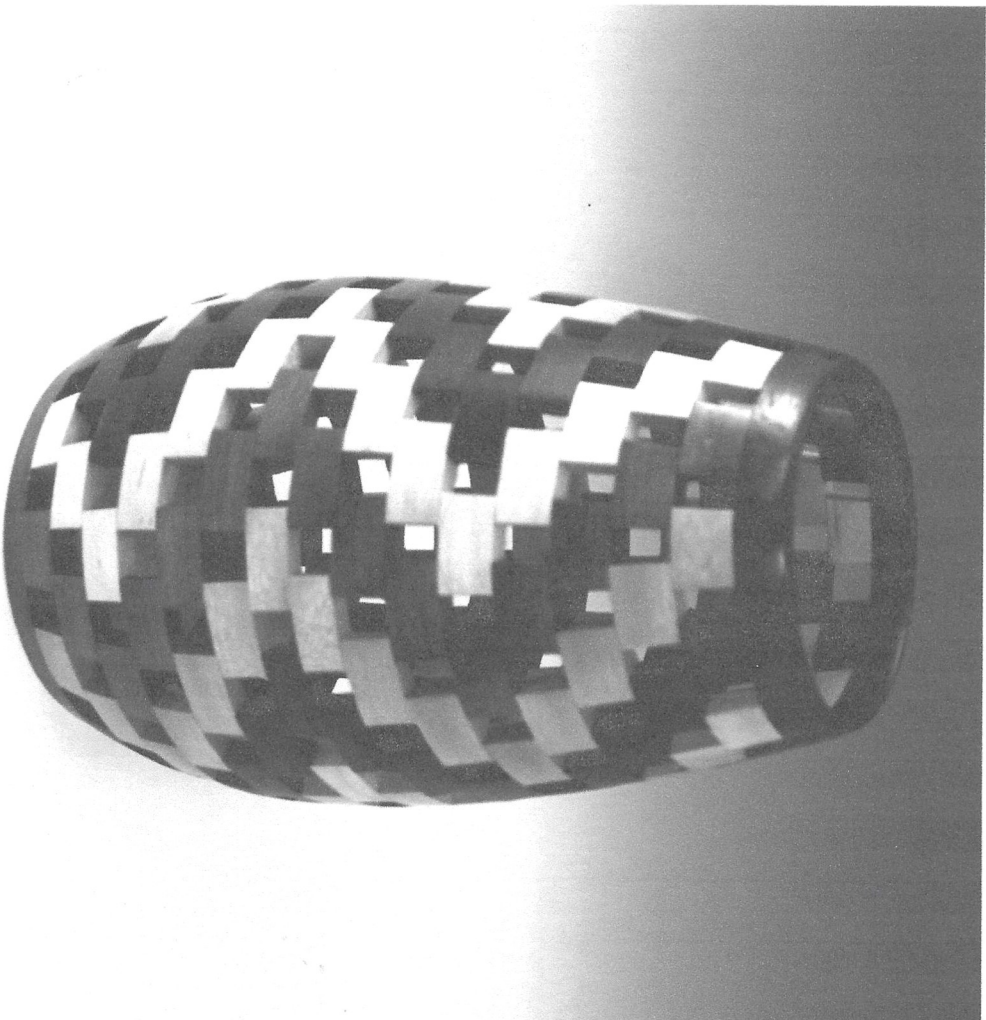
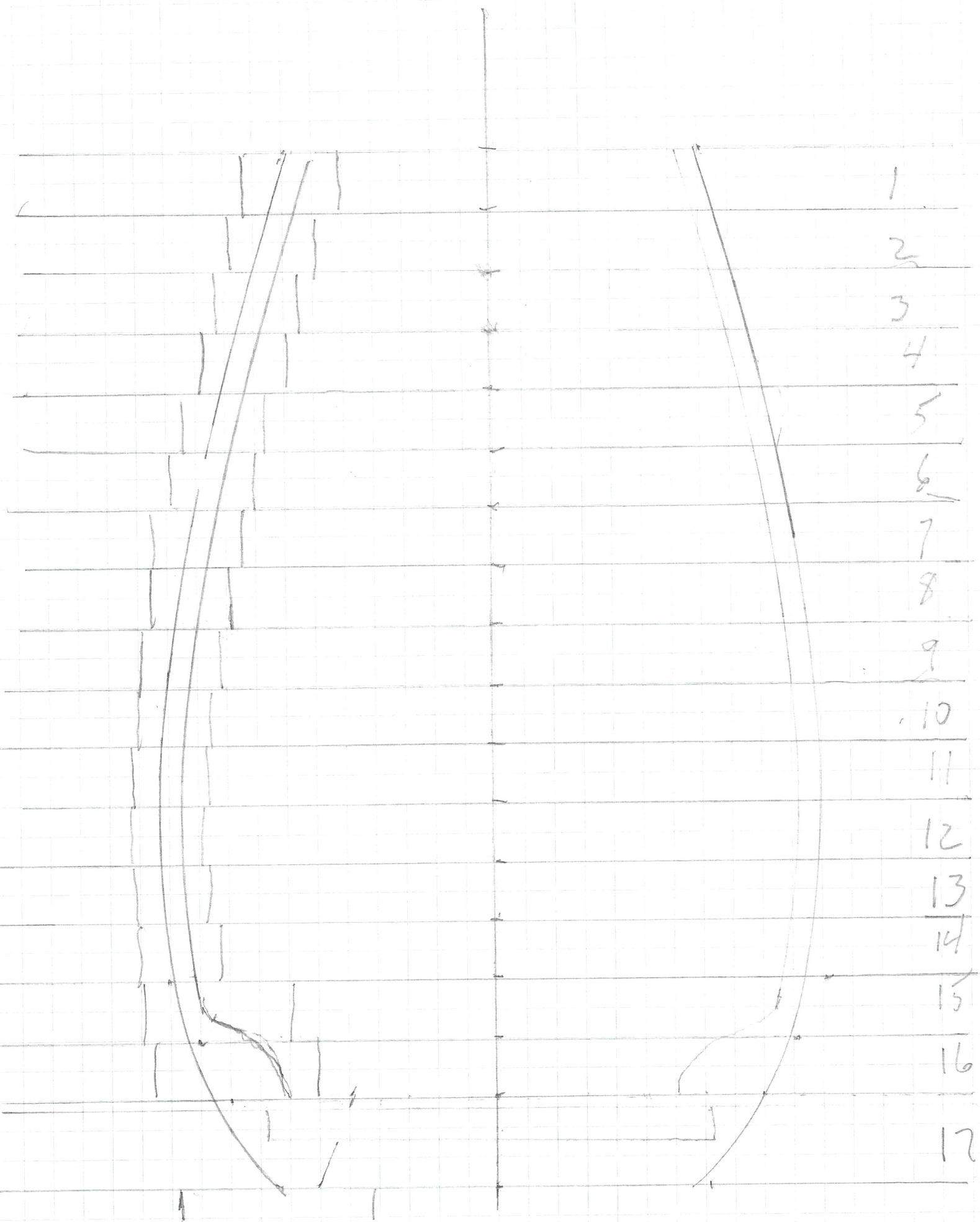


