

Chest Hinge with Arc Control

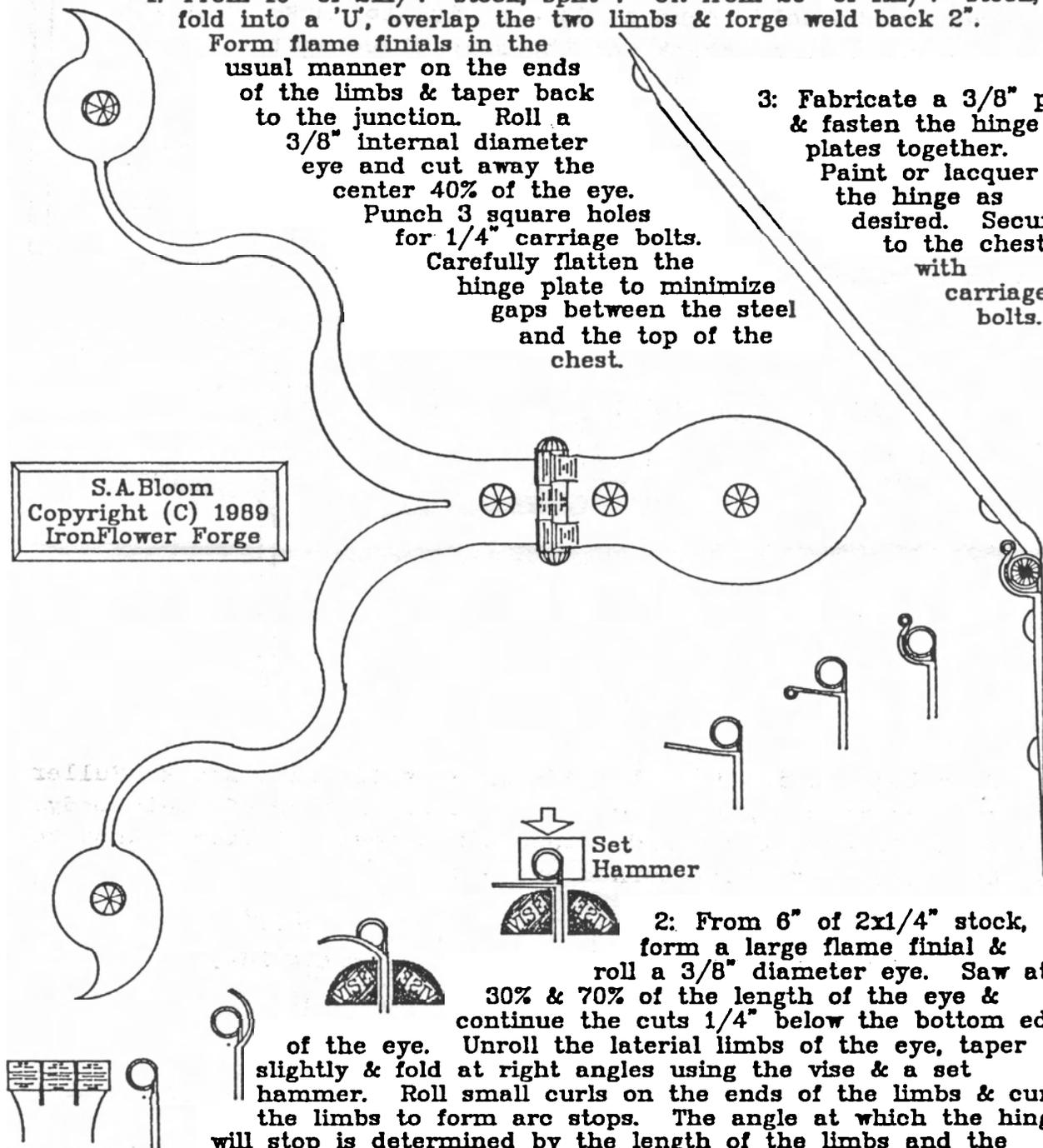
1: From 10" of 2x1/4" stock, split 7" OR from 20" of 1x1/4" stock, fold into a 'U', overlap the two limbs & forge weld back 2".

Form flame finials in the usual manner on the ends of the limbs & taper back to the junction. Roll a 3/8" internal diameter eye and cut away the center 40% of the eye.

Punch 3 square holes for 1/4" carriage bolts. Carefully flatten the hinge plate to minimize gaps between the steel and the top of the chest.

3: Fabricate a 3/8" pin & fasten the hinge plates together. Paint or lacquer the hinge as desired. Secure to the chest with carriage bolts.

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2: From 6" of 2x1/4" stock, form a large flame finial & roll a 3/8" diameter eye. Saw at 30% & 70% of the length of the eye & continue the cuts 1/4" below the bottom edge of the eye. Unroll the lateral limbs of the eye, taper slightly & fold at right angles using the vise & a set hammer. Roll small curls on the ends of the limbs & curve the limbs to form arc stops. The angle at which the hinge will stop is determined by the length of the limbs and the curvature.