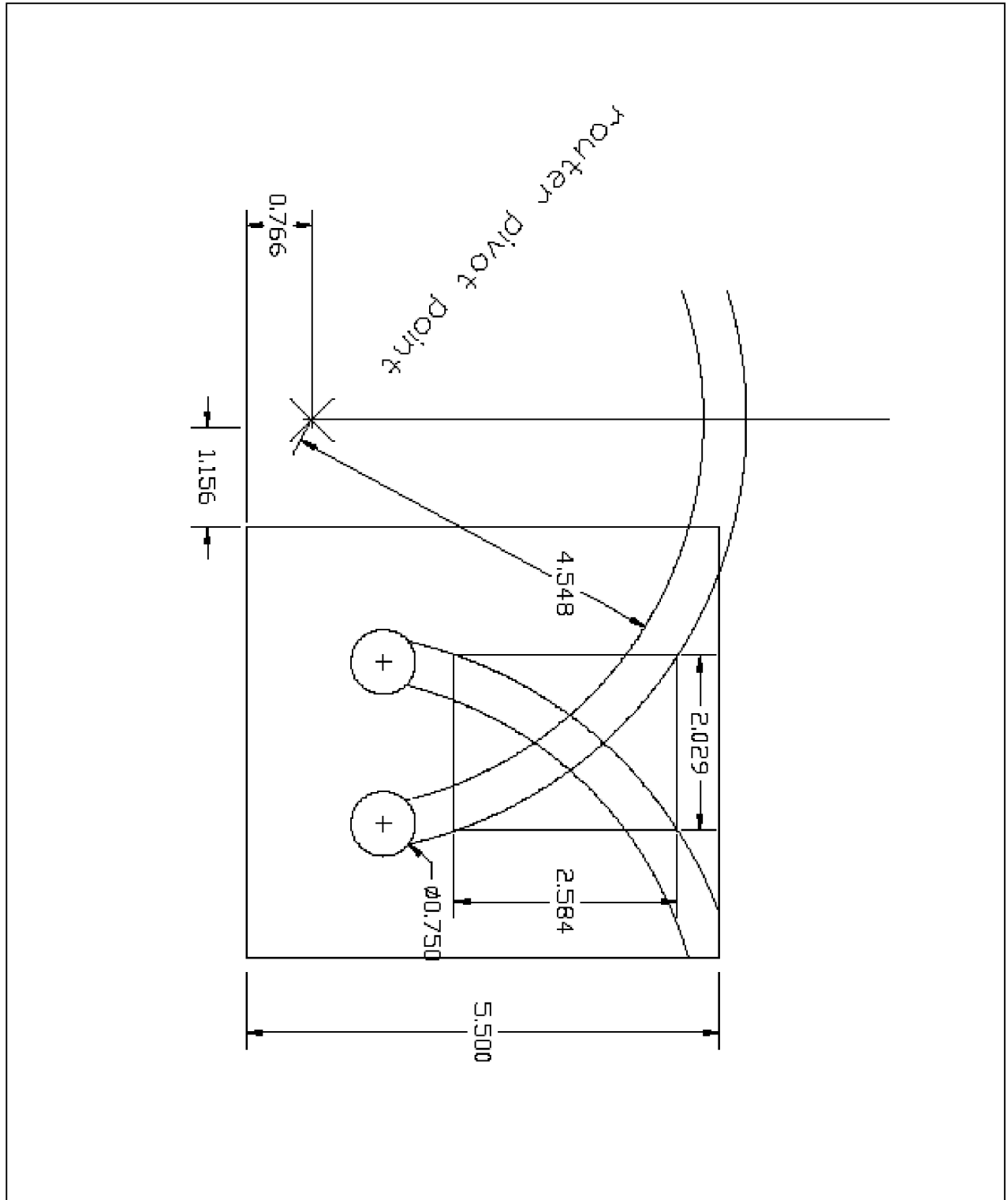
First side traced and holes transfer punched



Drilling relief holes



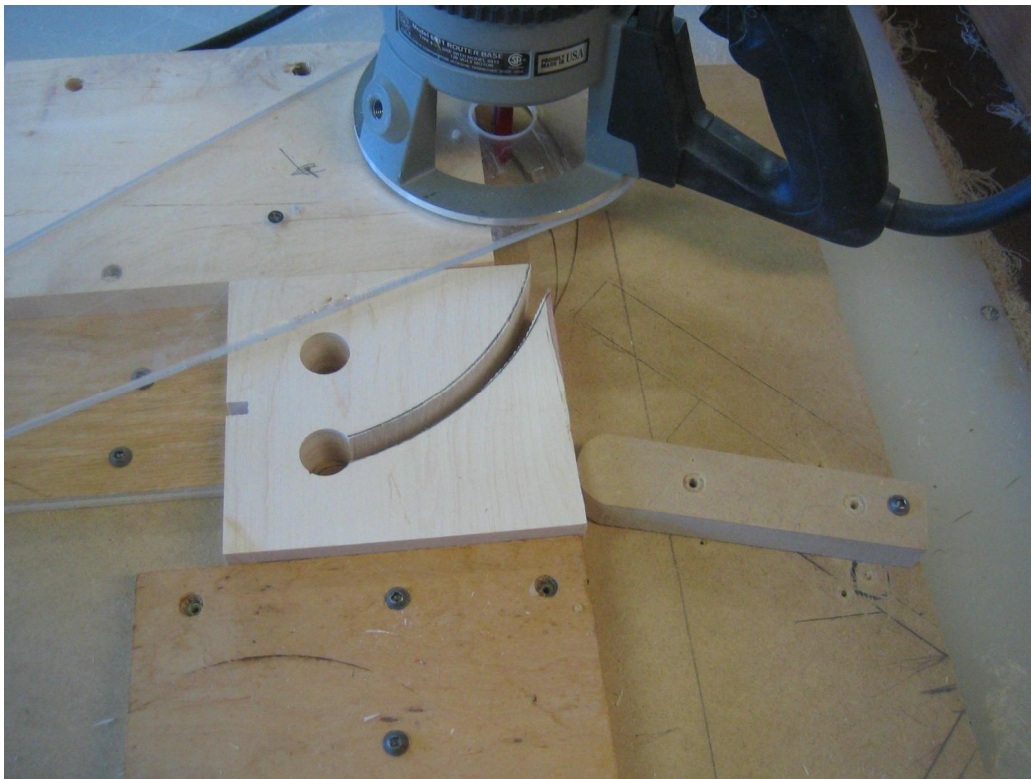
Rough Cutting first slot on band saw just leaving the line.



This is the Sketch for my Fixture



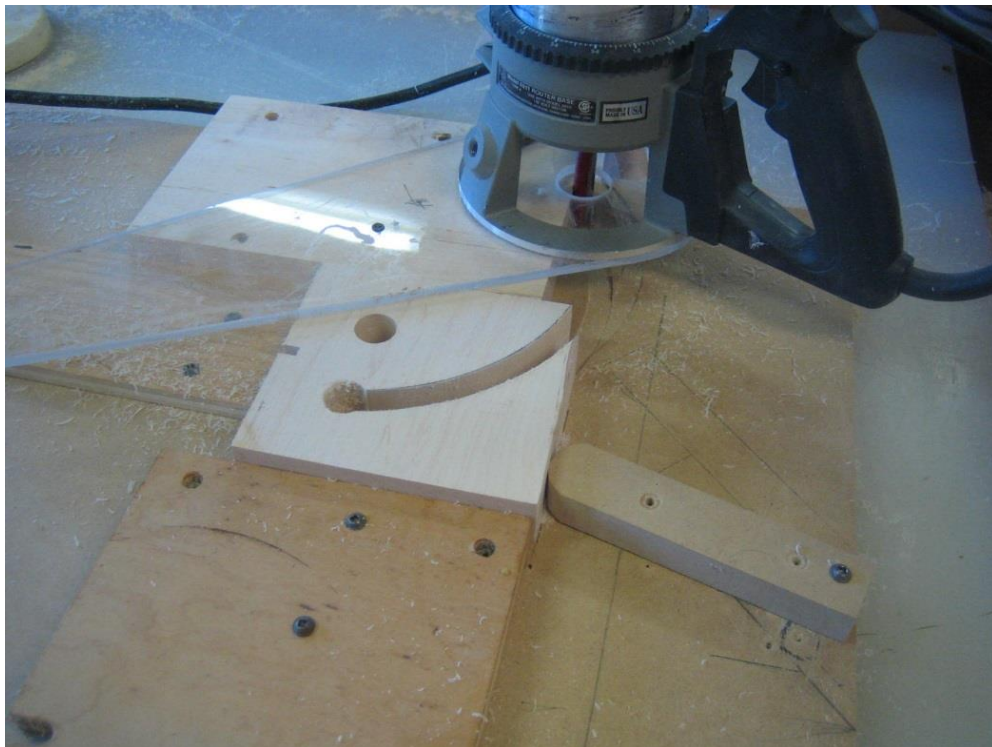
Router Fixture for cutting curved Slots



Block in place on fixture



Routing first Slot



First slot completed



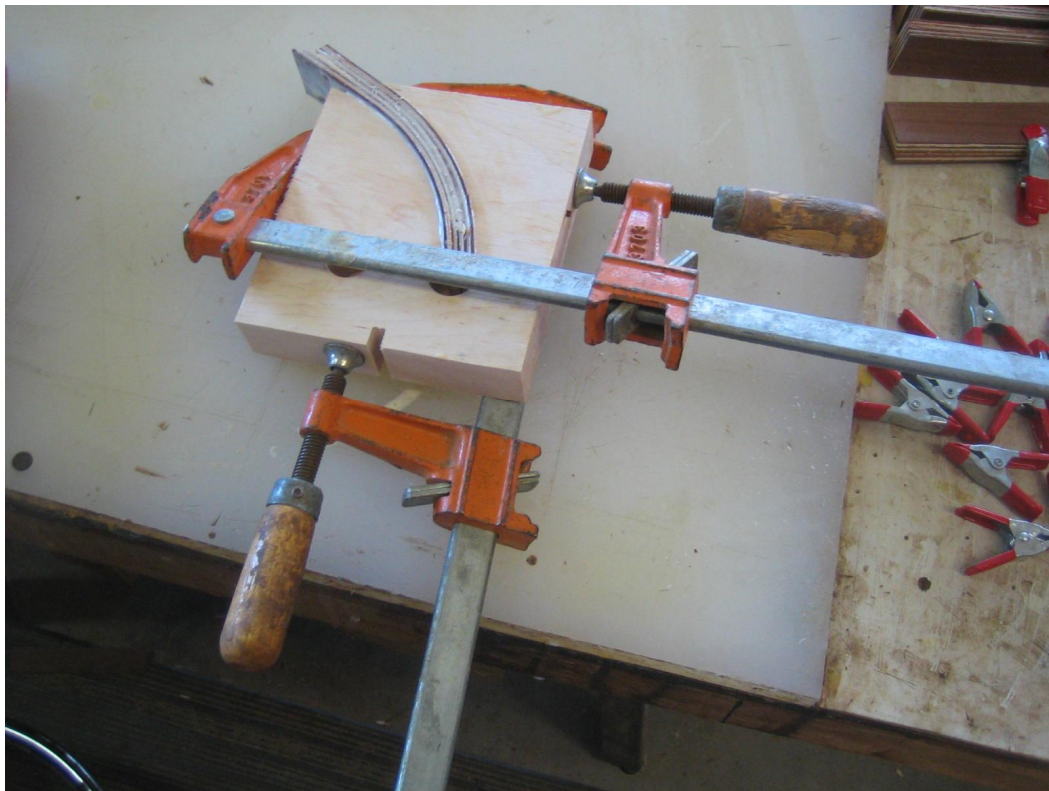
Makeshift border to capture the chips with Dust Collector



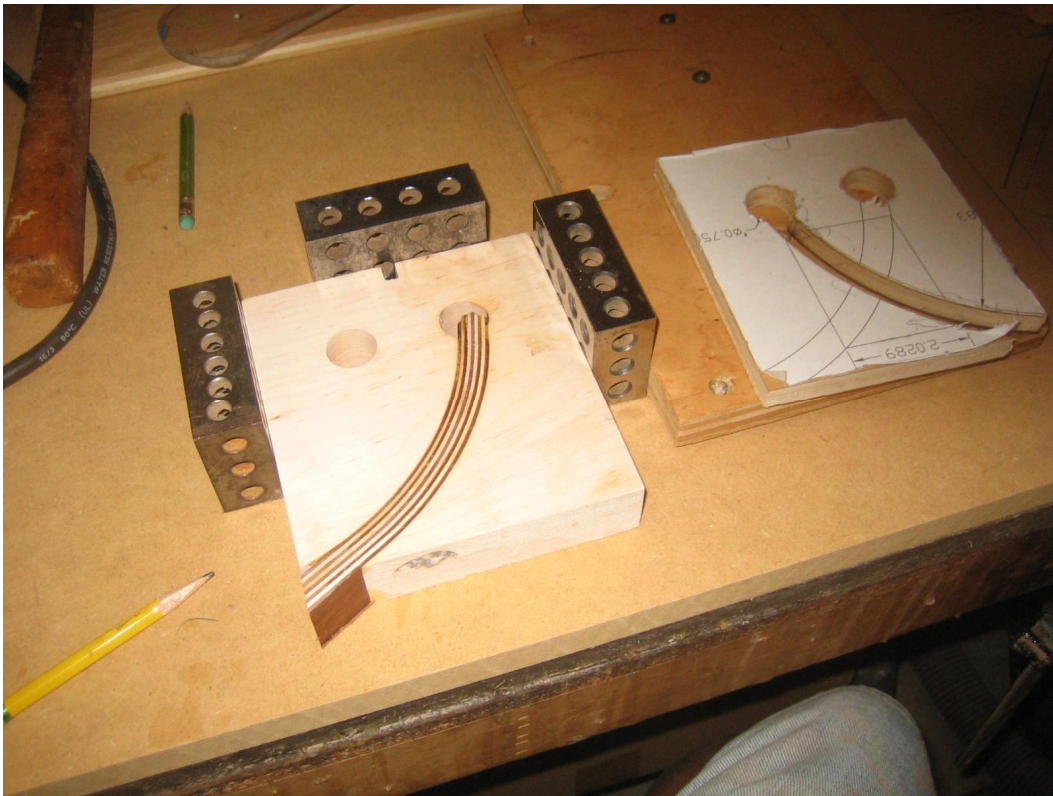
Nine pieces of thin stock with glue ready to force into slot.