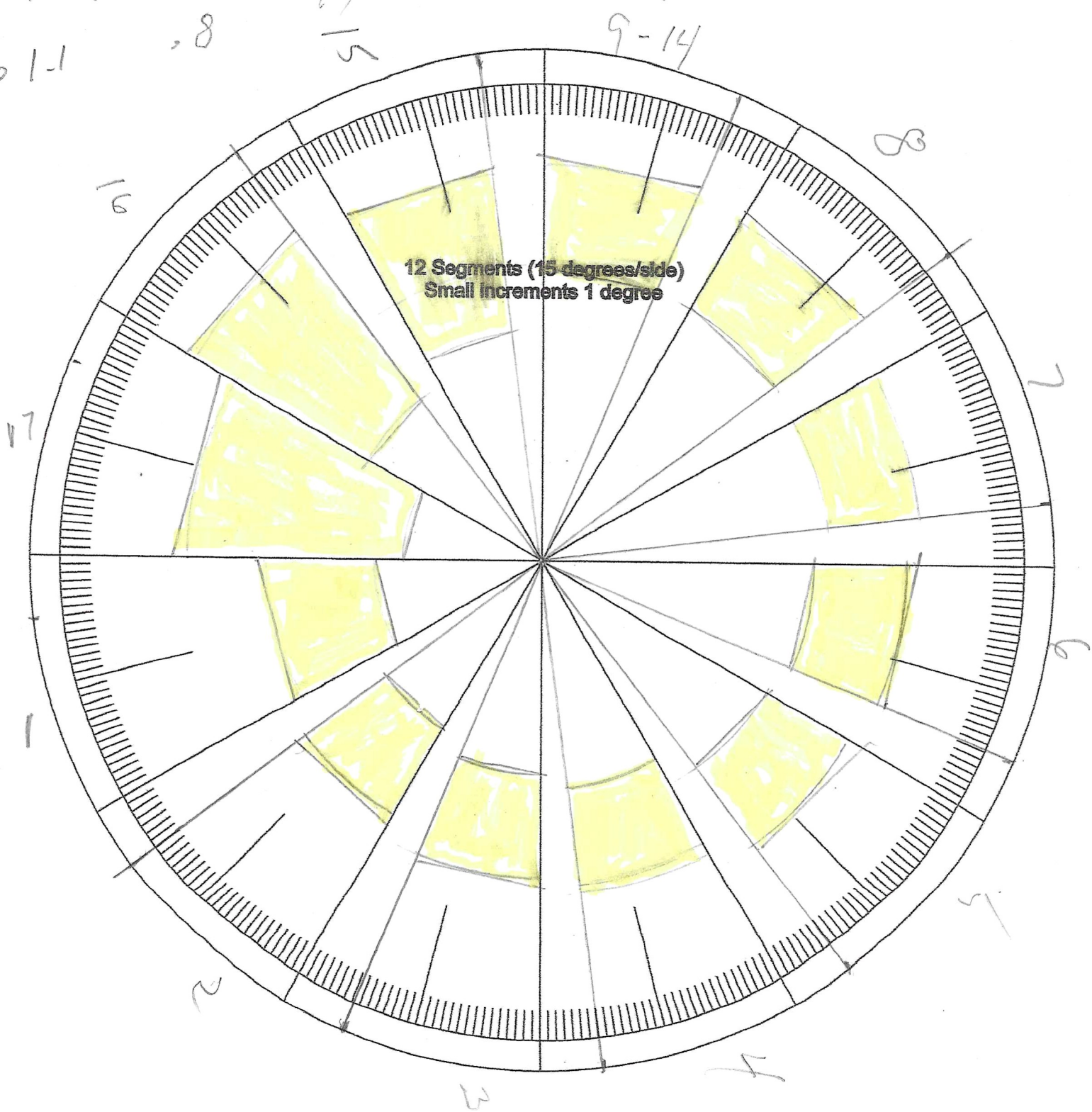
# Open Segment Construction



return

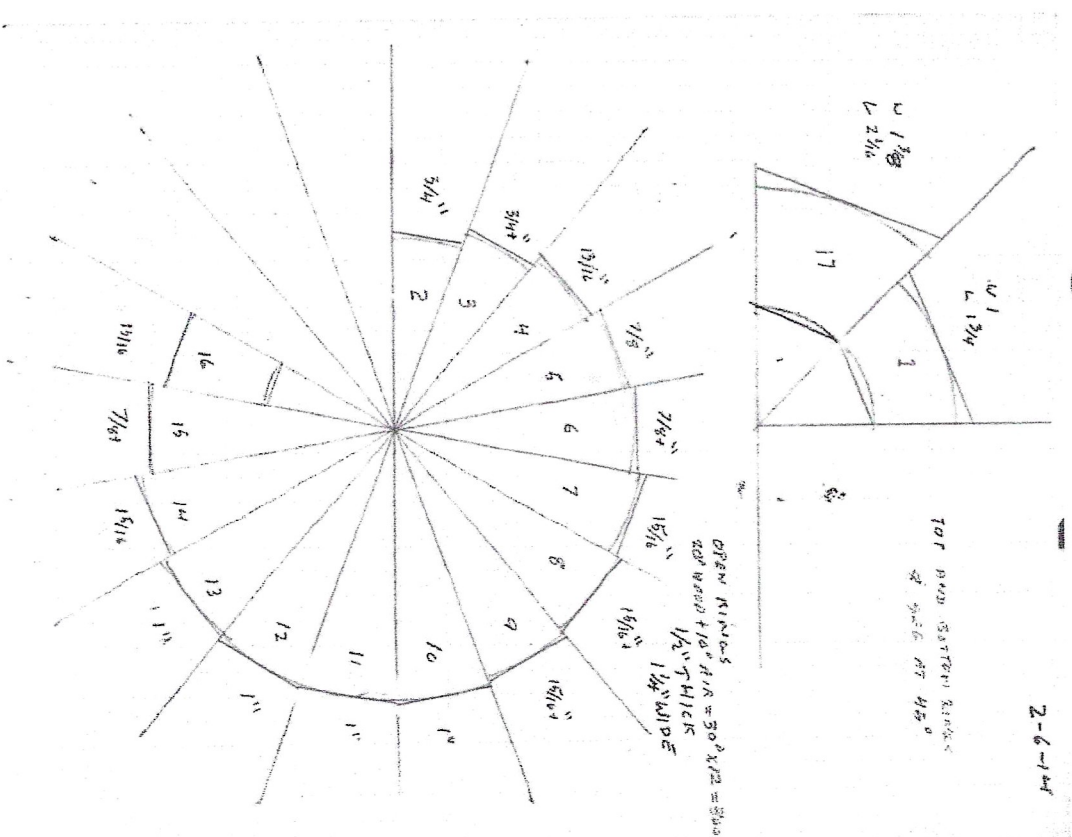
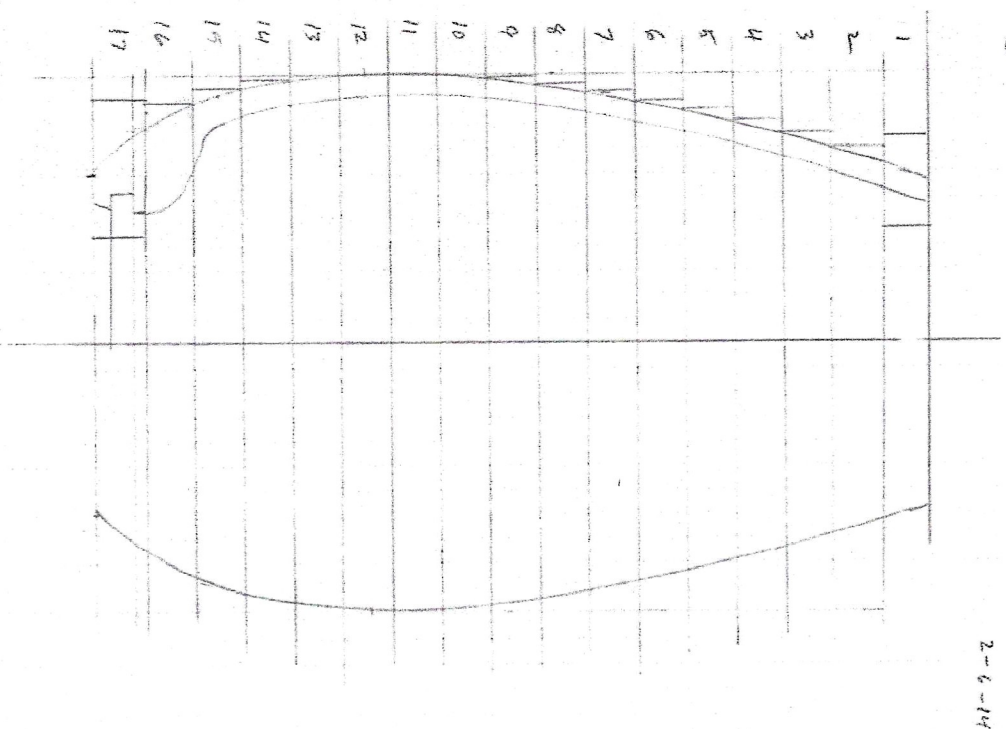


1 1.1 .86  
 2 .89 .8  
 3 .95 .8  
 4 .98 .84  
 5 1.04 .8  
 6 1.1 .8  
 7 1.1 .8  
 8 1.16 .8  
 9-14 1.19 .86  
 15 1.19 1.16  
 16 1.15 1.5  
 17 1.36 1.7  
 3 3.4 X 4





