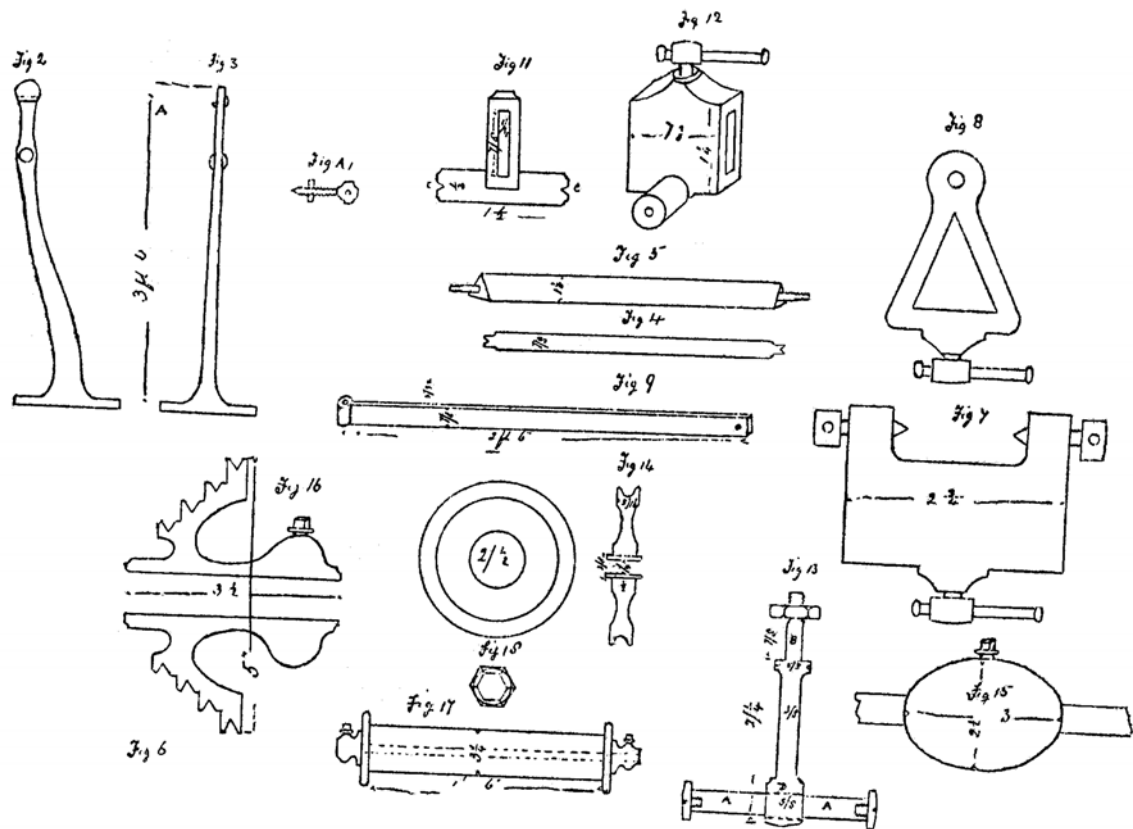


Q: What size is the Triangular Bar on an Evans Overhead?

A: The length of the triangular bar depends entirely upon the length of the lathe frame. Most Holtzapffel and Evans lathes are 42" long, but there are exceptions. In his articles in the English Mechanic magazine, Evans specified the triangular section as finished to 1.125" across the flats; this gives a height of about 0.975" so the bolt holes in the overhead standards should be drilled about 0.488" above the step. For safety the sharp edges then need to be filed off by about 0.010". To determine the length of the triangular bar, mount the overhead standards on the side frame members then measure the distance between the steps on which the triangular bar will rest. Add to this sufficient length to allow for the bolt ends by which the bar is to be clamped to the standards; then reduce the ends of the bar to form bolts of about 3/8" diameter, cut screw threads into each end and make nuts to fit.

One way of making the triangular bar is to start with hexagonal stock as this may be more easily clamped firmly to a milling table than a round bar.



Here are the drawings provided by Evans for his articles in the English Mechanic magazine. Unfortunately they do not give all the dimensions.