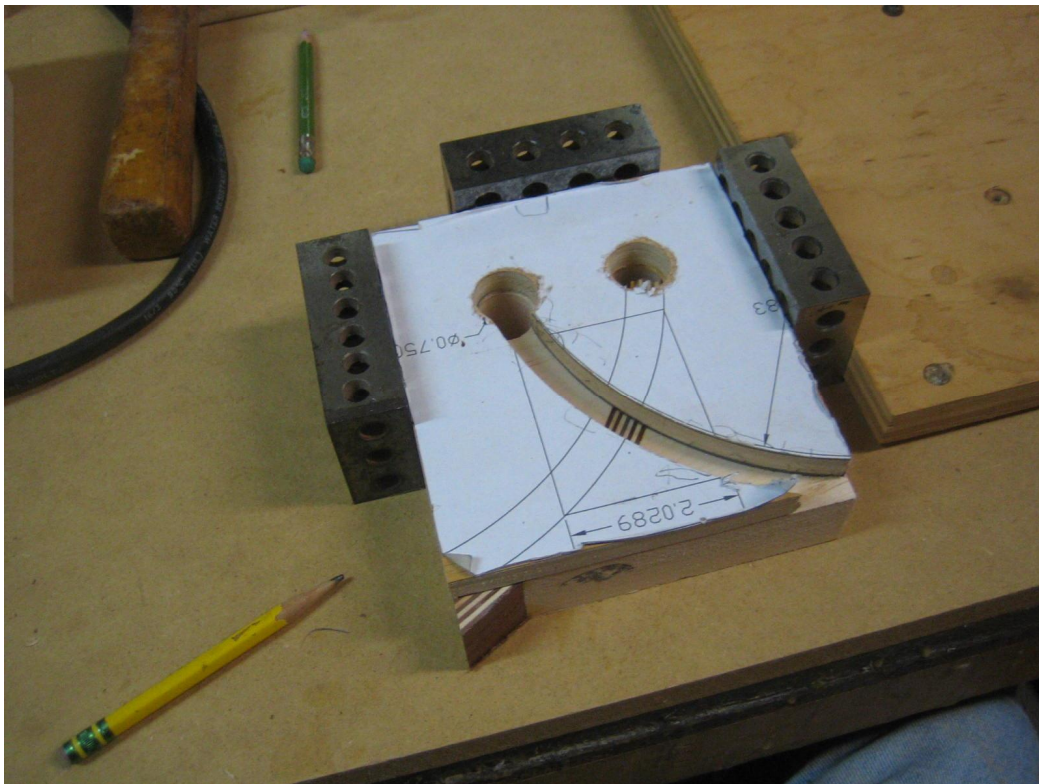
Pieces in place before clamping



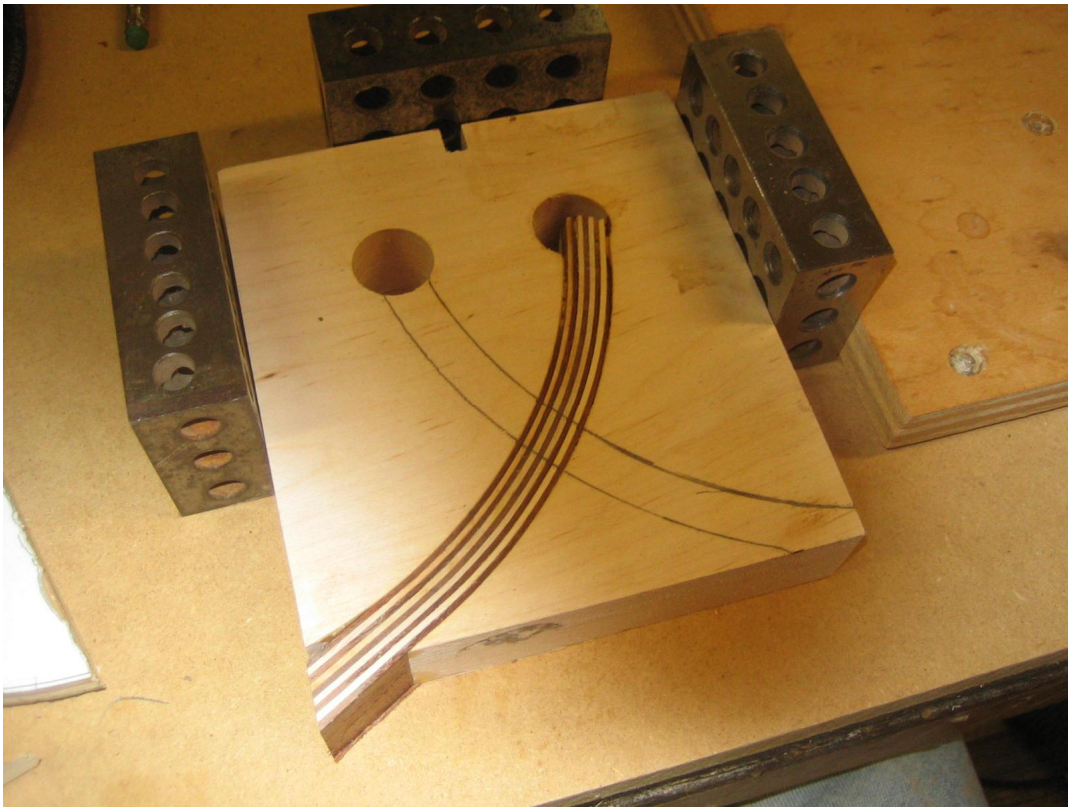
Pieces clamped in place



Block with first curve complete and sanded flat



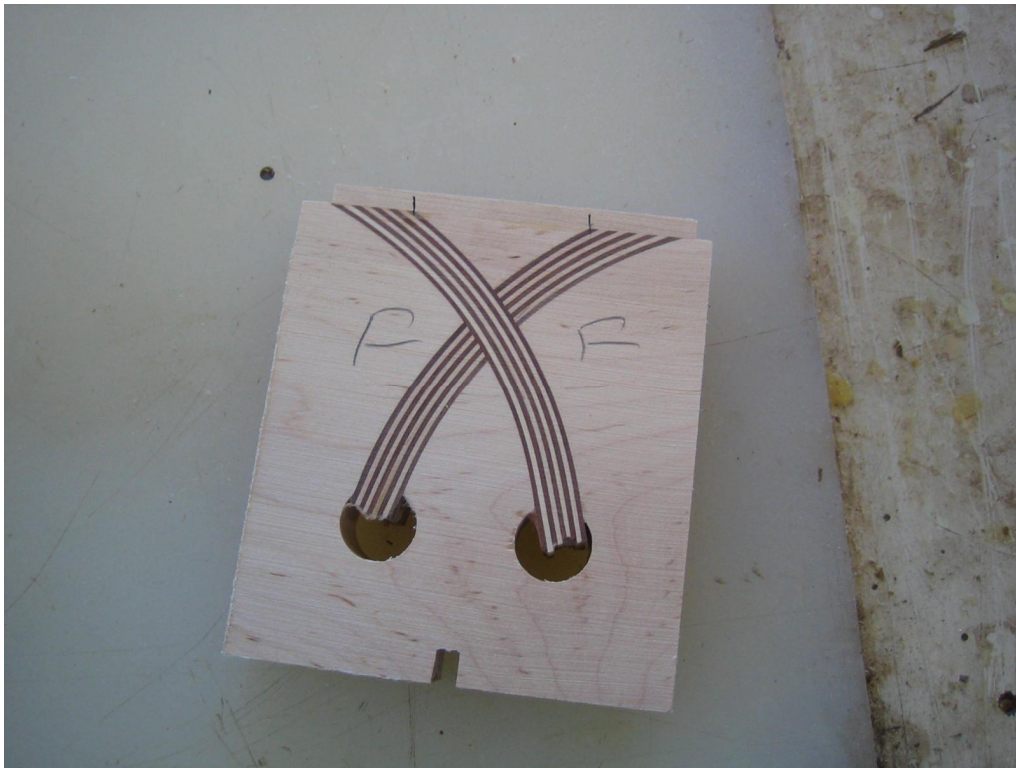
Setup and ready to trace second slot



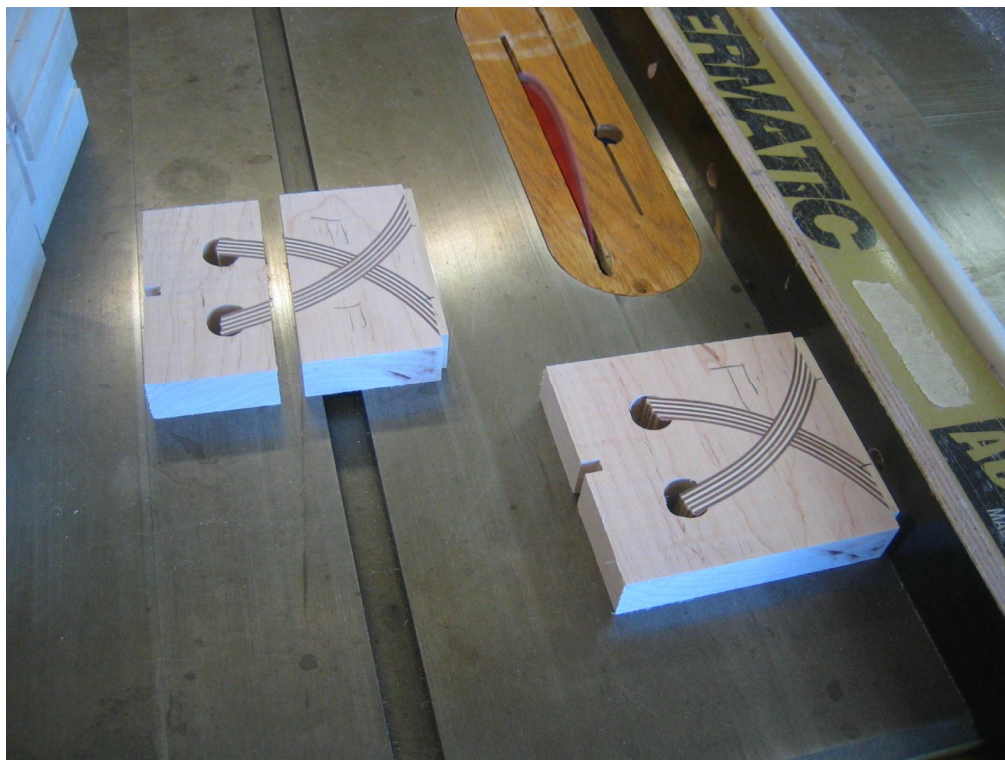
Second Slot traced and ready to be cut on the band saw



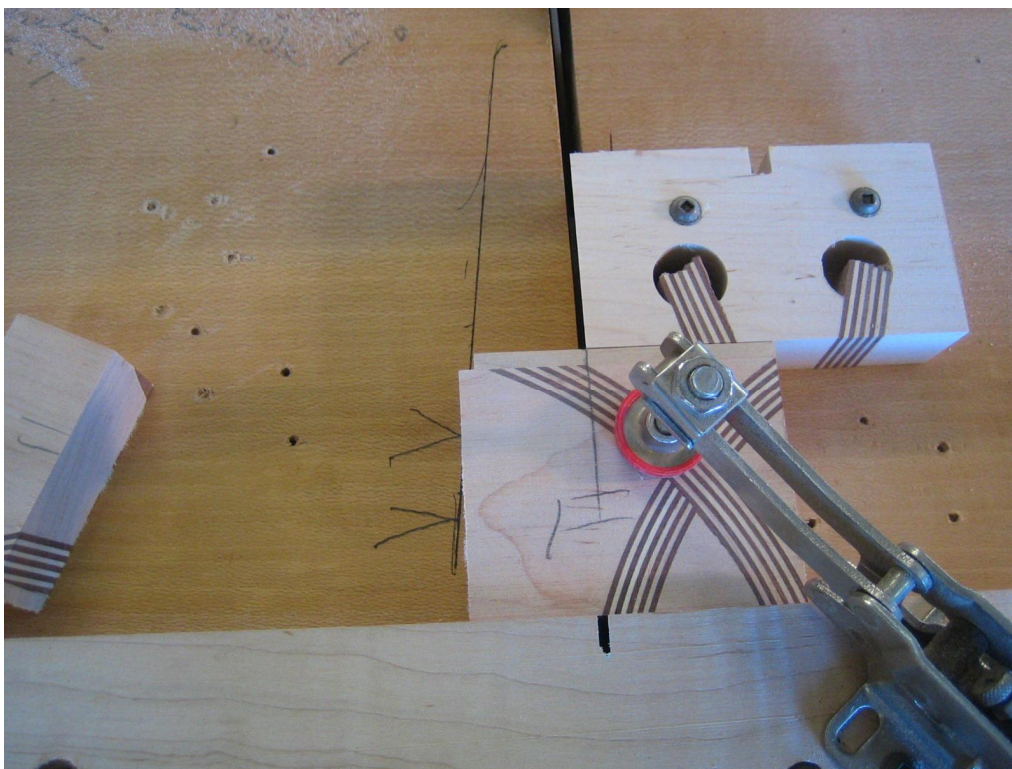
Routing the second slot in the fixture



Here I have cut the Top flat added another piece to create a border so when sanding the ring assembly the points of the arcs are protected



Cutting the blocks to size



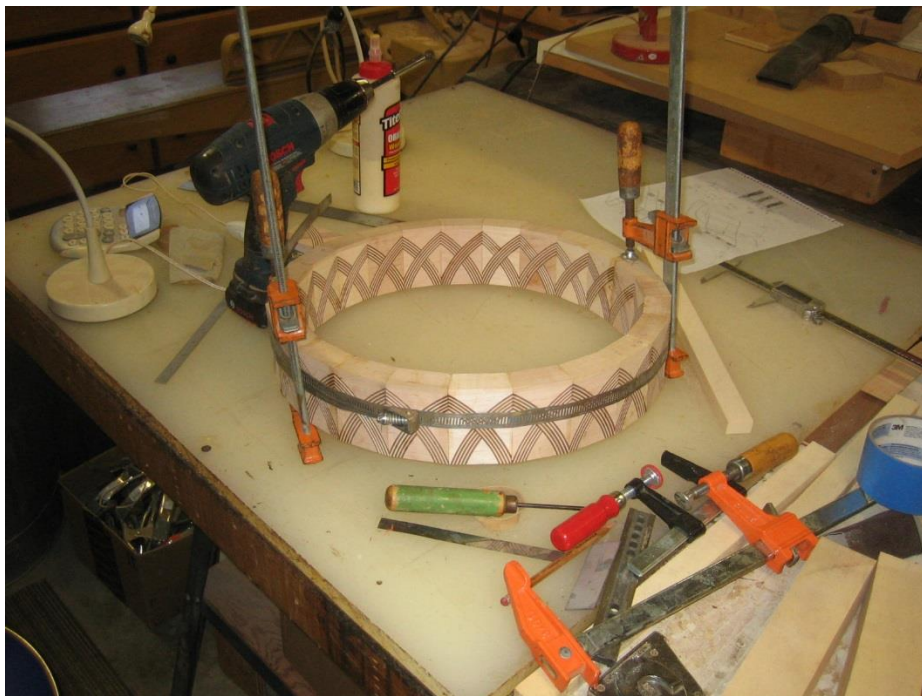
Cutting the segment angles using a line from the inside curve of the block as my registration point. It lines up with the waste block screwed to the sled.