# Layout Profile and Segment Map

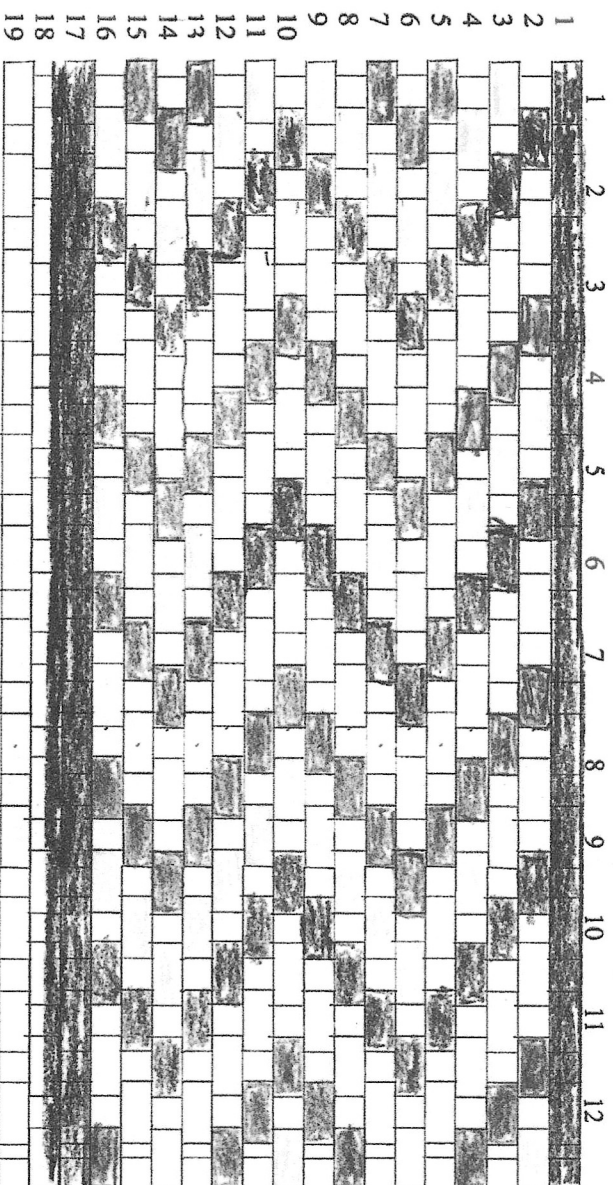


return



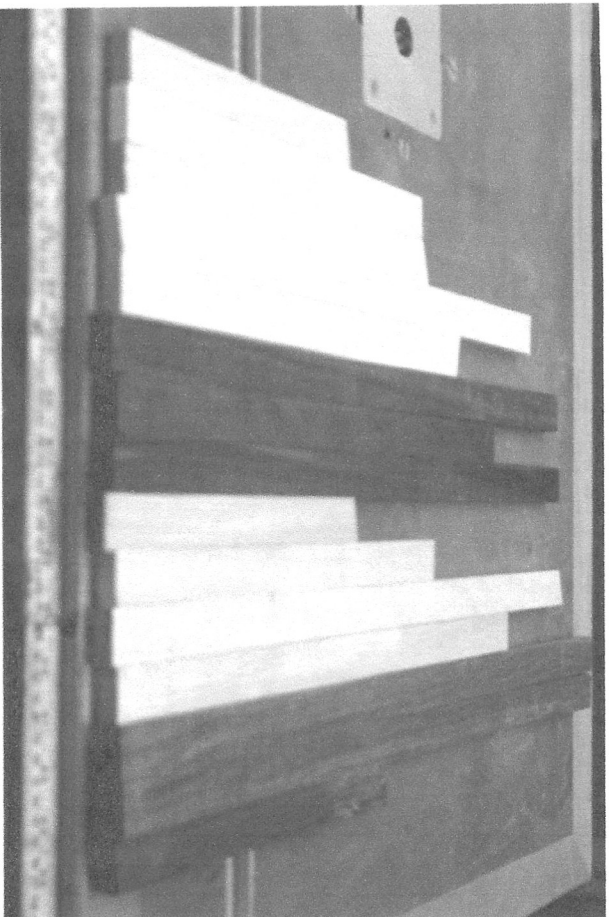
# Layout Design for 12 Segment Construction

OPEN SEGMENT LAYOUT FORM

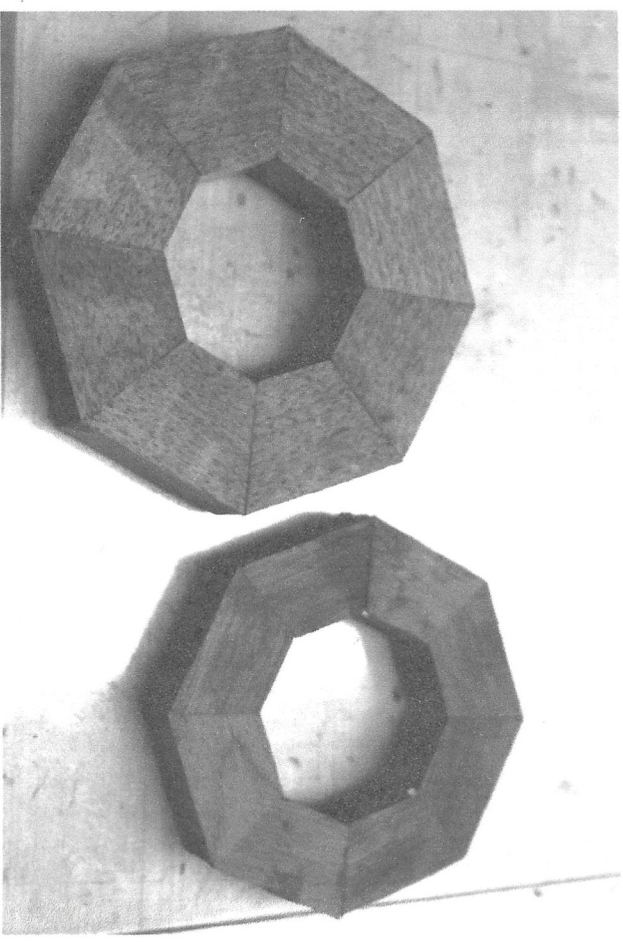


return

# Mill Material



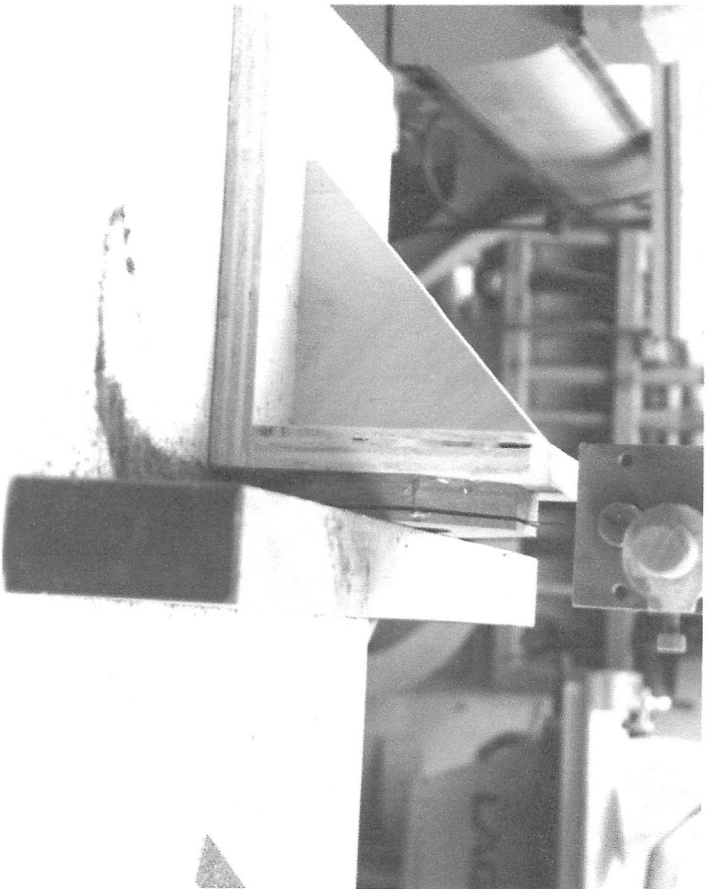
Material for open segment layers is milled to  $\frac{1}{2}$ " thick and  $1 \frac{1}{4}$ " wide



Top and bottom rings are from  $\frac{3}{4}$ " material and are 8 segment construction

return

# Prepare Bottom Ring and Open Segments



A thin slice is cut off the bottom ring to go on top of floating bottom

Open segments are cut at 10 deg on the miter saw for 12 segment construction

return

12 segments = 30 deg. – 10deg gap  
20 deg. Wood = 10 deg. cutting angle



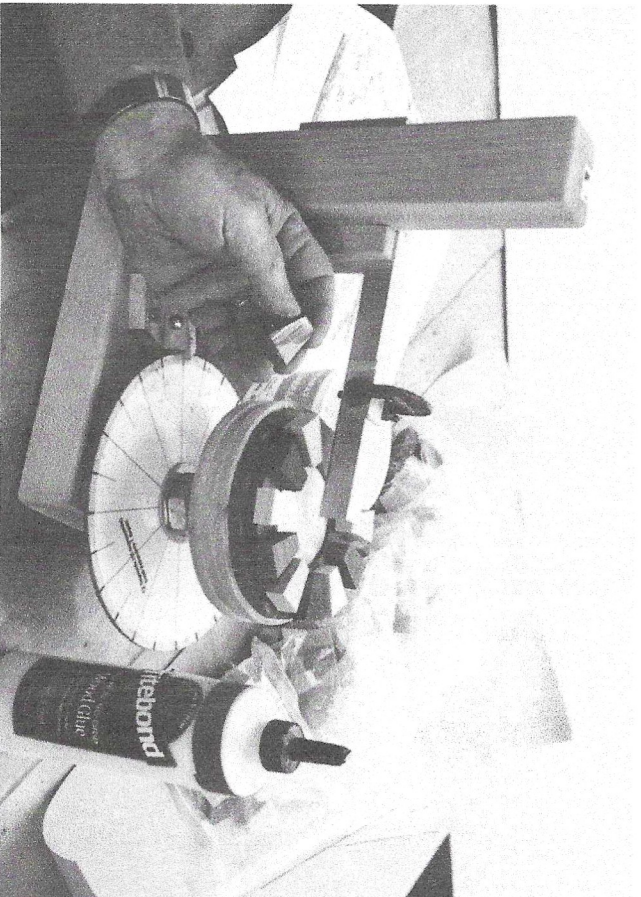
# Start Open Segment Assembly

## First layer

Follow design layout for segment color order.

Set stop to radius of layer and lock wheel to required index line.

Use a fast tack molding and trim glue.



