

Spiral Platter Project by Joe Kerrawn

The design for my Spiral Platter Project was inspired by some patterns found in a Spiral Quilting book by RaNae Merrill.

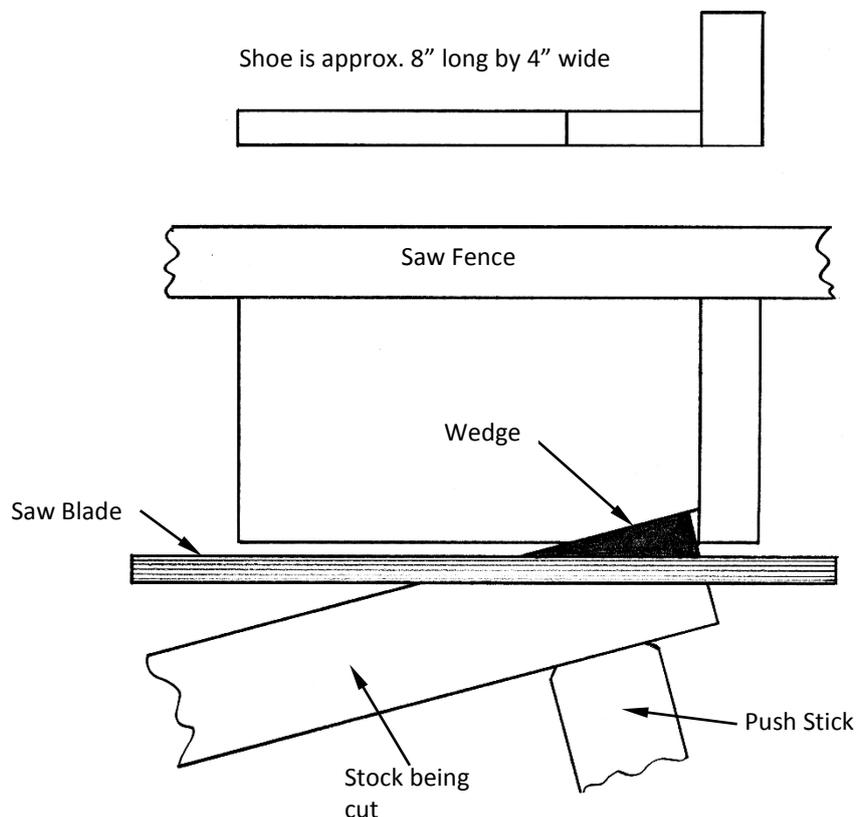
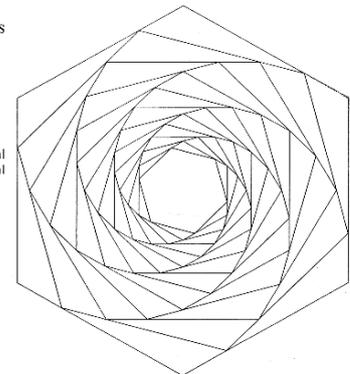
The technique described for setting out the measurements, did not suit how I wanted to work – so I checked the angles involved and decided that 15 degrees was optimum.

The central core does not have to be perfectly hexagonal as each wedge is cut to be longer, to allow for it to be re-cut after gluing to follow the correct angle for the next wedge. All of the pieces/ wedges are straight sided and were cut on a circular saw. The initial material thickness was 40 mm (1.6 inches). Each wedge must be clamped after the glue grabs – to prevent slippage, use extra wedges flipped over. To aid clamping, cut off the excess on the 'thick end' of wedges when the glue had dried (usually overnight). There are around 11 'rings' of wedges – each ring was allowed to dry overnight – before adding the next ring.

A shoe was constructed to hold the timber for cutting on the circular saw. Calculate the width of stock for each piece, then move the saw fence away from the blade by approx. ¼" –to increase the width to achieve extra length on the wedge - this allows for final sanding. Remember to 'dry fit' each piece prior to gluing – and only apply glue to the contact edges – saves glue (Titebond II adhesive was used).

Six-sided Spirals

Six-sided equilateral Nesting spiral



Once the platter had been constructed and the glue fully dried – the centre point was marked out. The platter was then held between centres so that a spigot mounting point could be turned. The finished size is approx. 11 inches across by 1 ¼ inches high. The finish applied was cellulose sanding sealer and several coats of Renaissance Wax.

Finished Result:

This was entered into the AWGB 2013 Show held in Loughborough, 9th – 11th August 2013

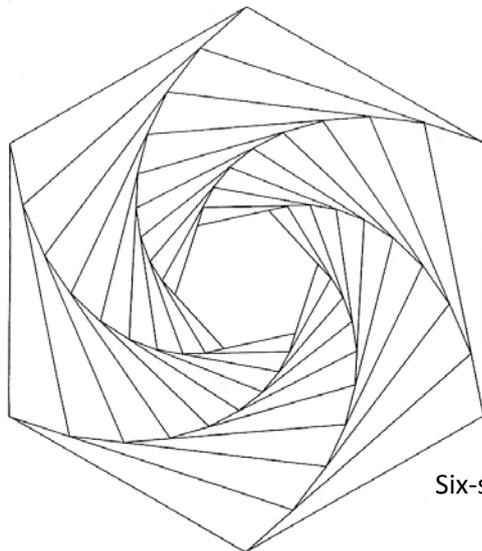
The timbers used are Sycamore and American Black Walnut.



Another example of Joe's segmented and turned work, also based on a quilt pattern – but this time adapted to have five sides. Timbers used are Sycamore, American Black Walnut and Laburnum.



A similar hexagonal design:



Six-sided equilateral pinwheel spiral