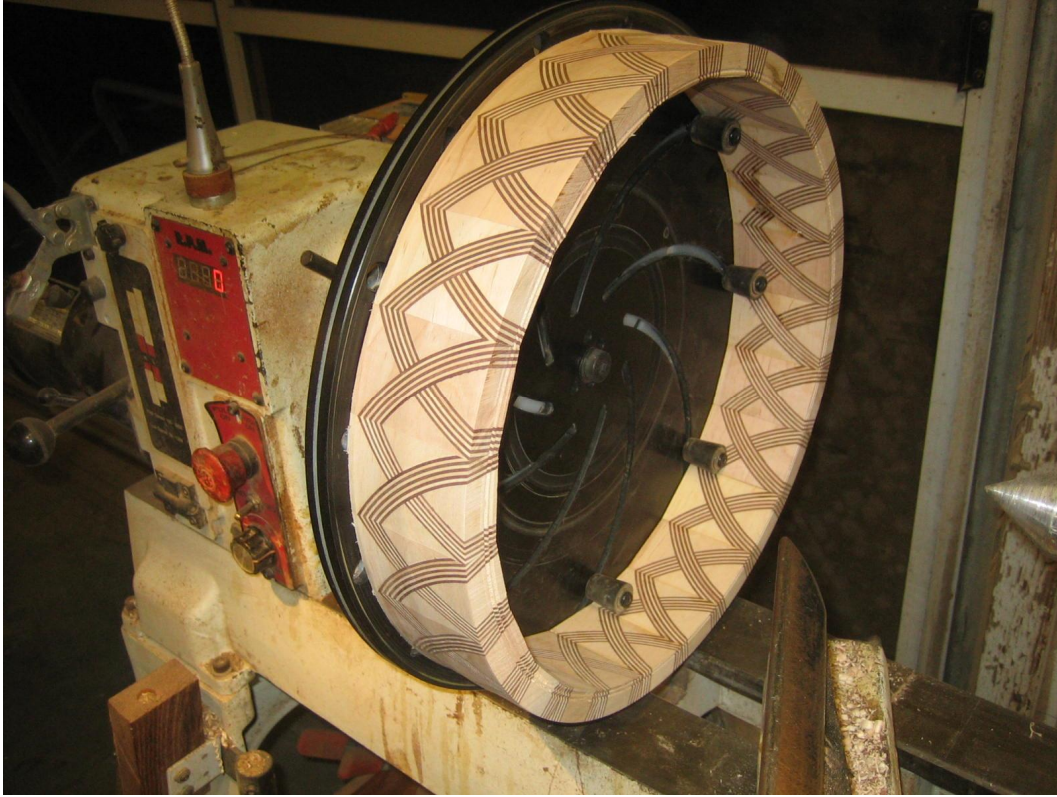
Gluing up segment two at a time to be sure arcs are lined



Half ring glued up and lap sanded flat



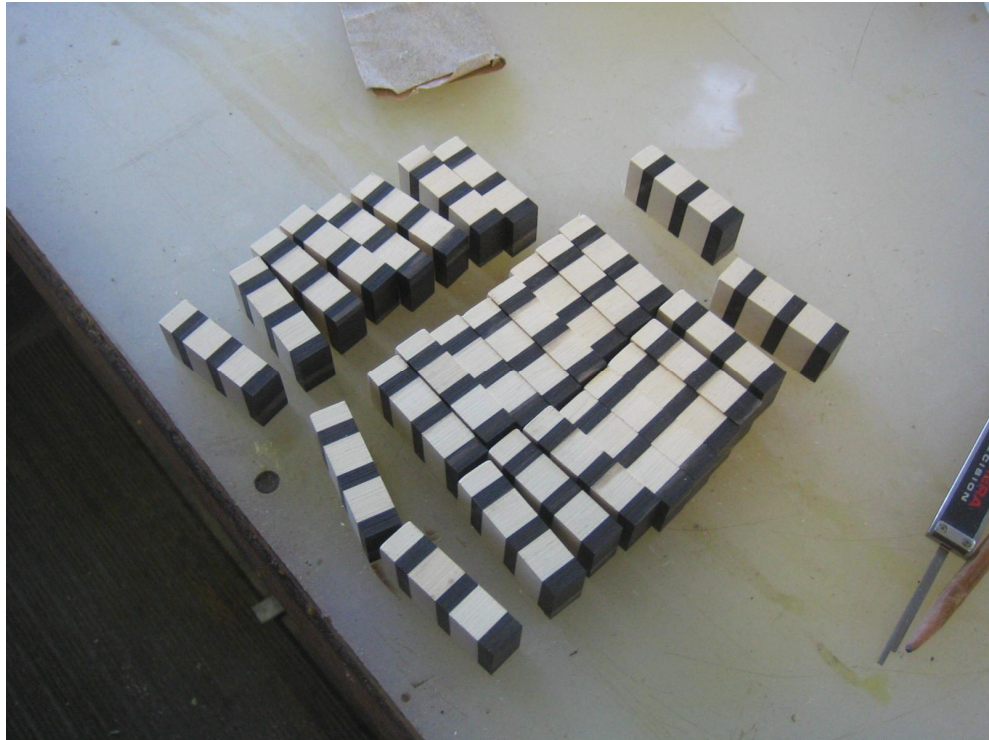
Both Halves glued into full ring



I felt I needed to turn this ring round to just clean up before making the next rings.



Gluing up strips of Holly and Ebony for accent rings



Blocks cut before cutting Miter angles



Cutting Miter angle using my ðSEG-EASYðSled



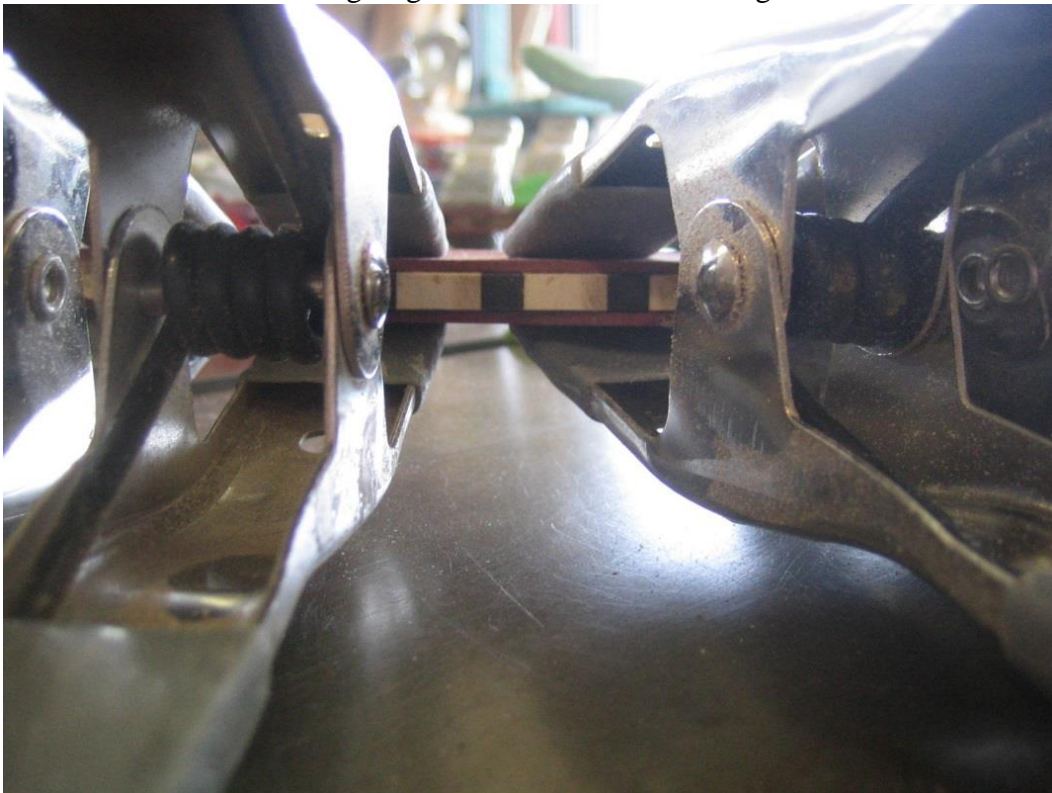
Ring glued up. I will split these ring into two rings on the Table saw.