Apply glue to full  
surface of segment

Position segment to  
arm and stop

return

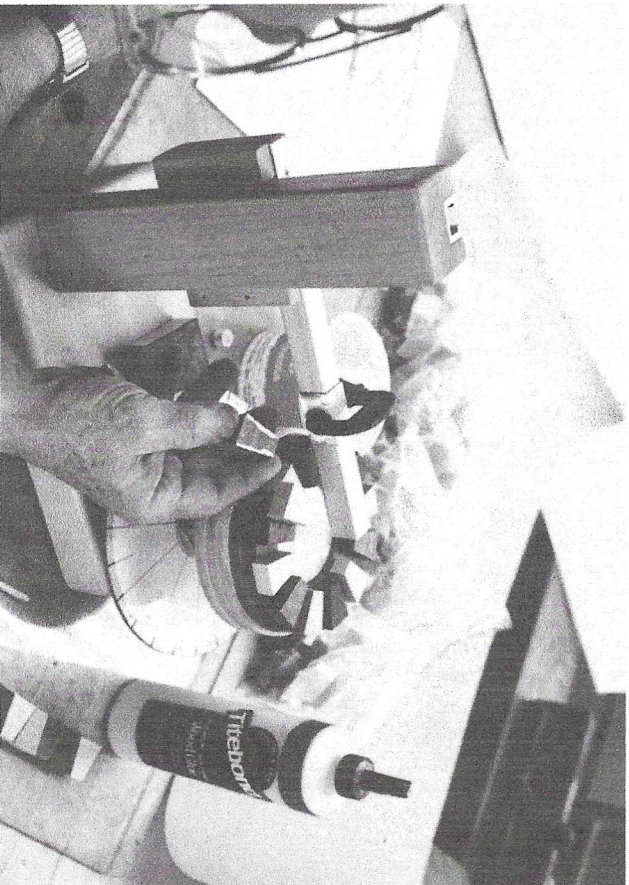


# Continue Assembly

## After first layer

Follow design layout for segment color order and offset.

Set stop to radius of layer and lock wheel to required index line.



Apply glue along edge of segment

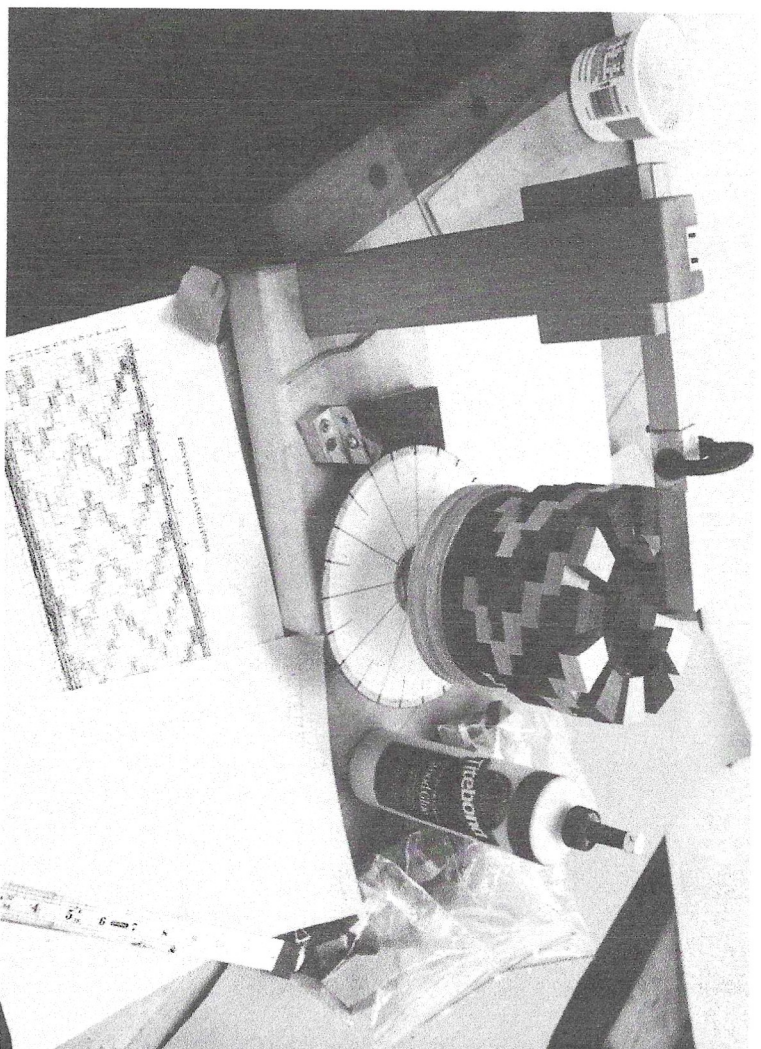


Set segment to arm and stop

return



# Complete Assembly of Bottom Half

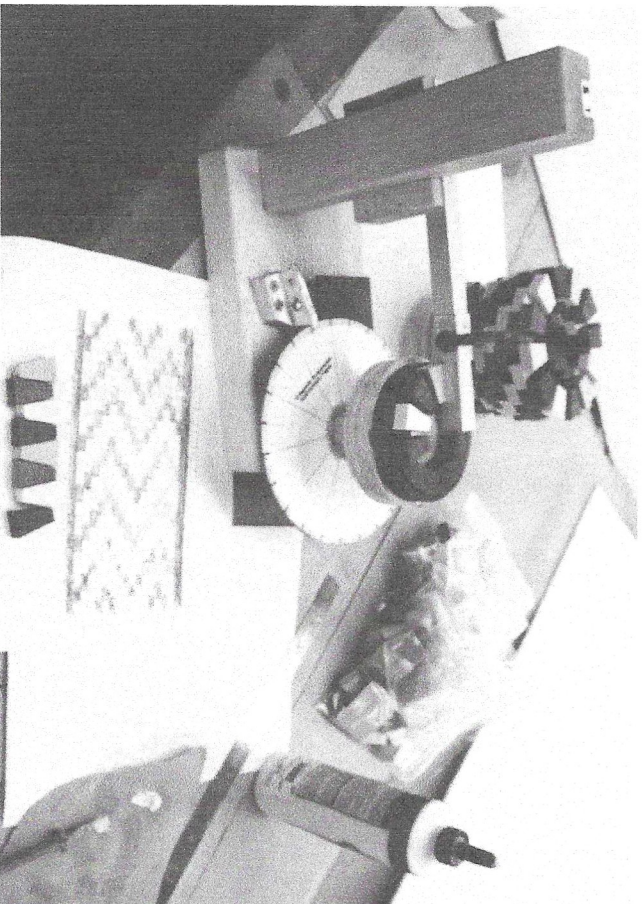


Note design layout and profile layout used with scale

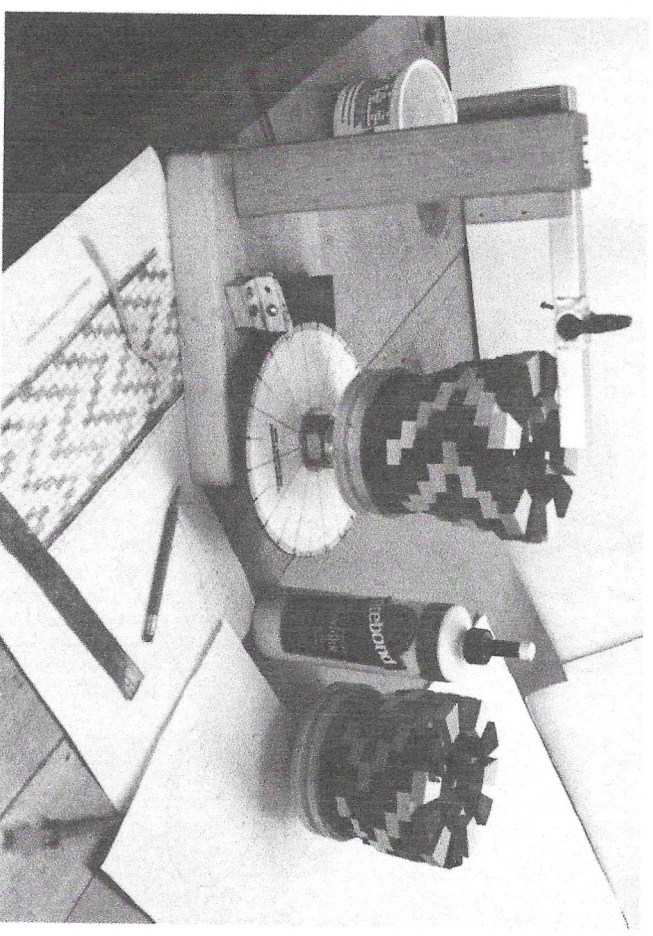
return



# Continue Process on Top Half



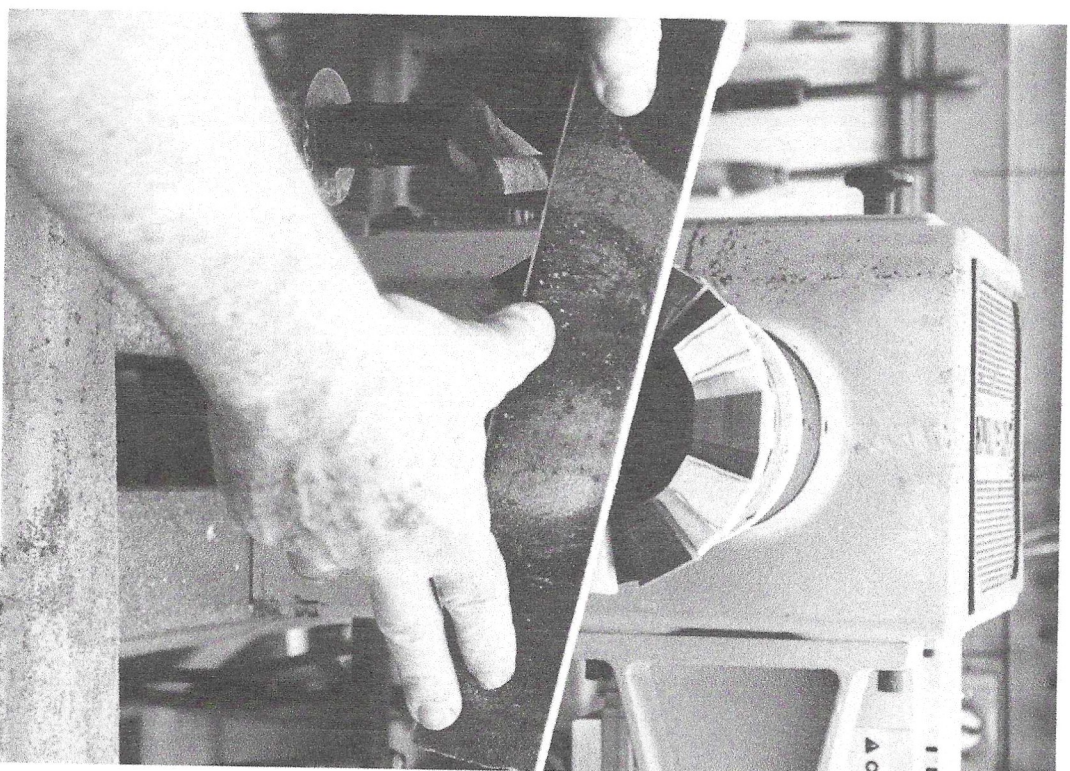
Start top half taking care  
that segments color order  
and offset are correct



Continue building following  
layout of color order and offset

return

# Flatten Each Half

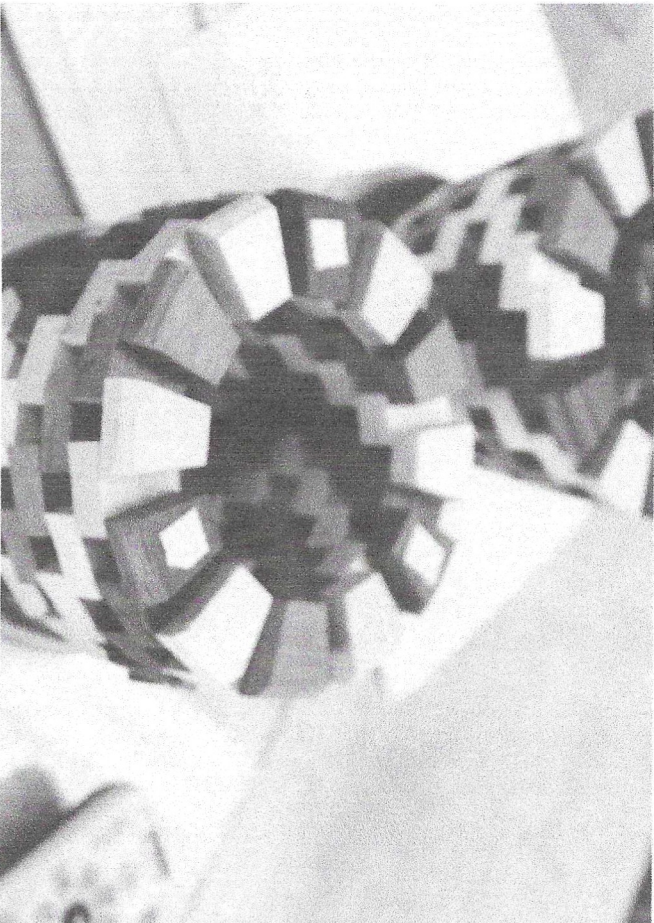


Note pencil marks  
to verify flatness

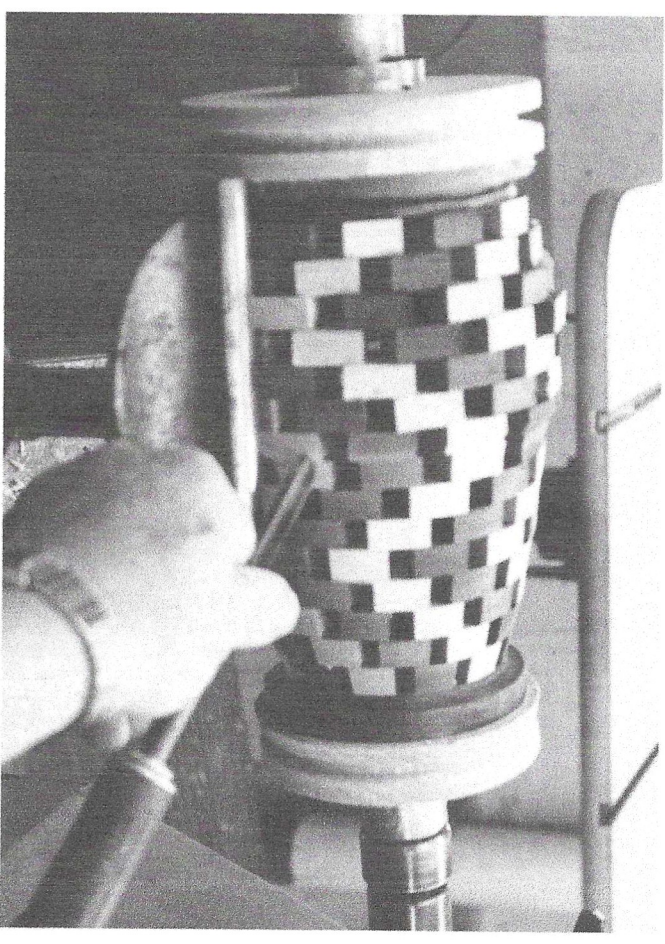
return



# Turn Outside Shape



Use three small strips of  
double back tape to prevent  
slippage

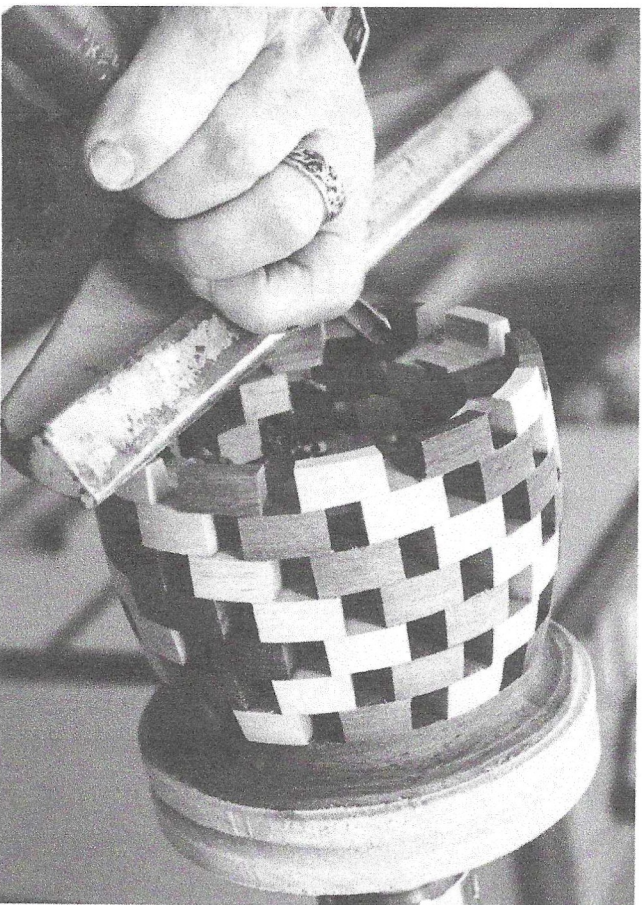


Bring the two halves together  
between centers and turn until  
no flats are present then adjust  
shape for a smooth curve