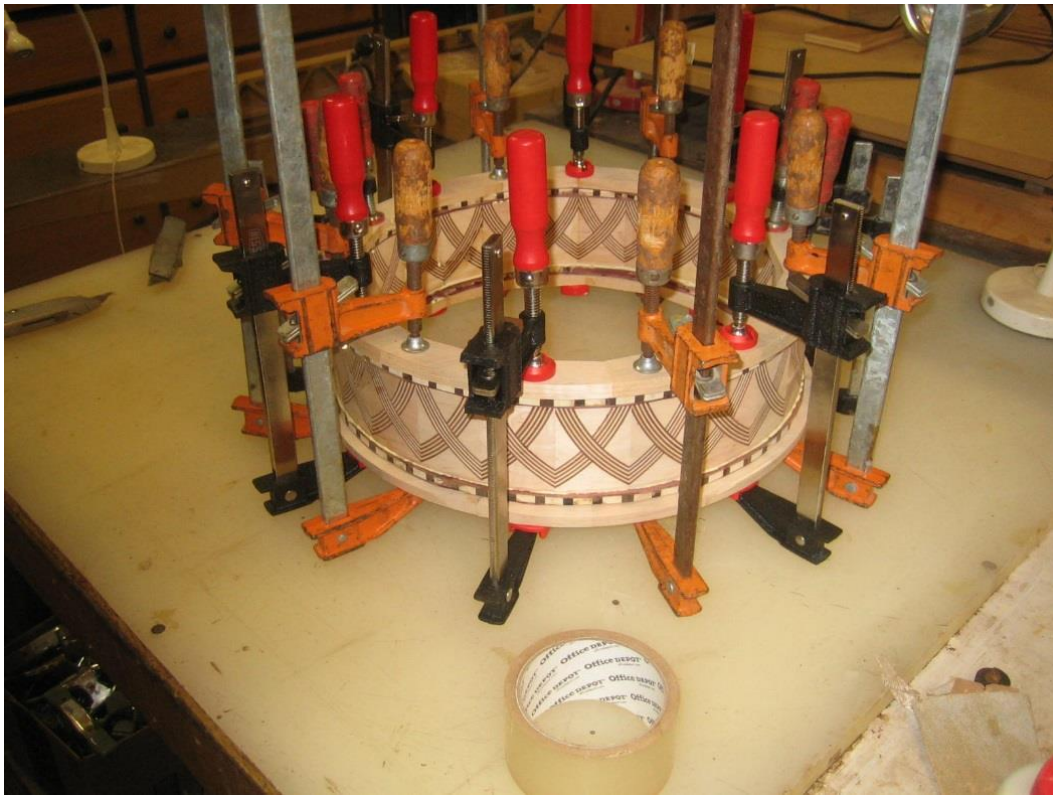
Sanding Ring Flat both sides



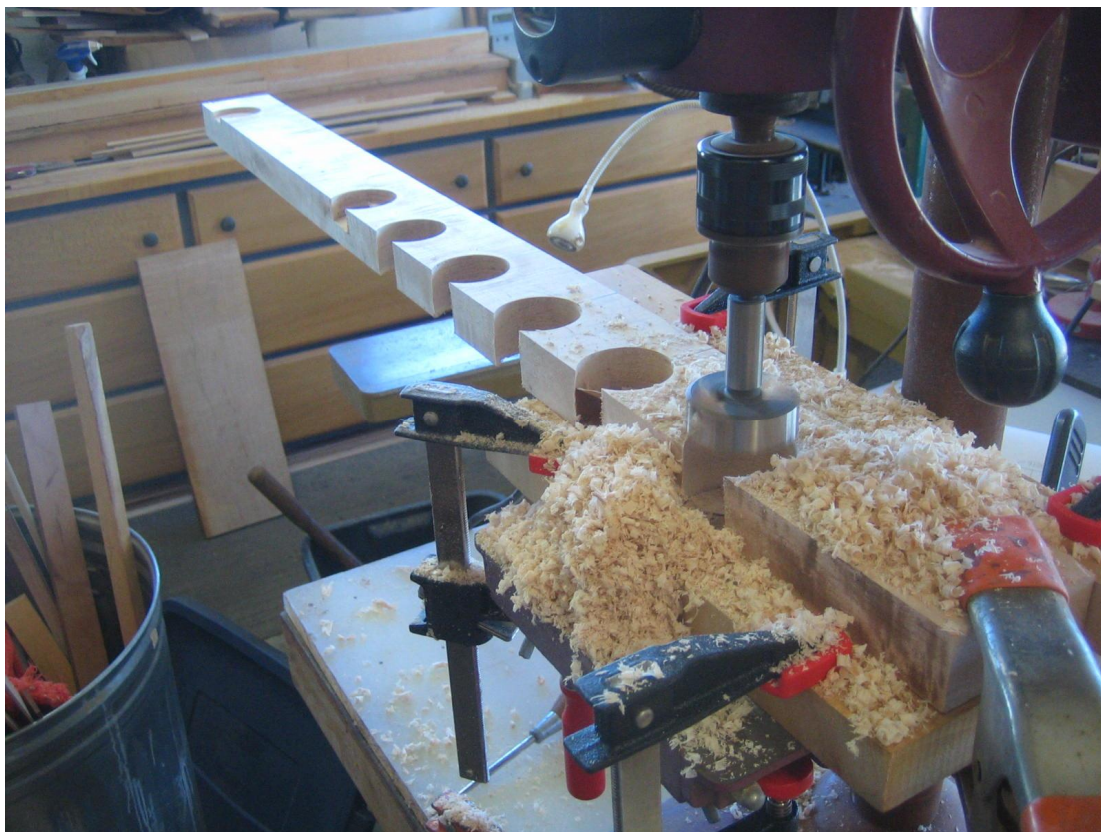
Gluing rings in between two other rings



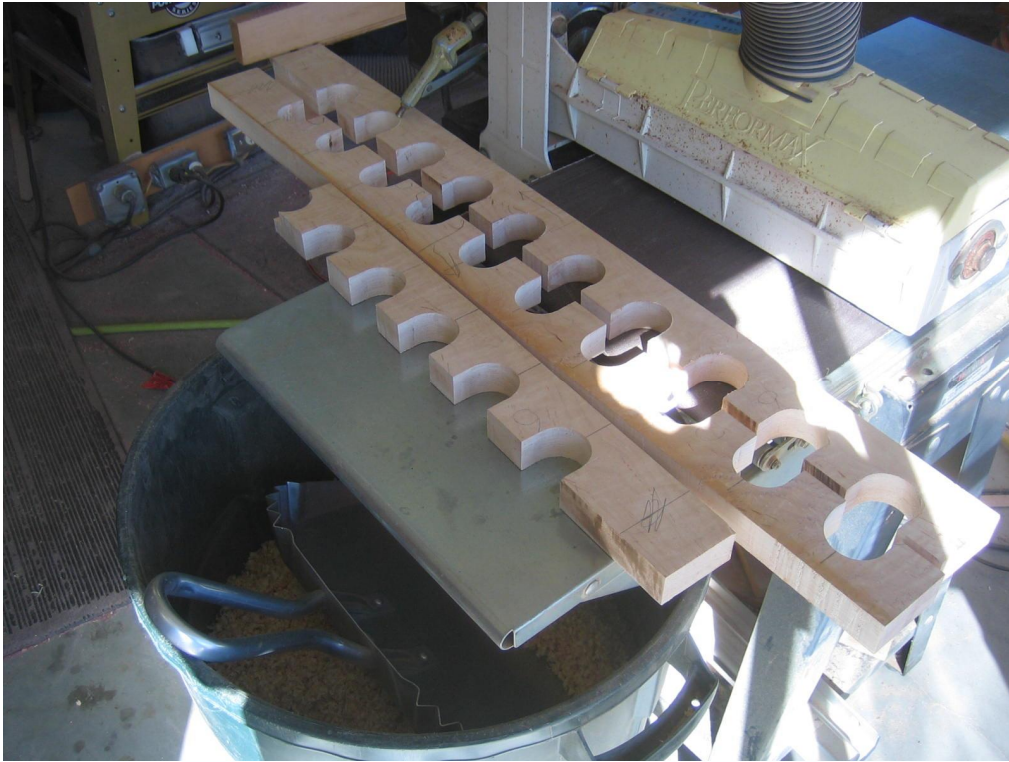
Closer look



Gluing Accent rings onto feature Ring



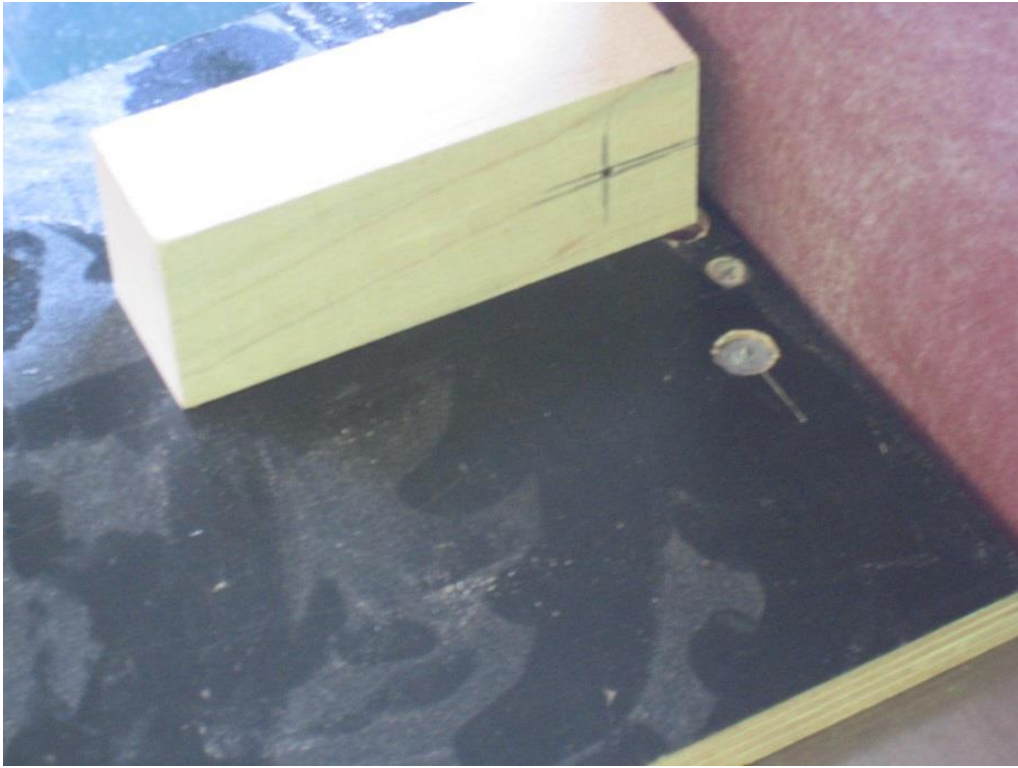
Drilling holes for slots in lower feature ring



Another look



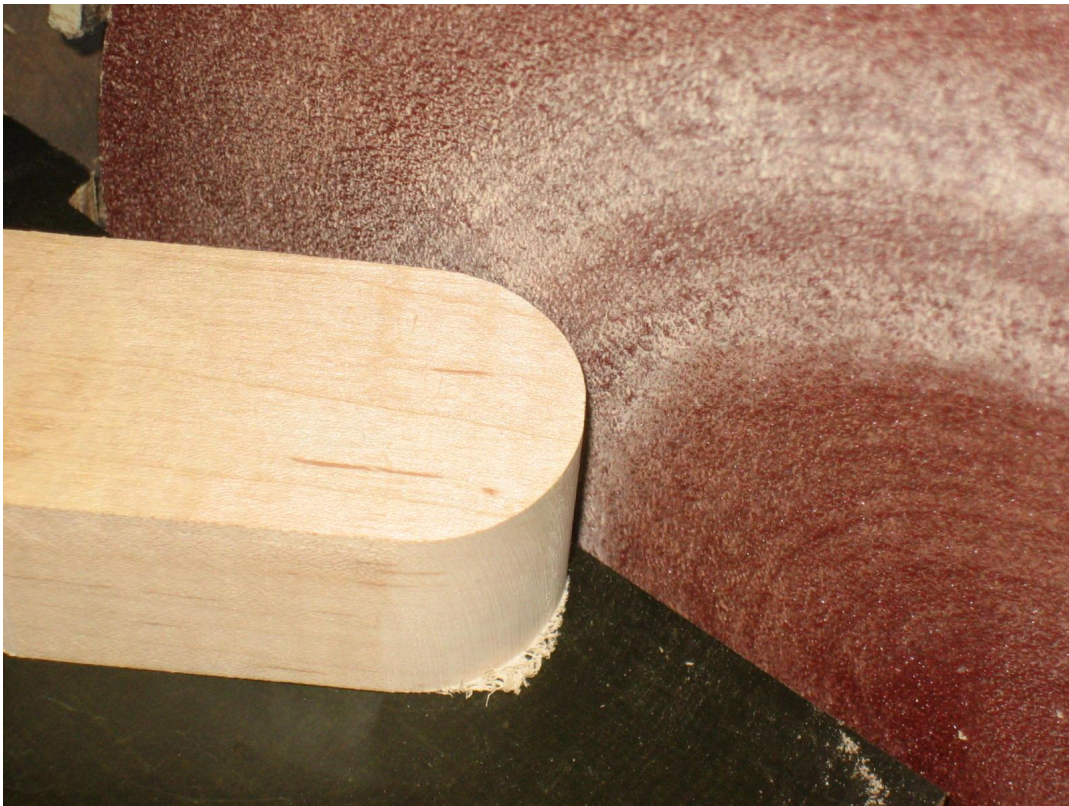
Bullnose pieces for lower Feature ring



Sanding fixture for making the bullnose showing mating pivot points



Peace face down and onto the pivot pin



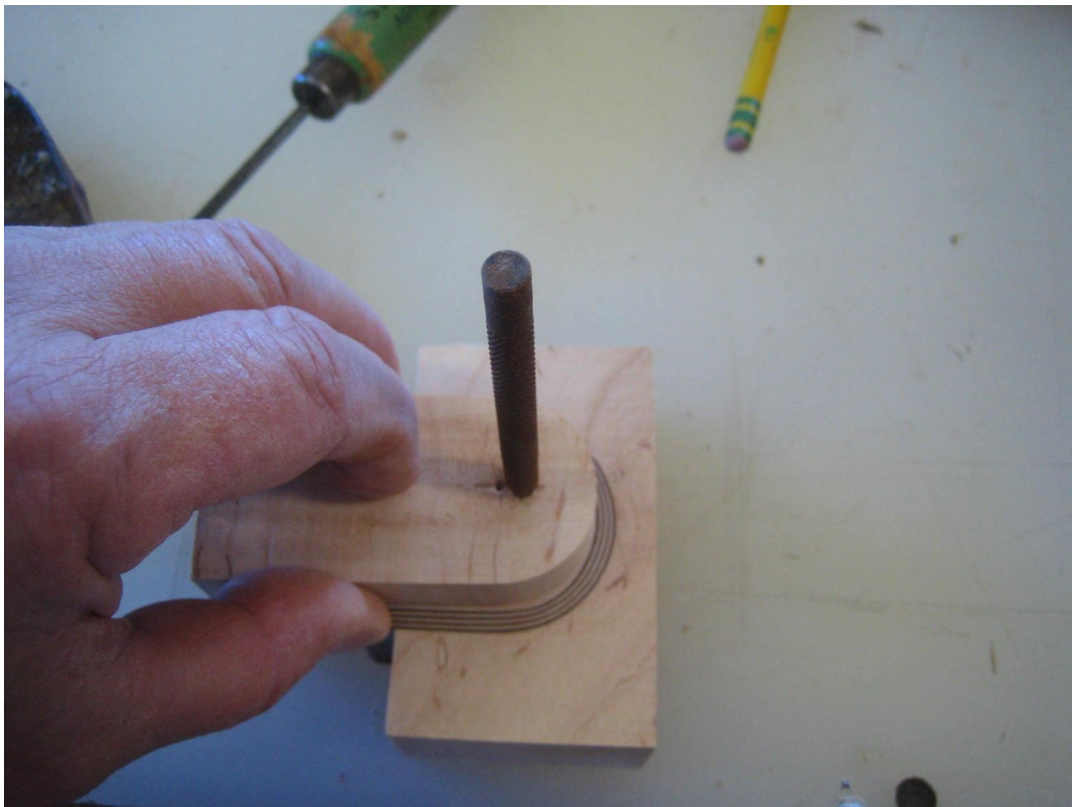
Rotate piece to create the radius



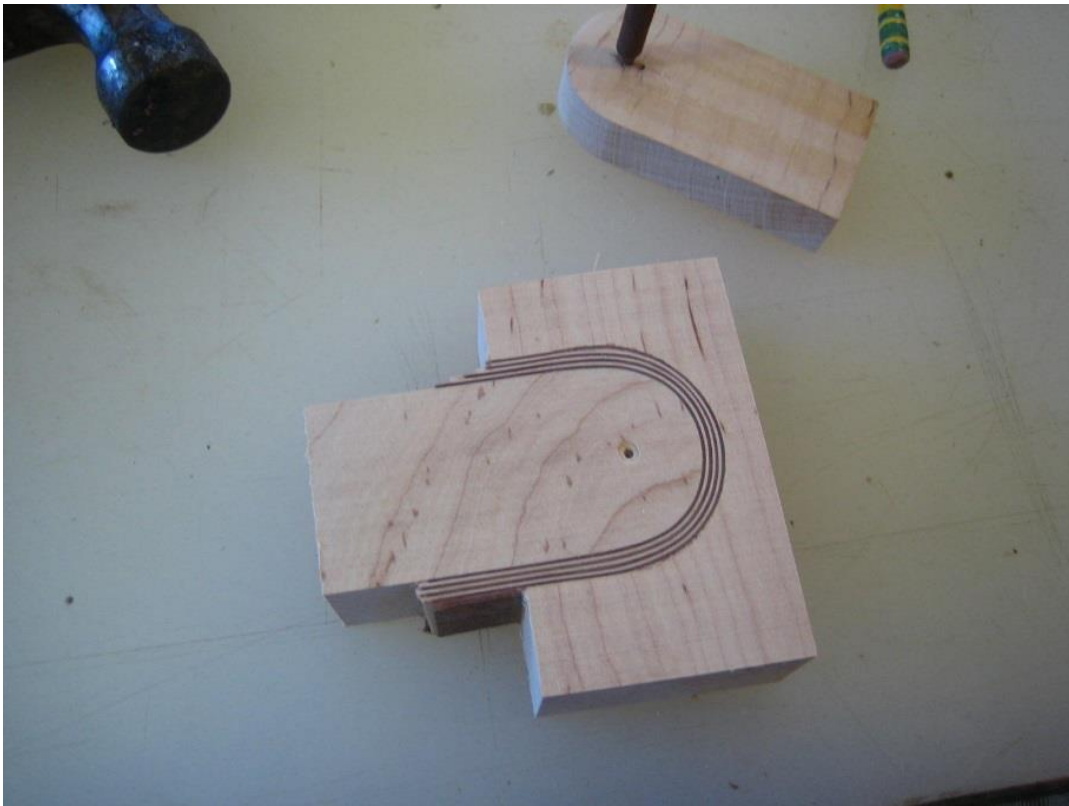
7 thin pieces glued ready to glue into the block



Blocks glued and clamped



Using a transfer template to mark the center for the rosette piece



Center Marked



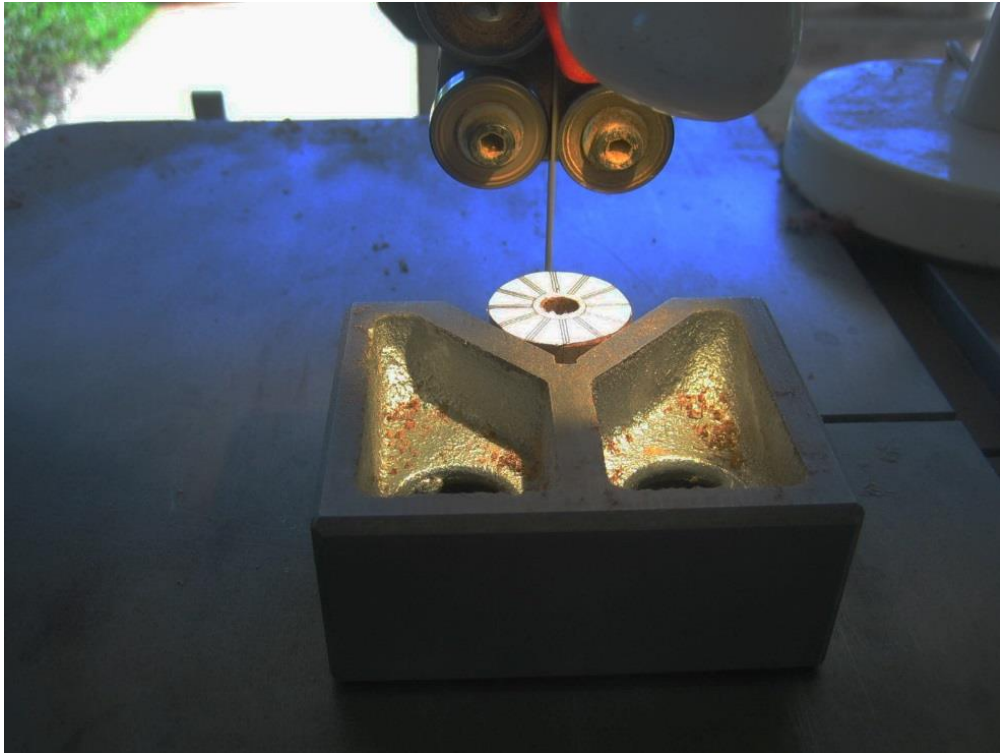
16 walnut dowel with center Marked using the Lathe for accuracy.
Paper patterns printed on full sheet label paper and cut out.