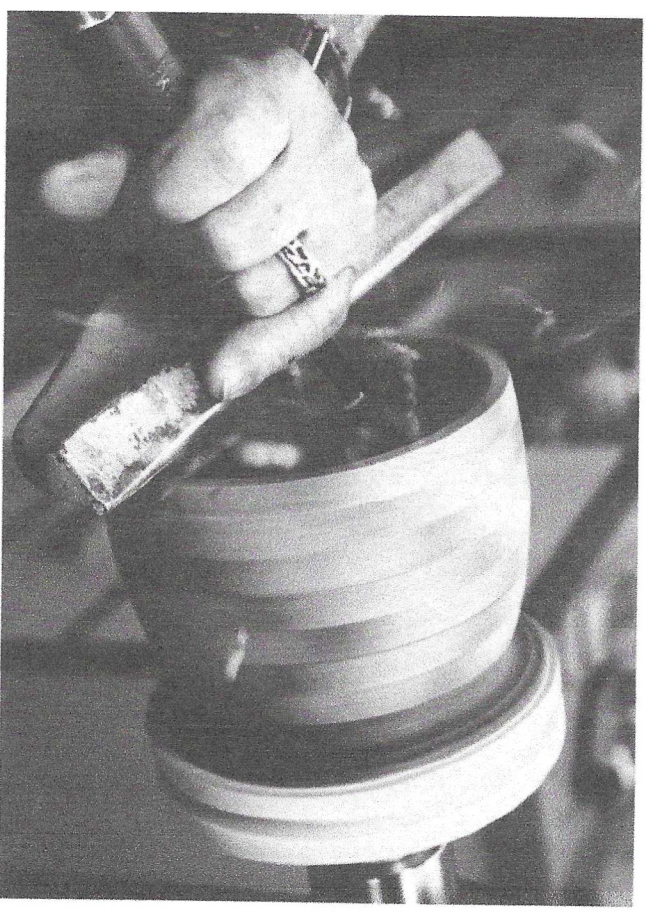
return



# Turn the Inside



Turn inside one layer at a time  
to final thickness

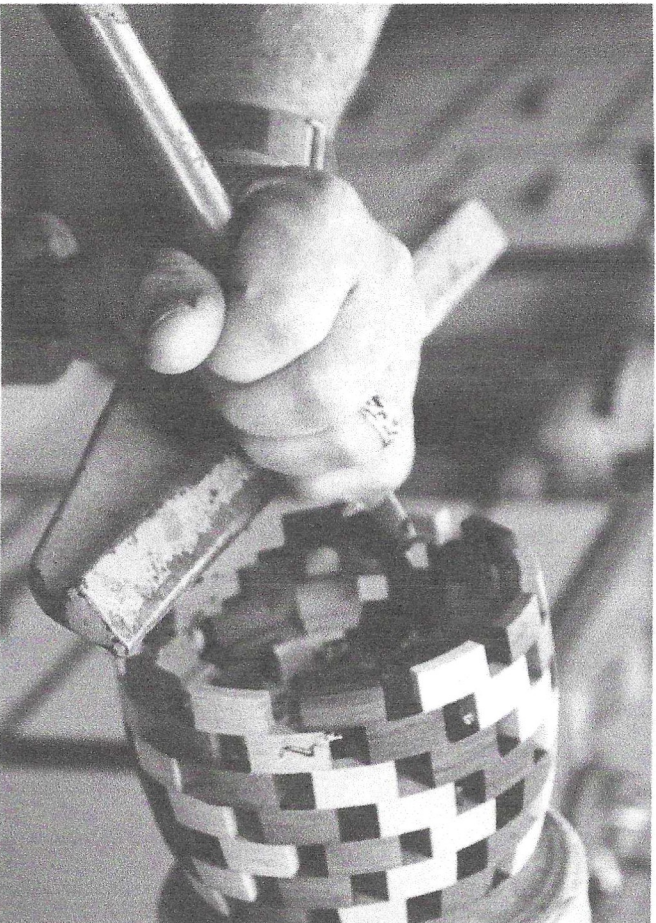


Continue for 3 or 4 layers with  
small bowl gouge

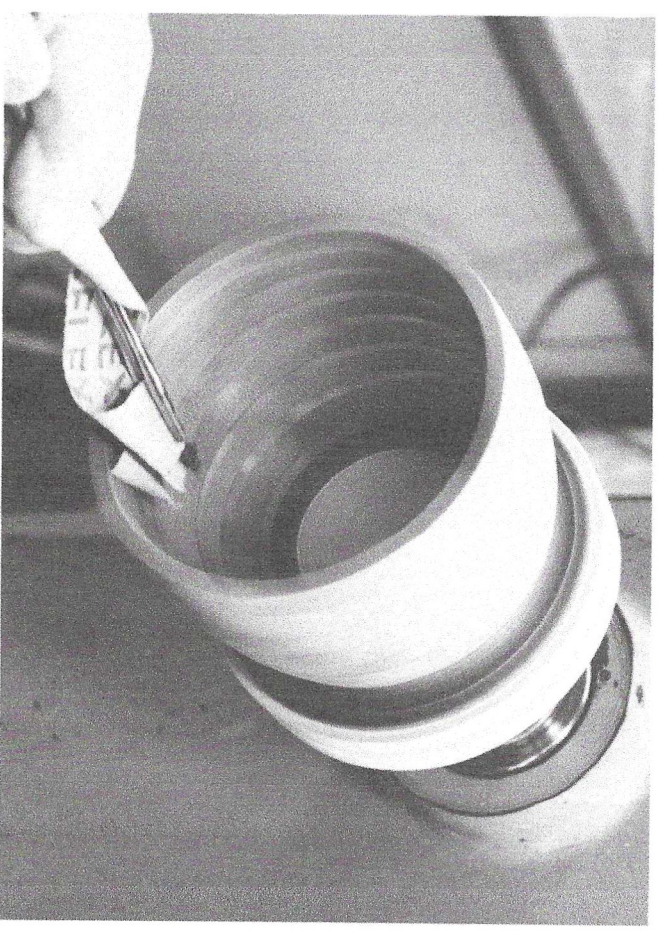
return



# Continue Inside Turning



When reach is too long for bowl  
gouge use a boring bar

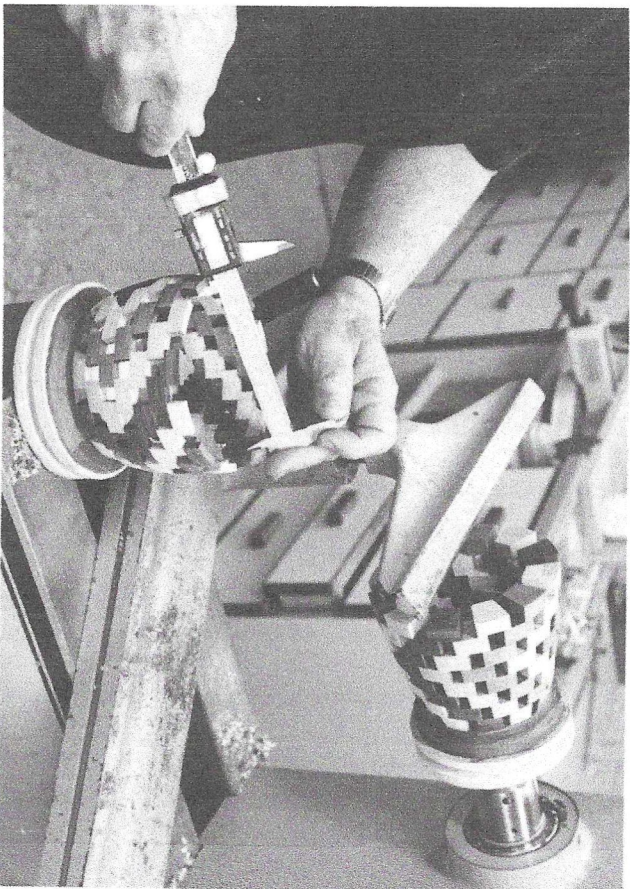


Sand the inside using forceps to  
keep hands safe

return



# Turn Inside of Second Half



Set calipers to inside of first half

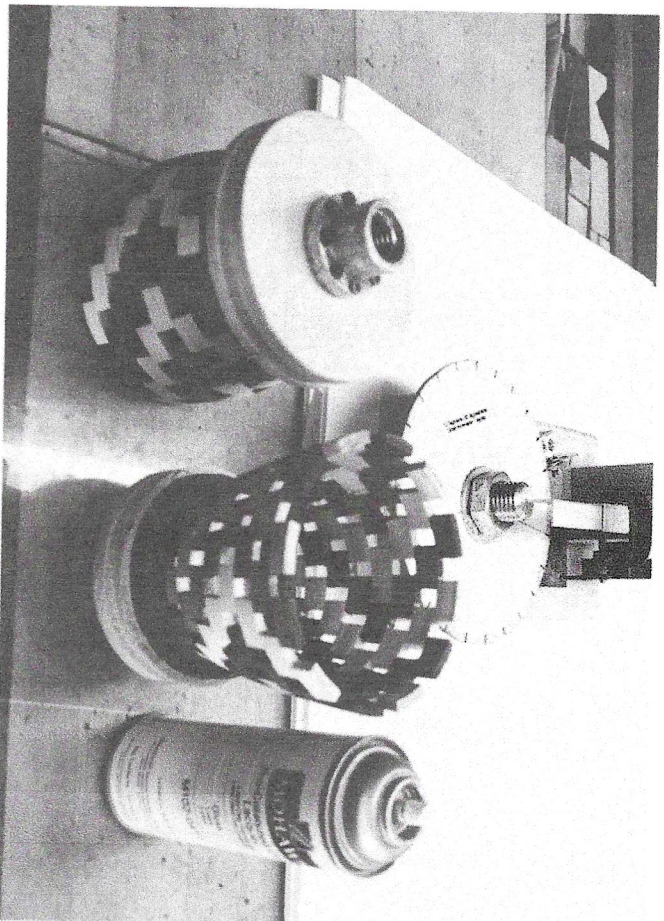


Turn inside of second half  
to match the first half

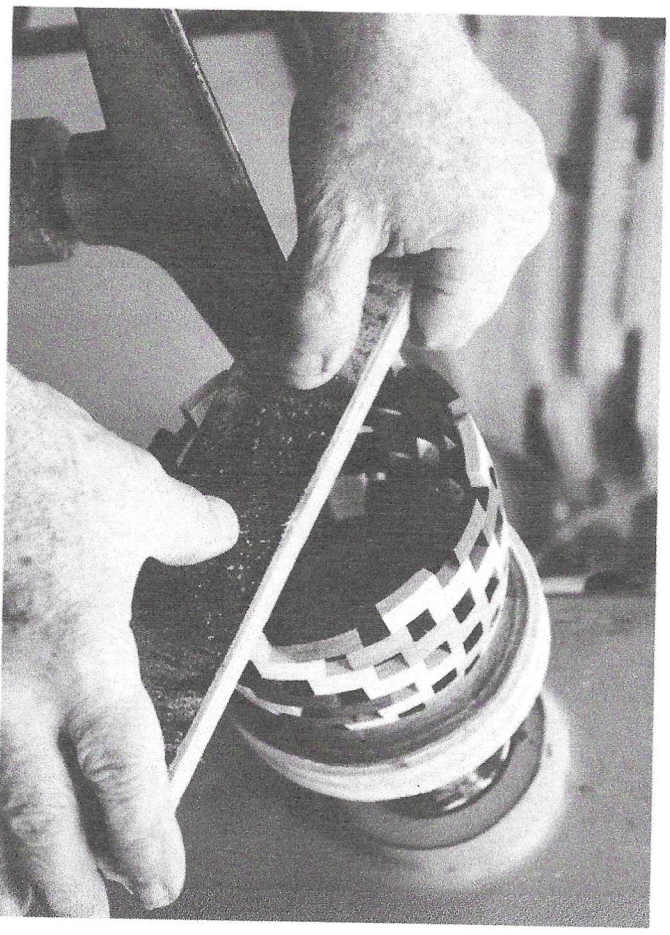
return



# Prepare To Join the Halves



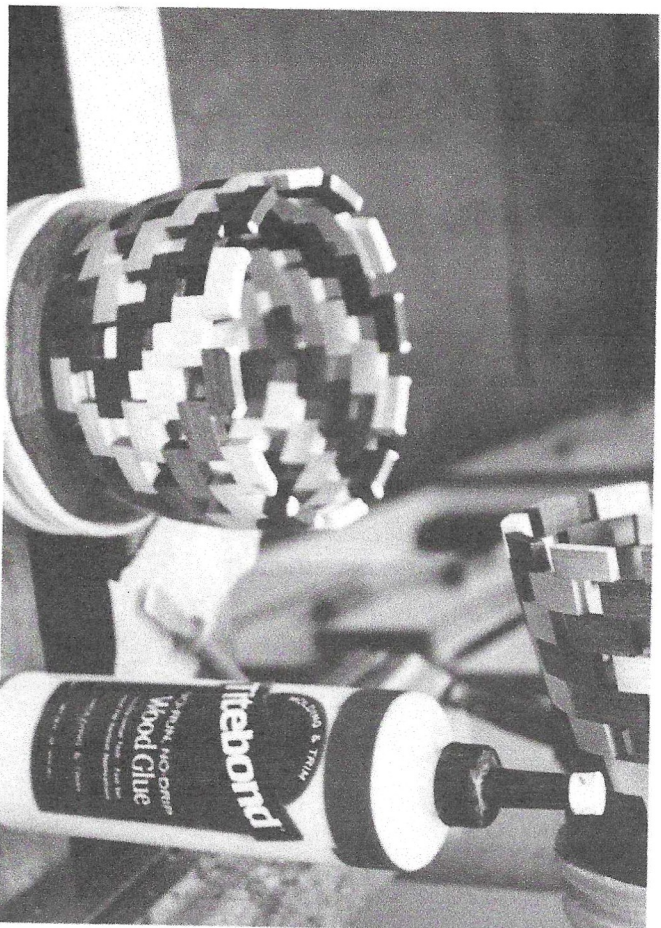
Spray 2 coats of lacquer on the inside of each half



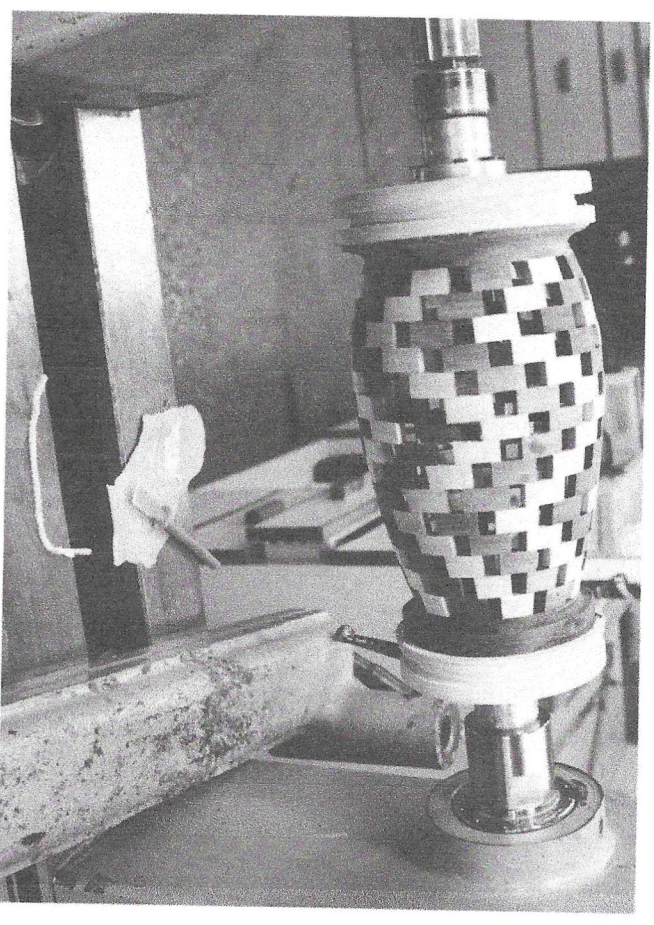
When lacquer has dried, sand mating surfaces before joining the halves



# Join the Halves



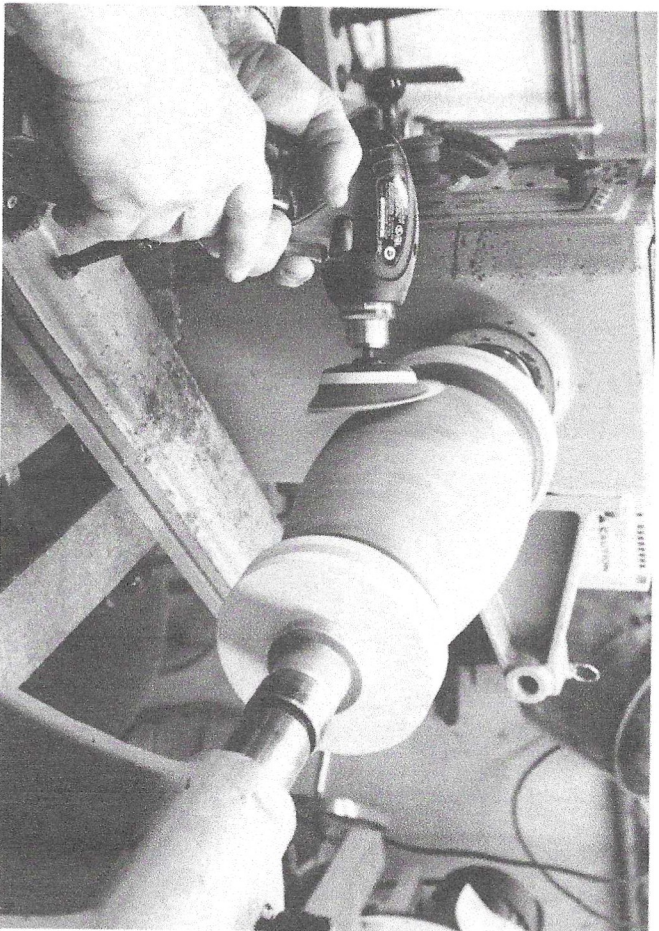
Apply a dab of glue to the corner  
of each segment



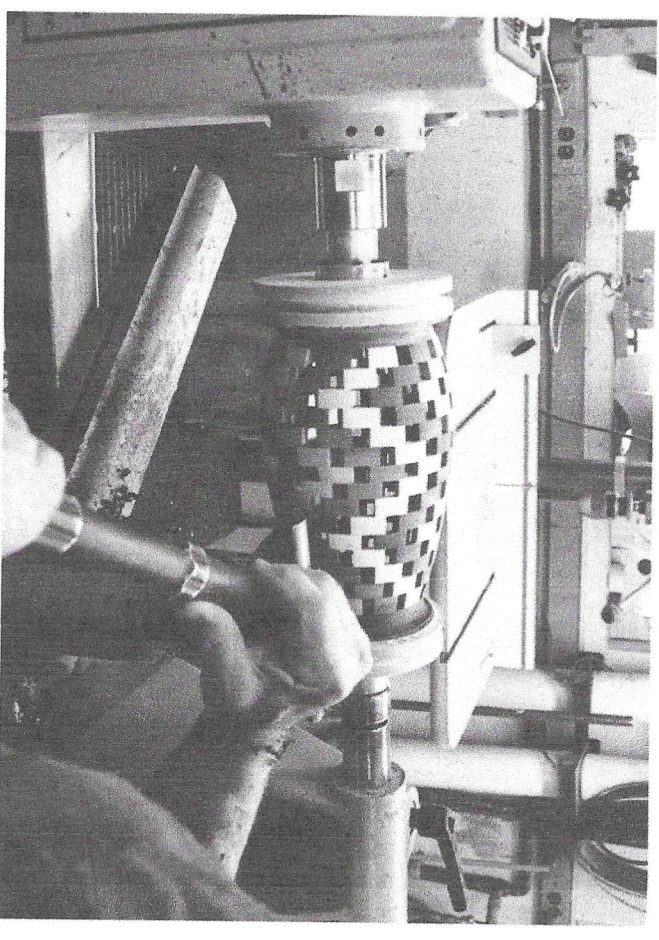
Join the 2 halves between centers  
making sure the design aligns as  
drawn