Sticking on the pattern using an awl through the center mark and into the center of dowel
Centering is important because you will be band sawing just to the line in the following steps



Drill $\frac{1}{4}$ Dia. hole using the lathe



Cutting the slots for the maple insert pieces using a V-Block
Cut just to the line and use a fine tooth blade 12 TPI



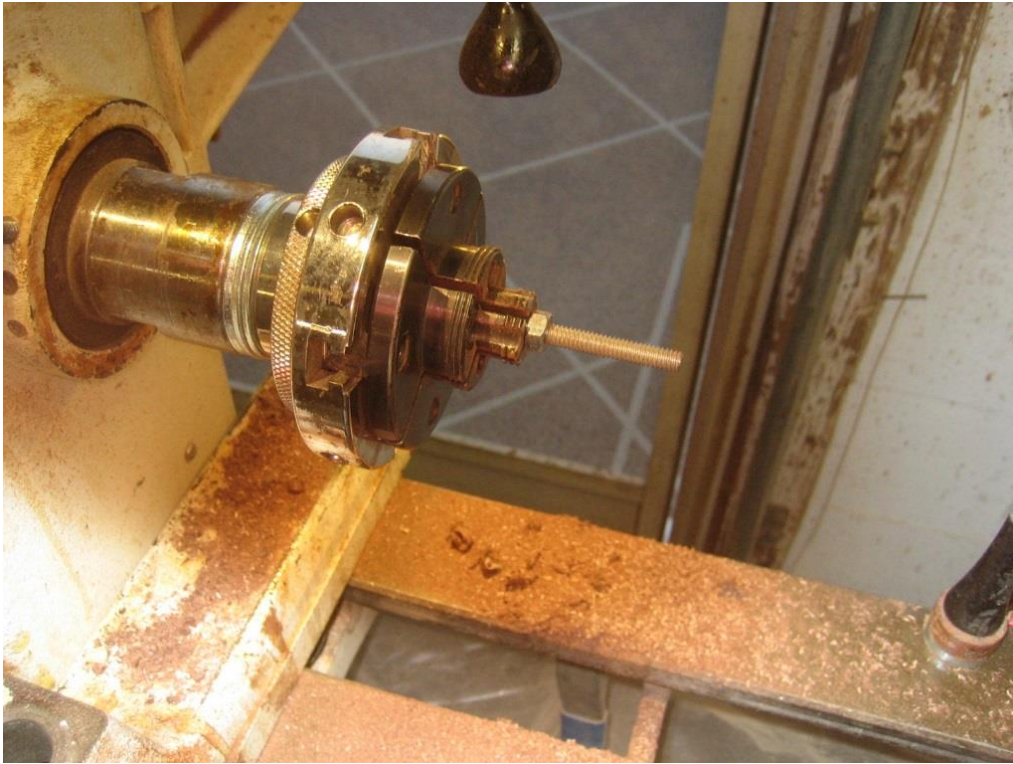
Slots cut ready for the Maple inserts



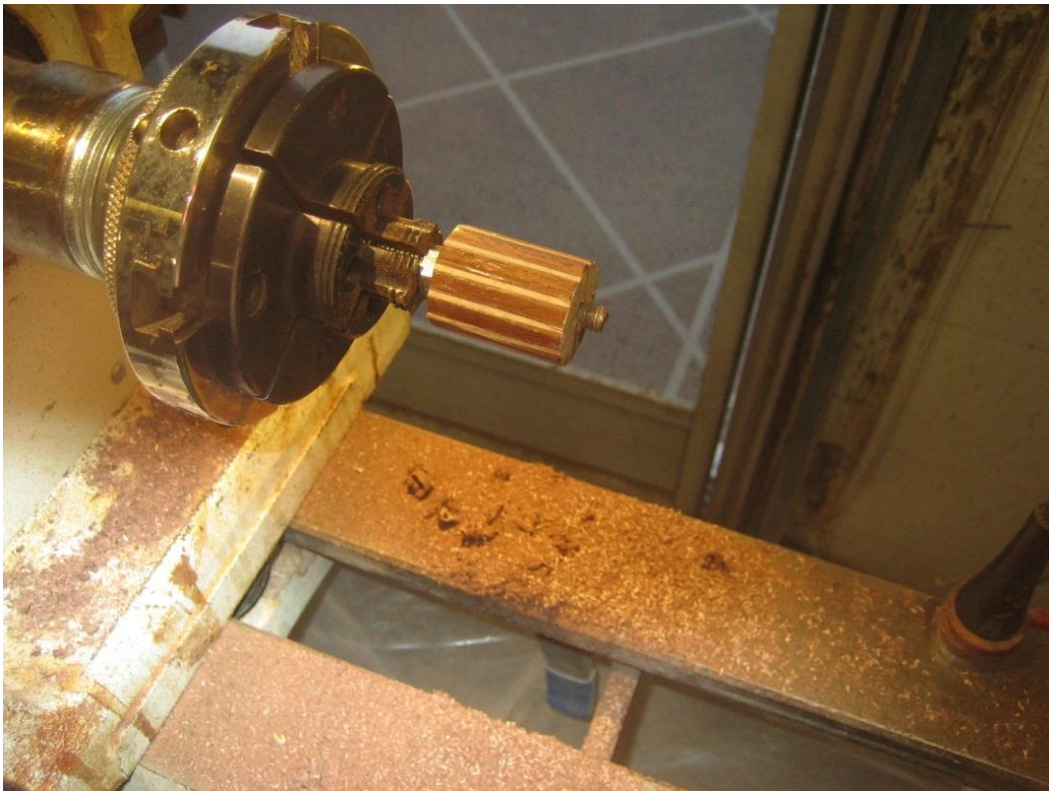
Gluing in the Maple inserts



Cutting Excess off.



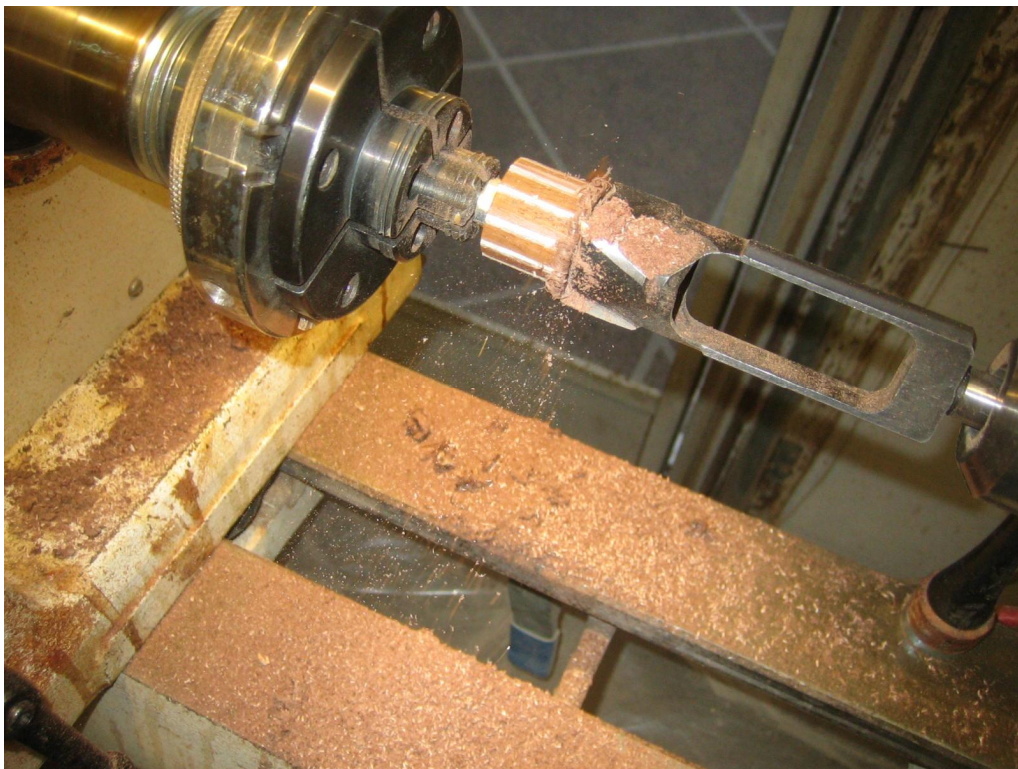
Piece of 1/4-20 threaded rod and nut to hold Piece.



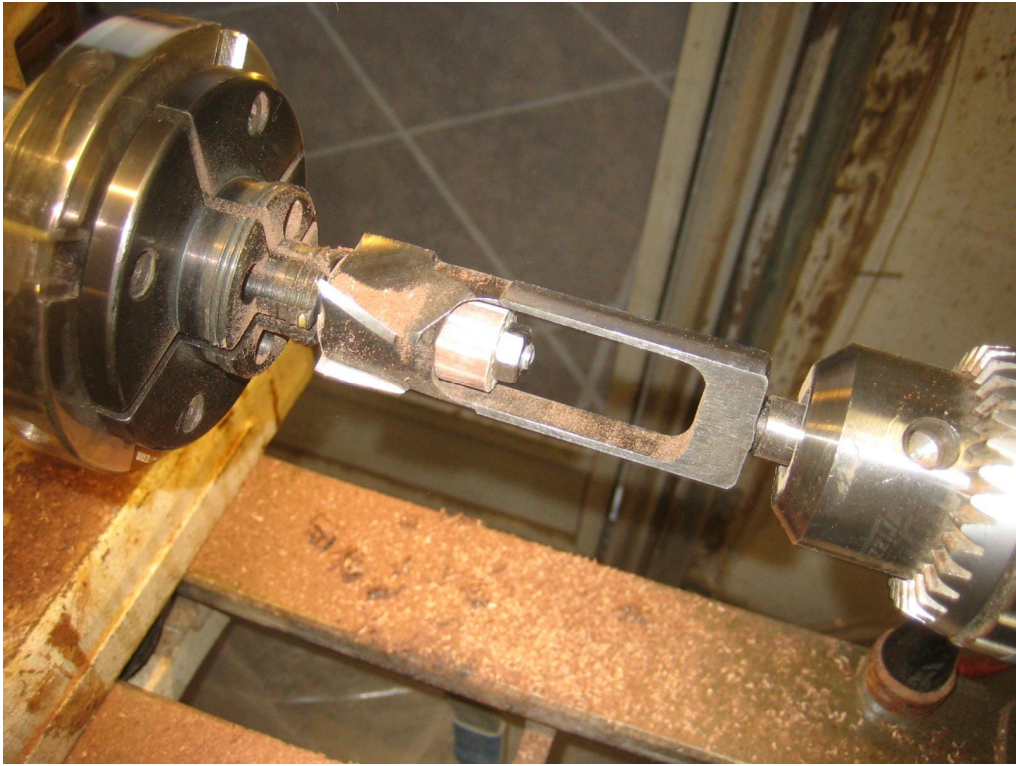
Hole needs to be cleaned out with 1/4 drill then mount the piece



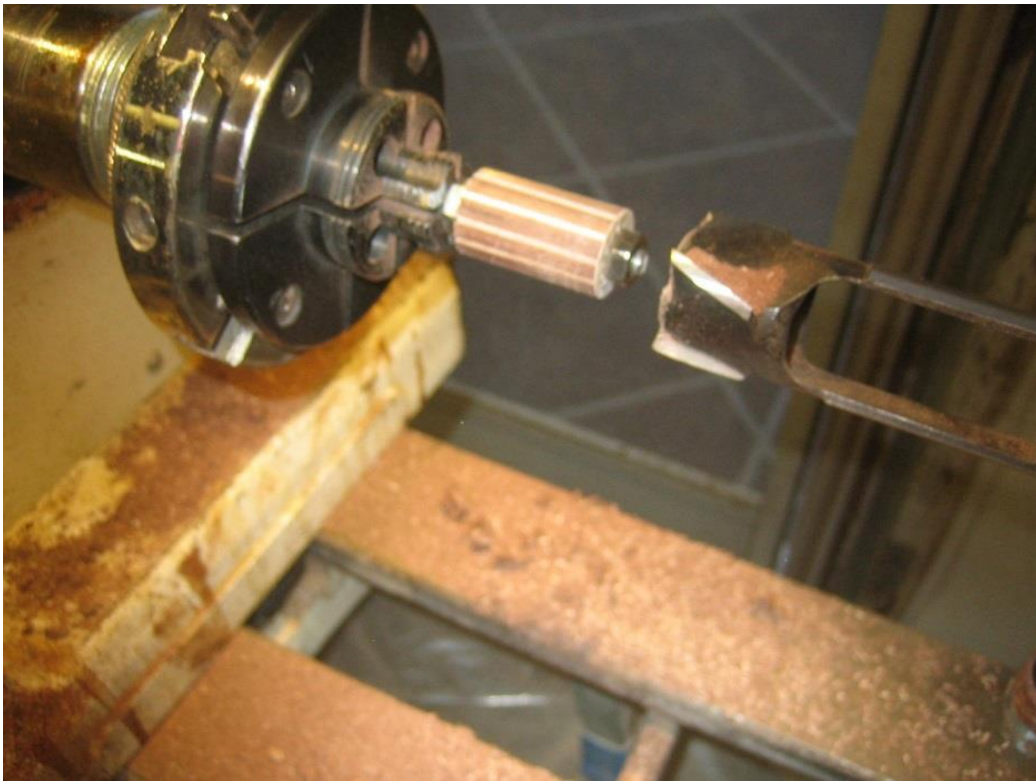
Piece held on with nut. Tighten to prevent piece from rotating on threaded rod.



Cutting the 1.0 dia. piece to 0.75 dia. using a deep plug cutter



Closer Look



Pieced finished at $\frac{3}{4}$ Dia.