# Continue Process

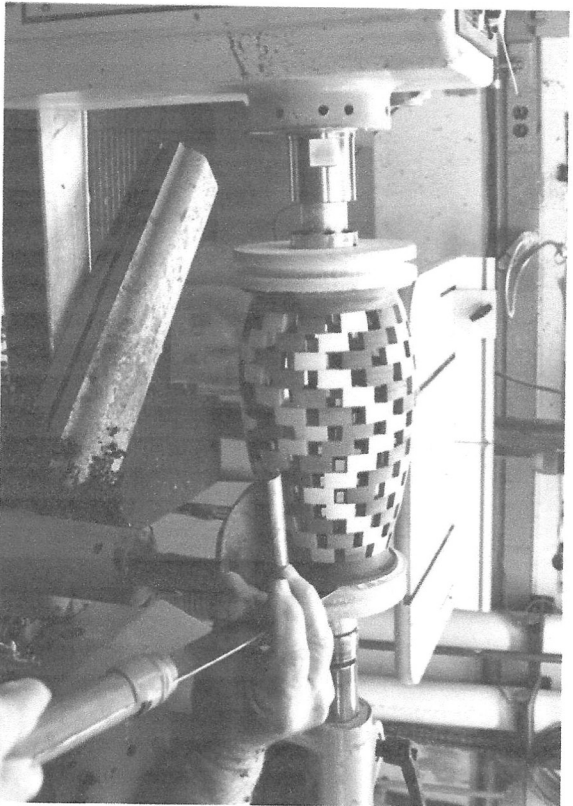


Sand joint area

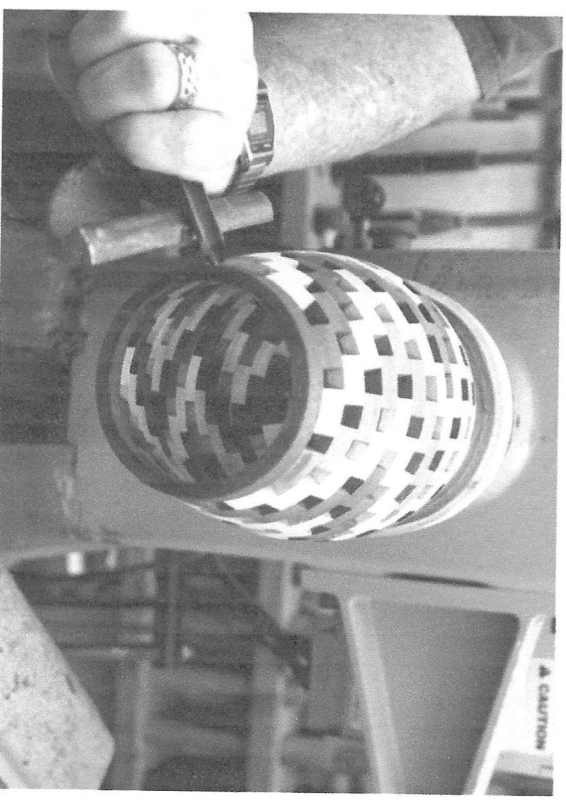


Finish turning top ring

# Part off Top



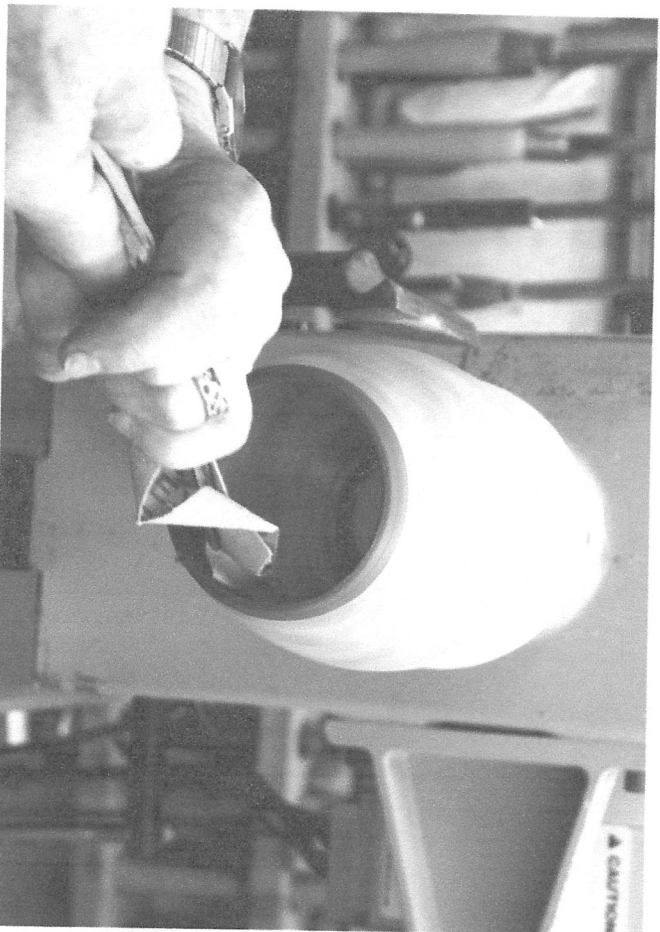
Part off top waste block



Final shaping of top lip with care



# Final Sanding



Sand inside of top lip



Final outside sanding

# Parting Off



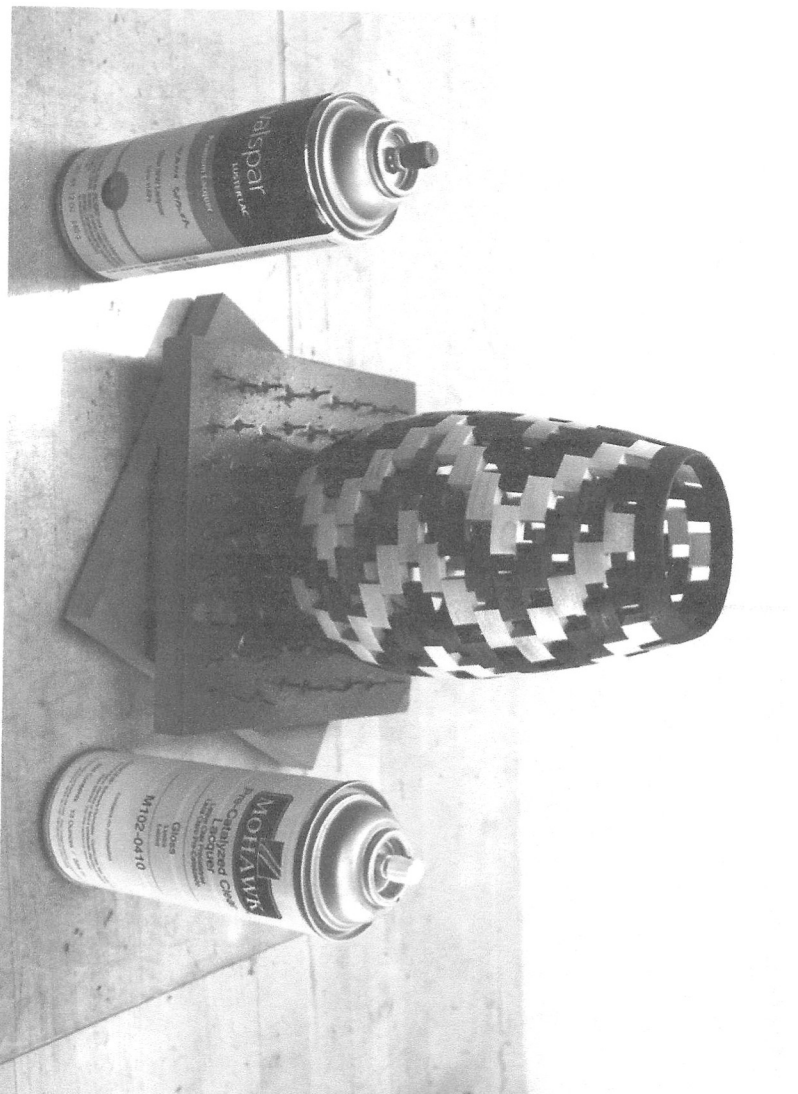
Use catch box to catch vessel  
when parting off



Hand sand bottom



# Apply Finish



Done

return