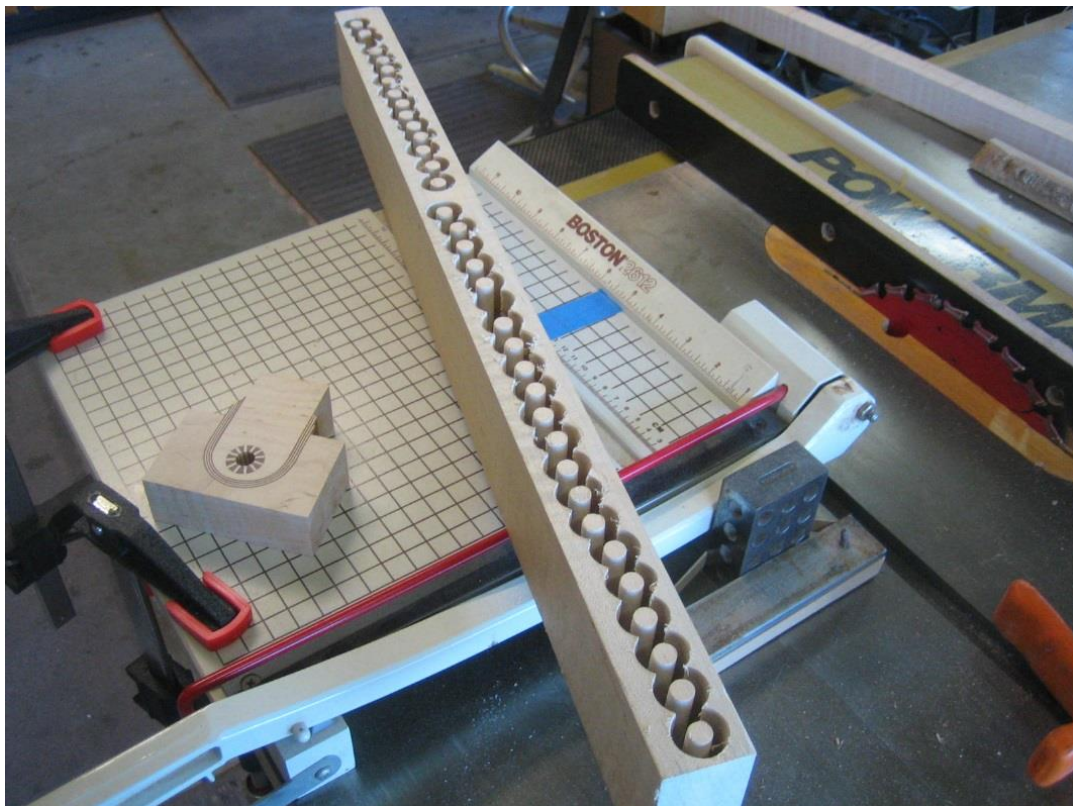
This in my set of deep plug cutters



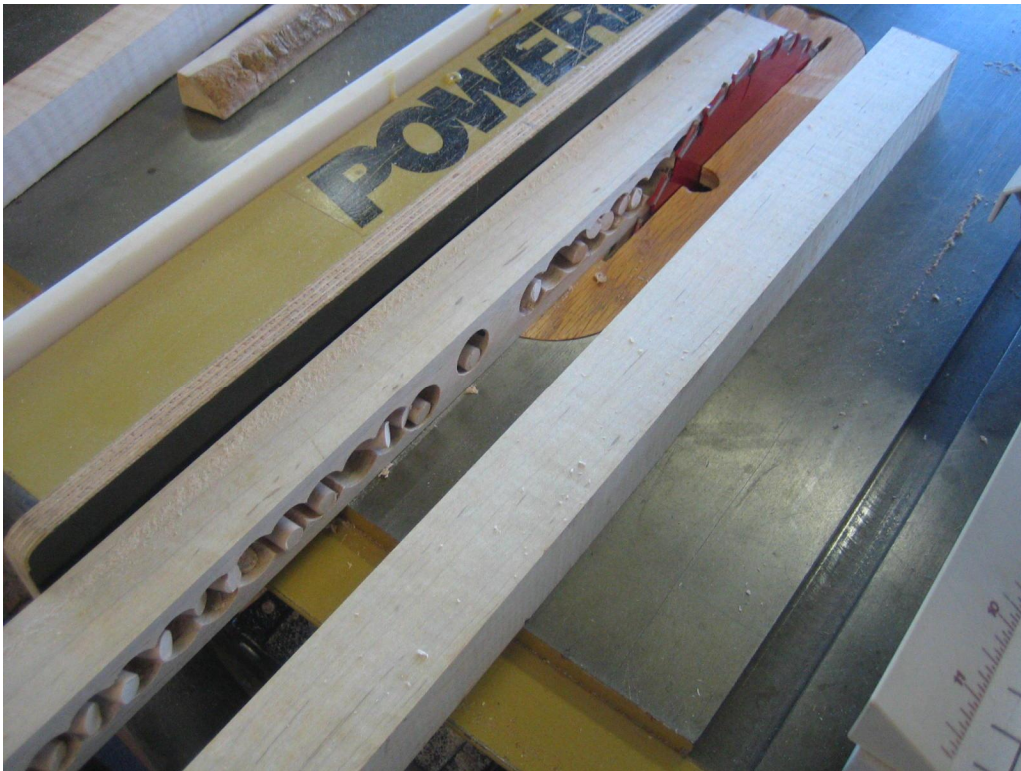
Drill out $\frac{1}{4}$ " hole to $\frac{3}{8}$ dia.



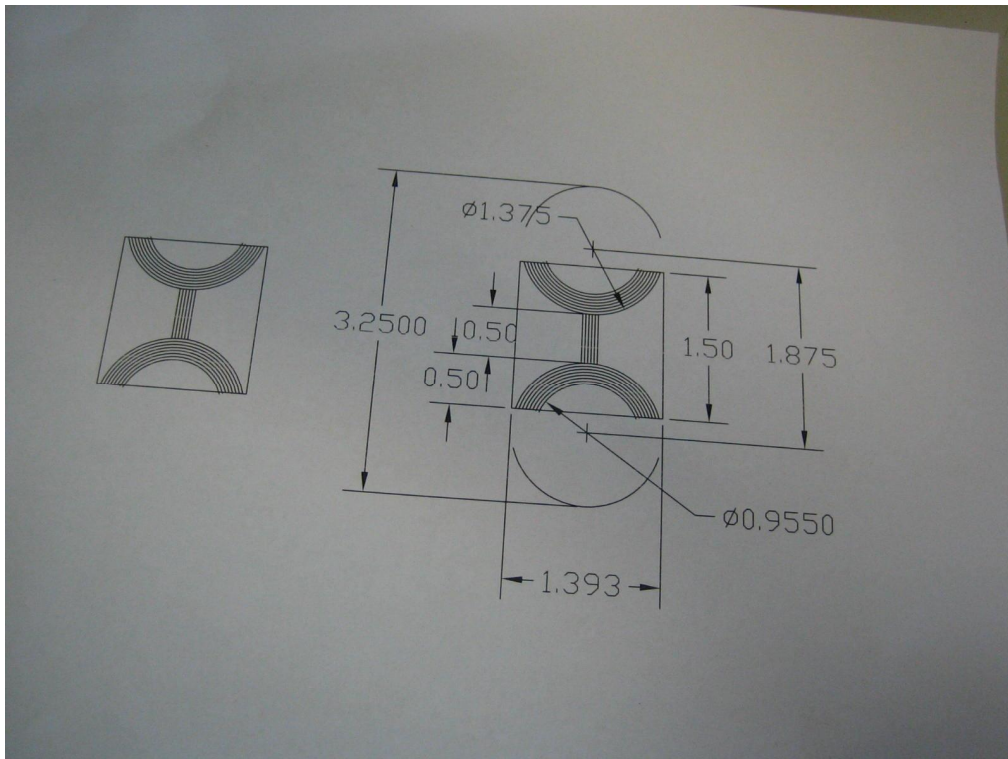
3/8 hole drilled and ready to accept a Maple 3/8 face grain Plug



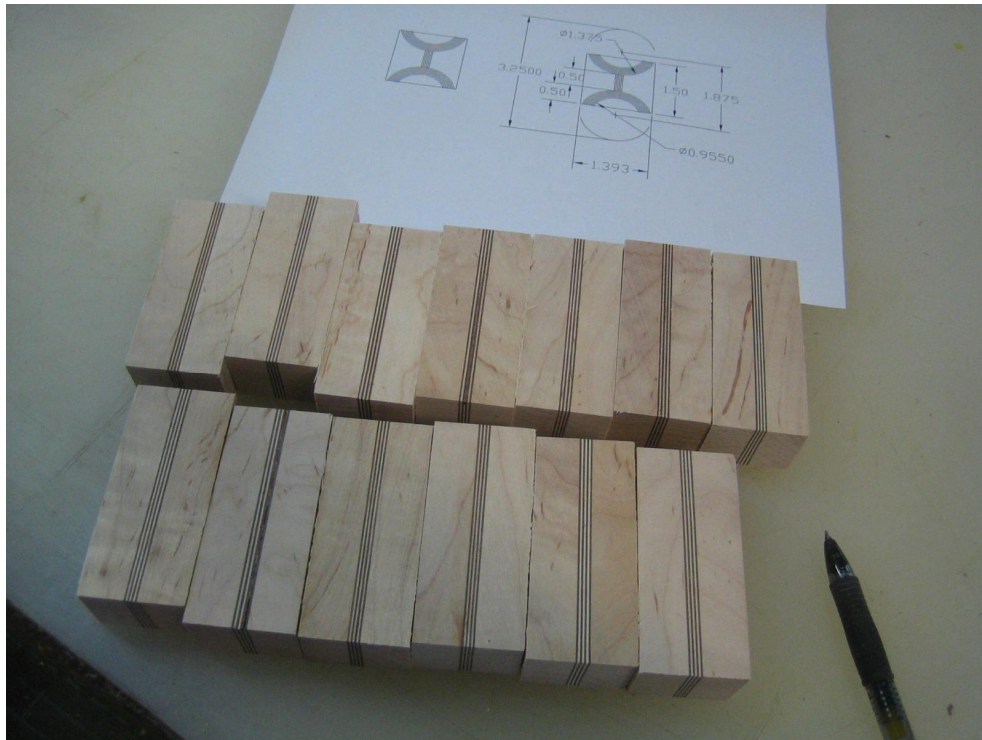
Making the 3/8 Face grain plugs using a deep plug cutter



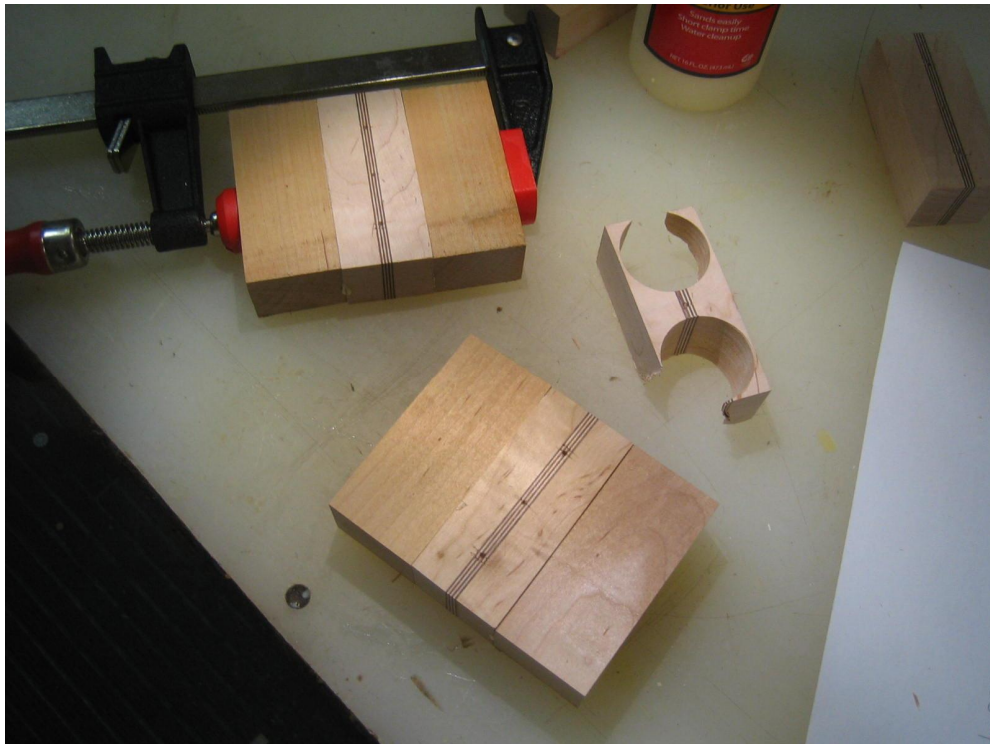
Cutting the strip to free the plugs



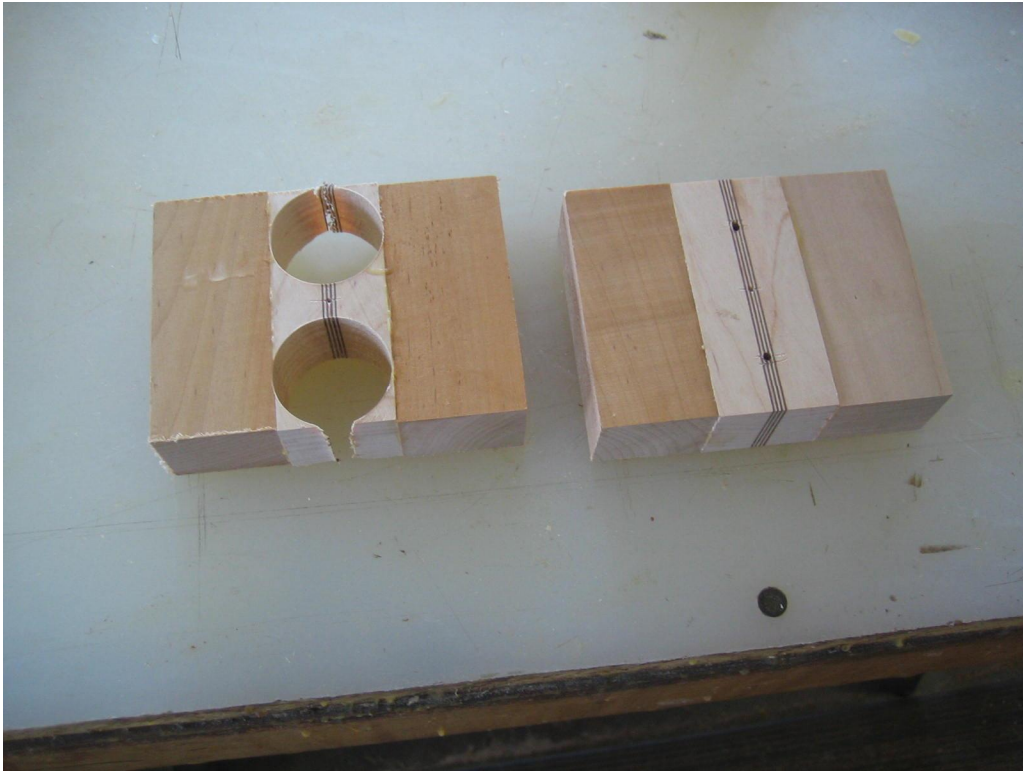
My layout for the Neck Ring segment



Center strips glued between 2 pieces



I added on extra material here for support. I should have just made my side piece wider. It doesn't matter because it will all be cut off for the final piece



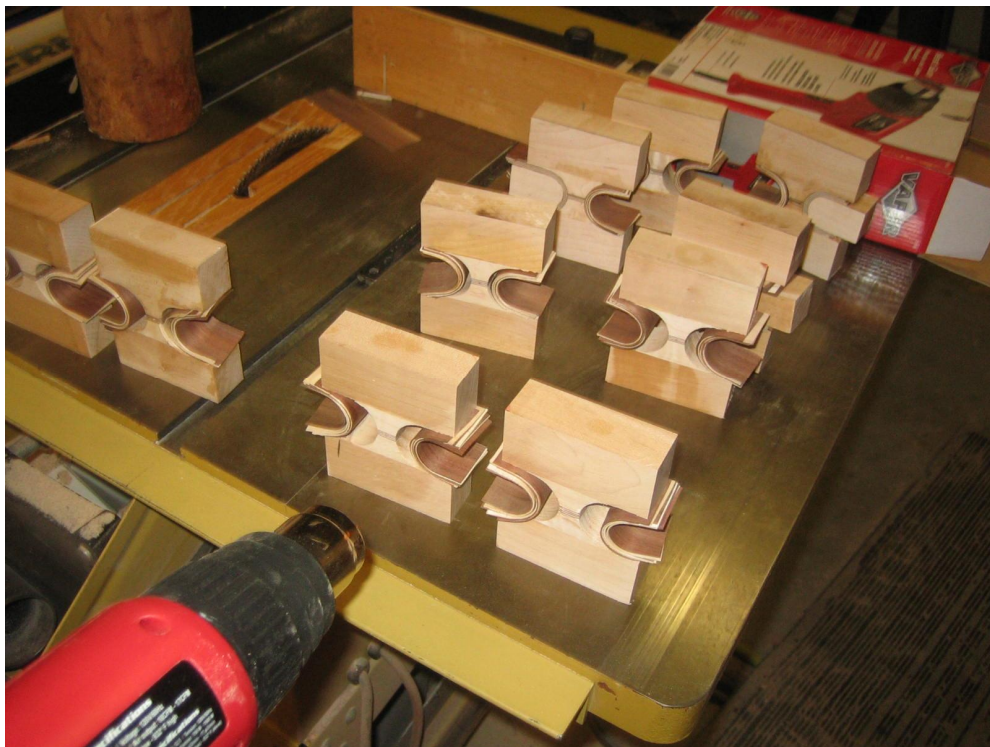
Holes drilled for the slots



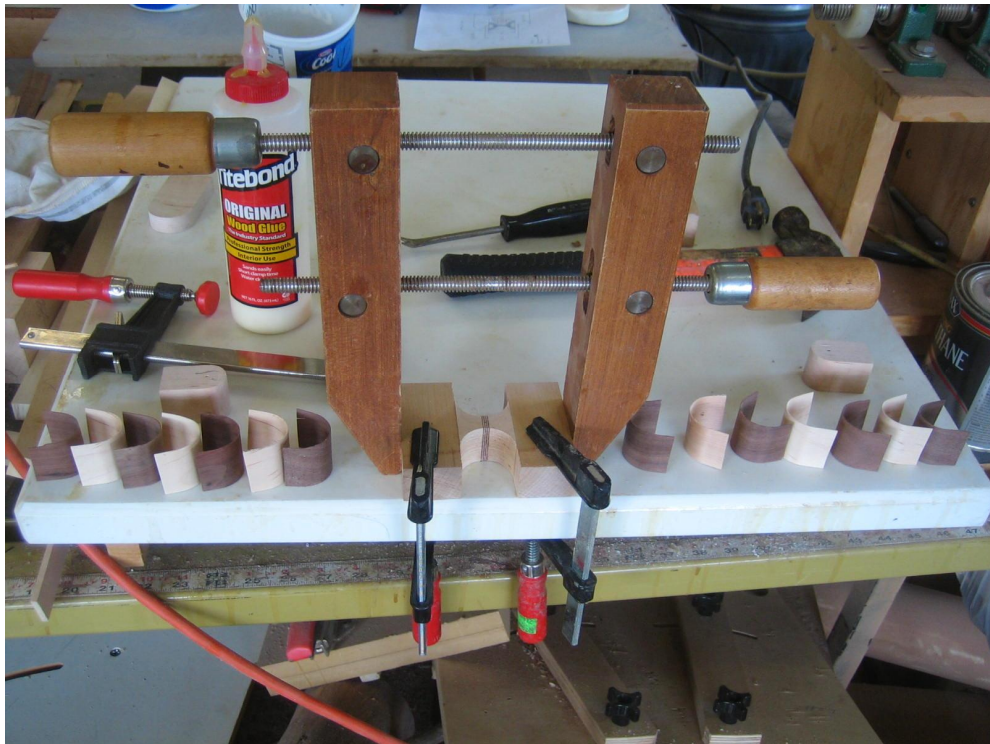
Pre-forming the 7 thin strips because the radius is too small to force the strips into the slot without breaking
The strips were soaked in water for a few minutes



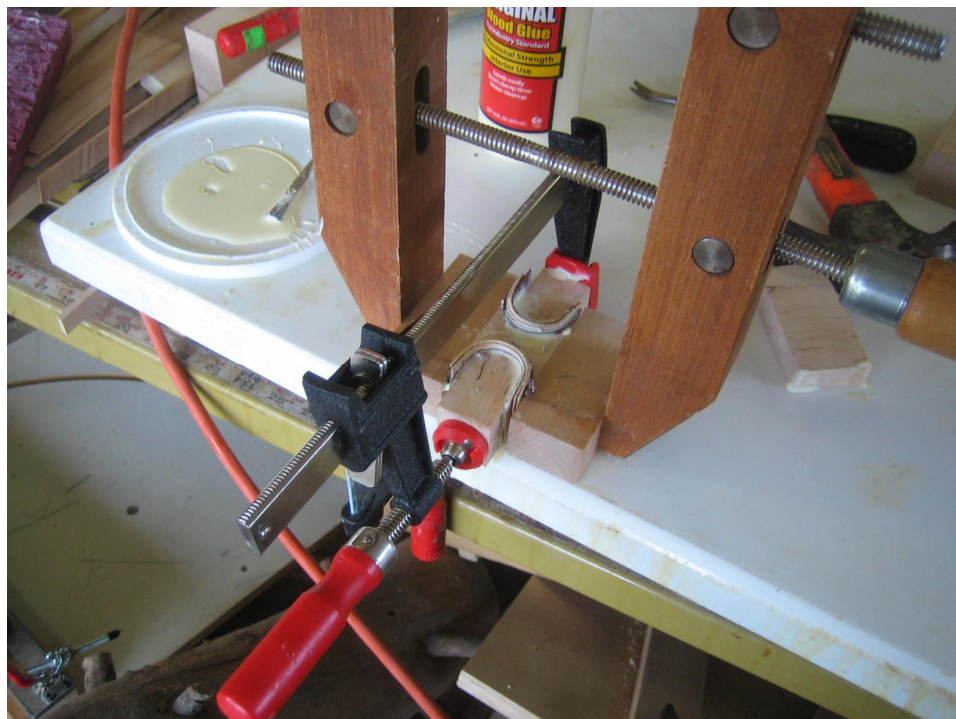
Drying the strips some before removing them from the fixture



Strips Temporarily in place for finish drying



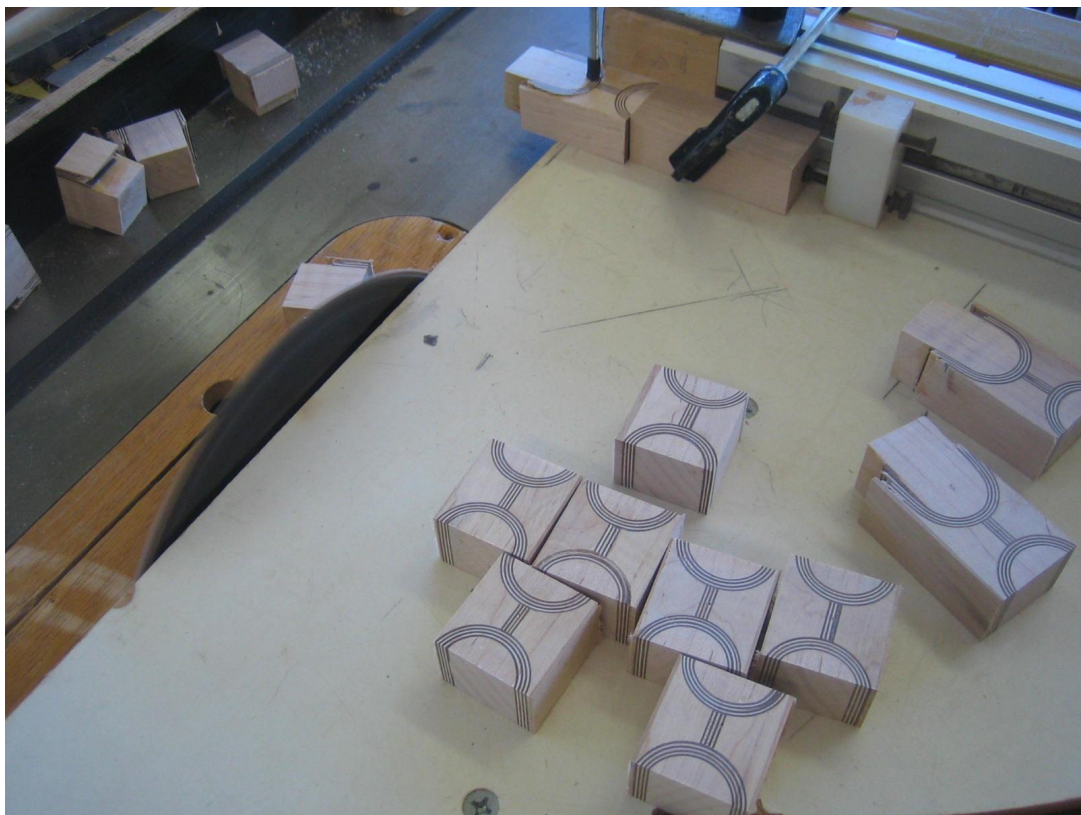
Pre formed strips ready to be glued into slotted block



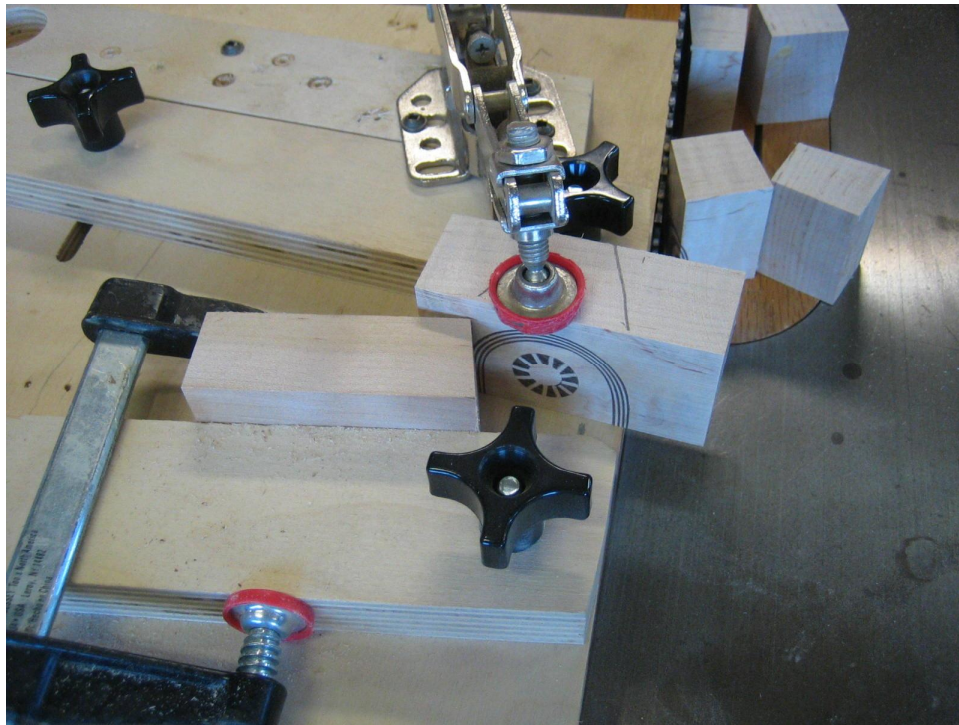
Strips glued in place. Wooden Clamp is used to keep block from splitting in the middle.



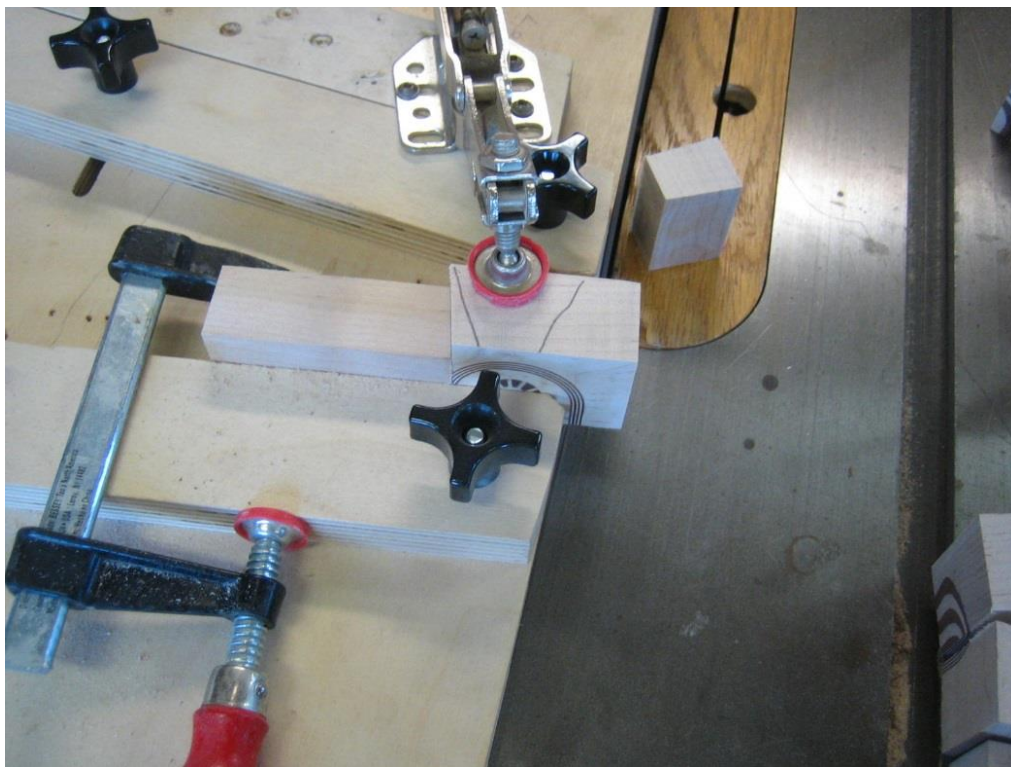
Blocks glued up sanded and trimmed to width



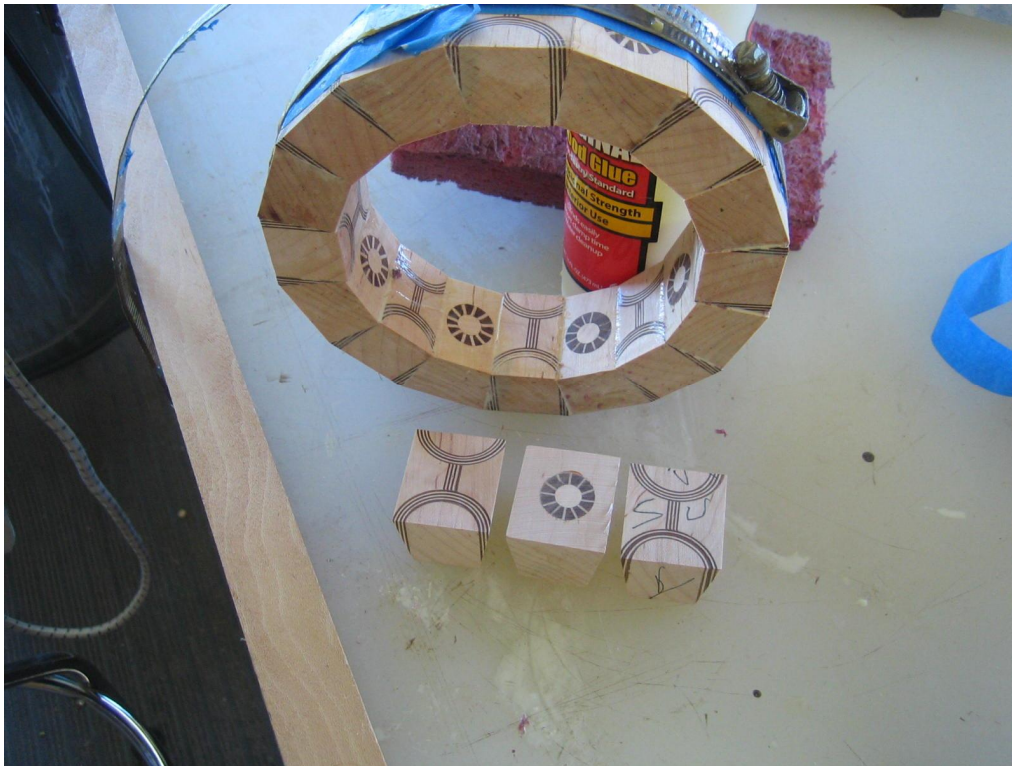
Cutting blocks to height



Cutting Segment first miters for lower ring on my Seg-Easy Sled



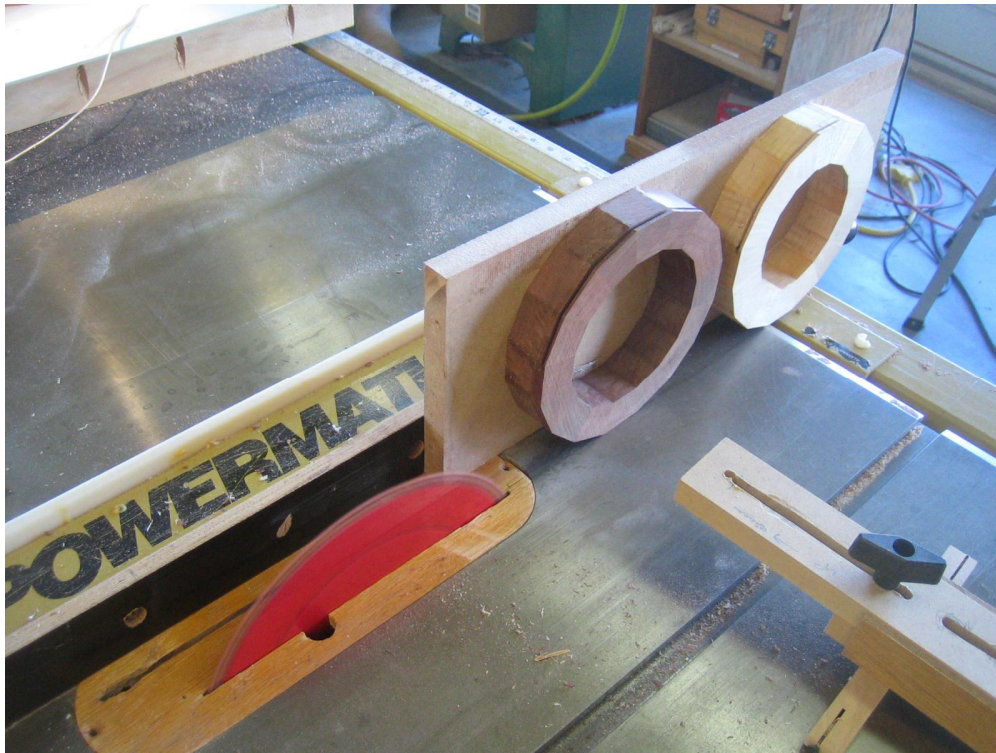
Making second miter cut



Neck ring segments glued into ring



Various size rings glued up for the different divider rings. These will be cut into thinner rings on the table saw



Slicing of the thinner rings. They are double backed taper to a fence board I flip and cut from both sides. The larger rings can be split without the backer board because your hands do not need to be in harmø way.



The full assembly double backed tape in 3 places and turned to final shape I hung the full size sketch in the back to use as a bit of a guide



3 Joints marked for reference when doing the final glue up



4 Sections separated after outside shape is turned



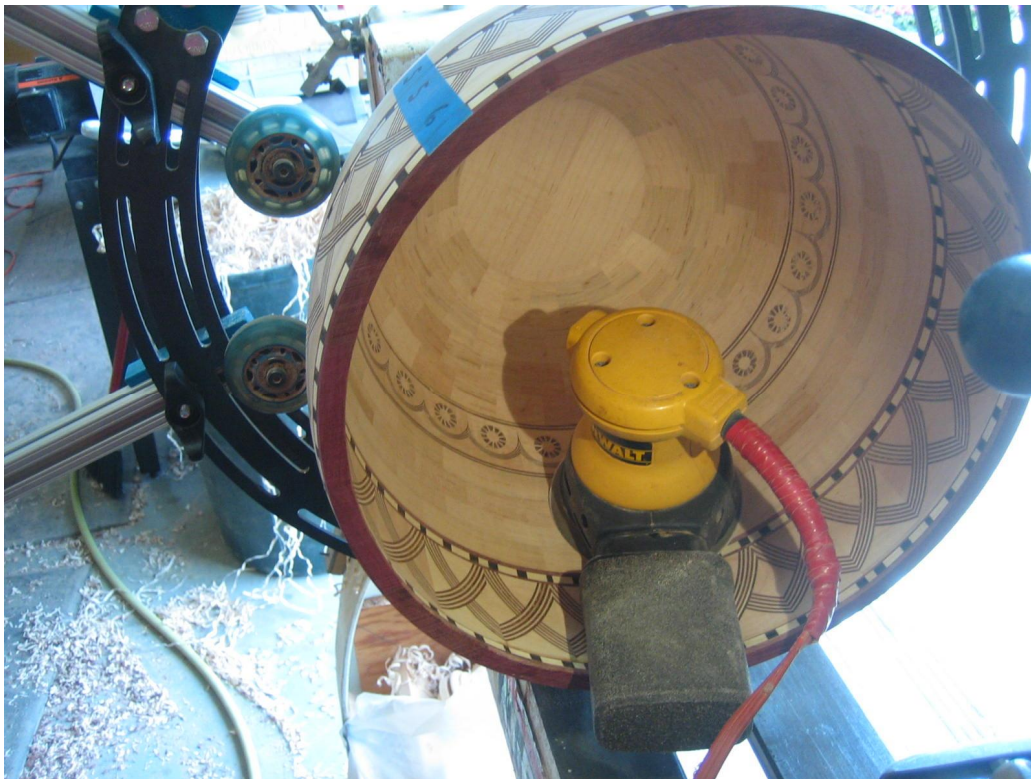
Top Section turned inside. Face plate and waste block still attached



Bottom section with floating bottom and feature ring glued up for final inside turning



Doing final inside turning on lower half using steady rest for support



Sanding inside lower half



Lower half sanded and finished with poly



Top halve finished and handles rough fitted



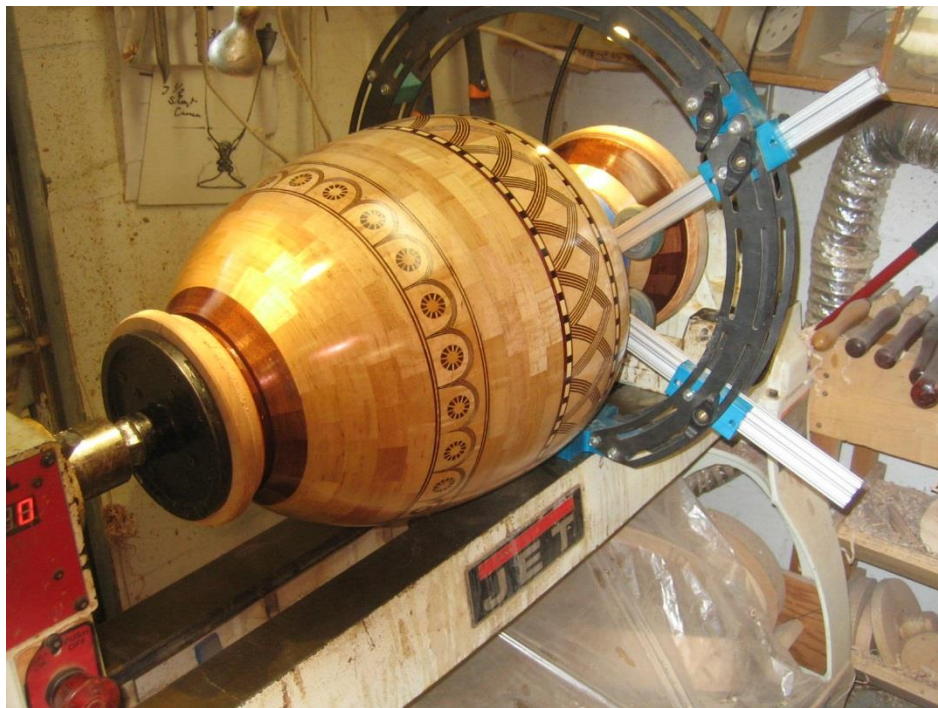
Full assembly glued up



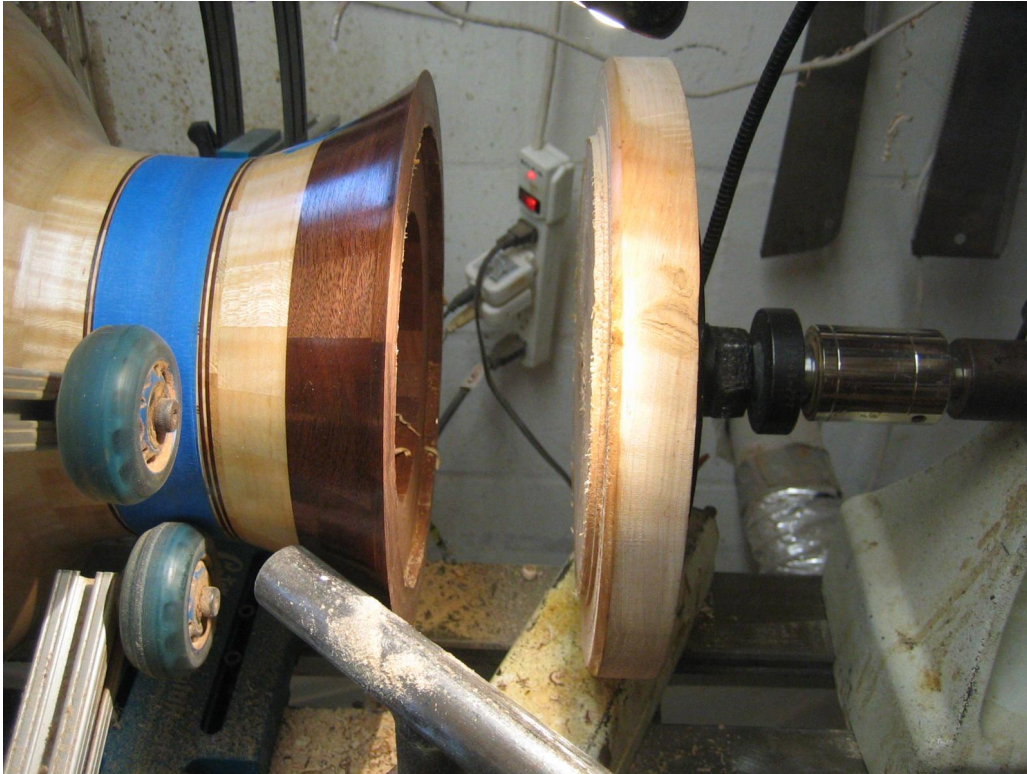
Full assembly on lathe and finish turned and sanded



Final fitting of handles using sticky back sandpaper stuck to vessel and a platform made to fit into tool rest then turning lathe on and lightly pushing handle into position. The final step was to massage the handle into the vessel and turning vessel back and forth by hand to stay on the one piece of sandpaper.



With Mating areas for the handles masked off I finished the vessel with many coats of sanding sealer and several coats of poly wiped after each coat.



Using a Steady-rest I parted of the top waste block and finish turned the inside of the top section that I couldn't reach in the earlier inside turning.



Top inside turned and finished



Vessel mounted on my Slow turner and several final coats of poly applied.



Another Look



I used epoxy to put the handles on doing one at a time and masking the area around the handle to make clean up easier



I used large heavy duty Rubber bands to hold the handles in place while the epoxy dried.