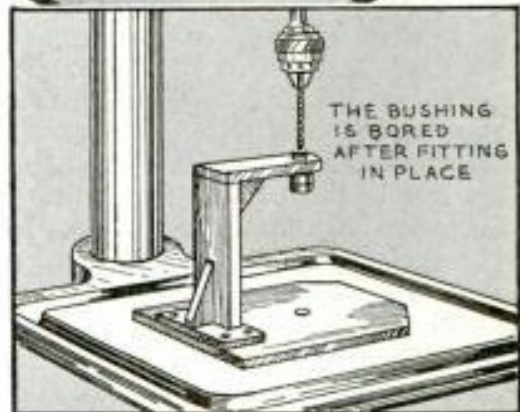
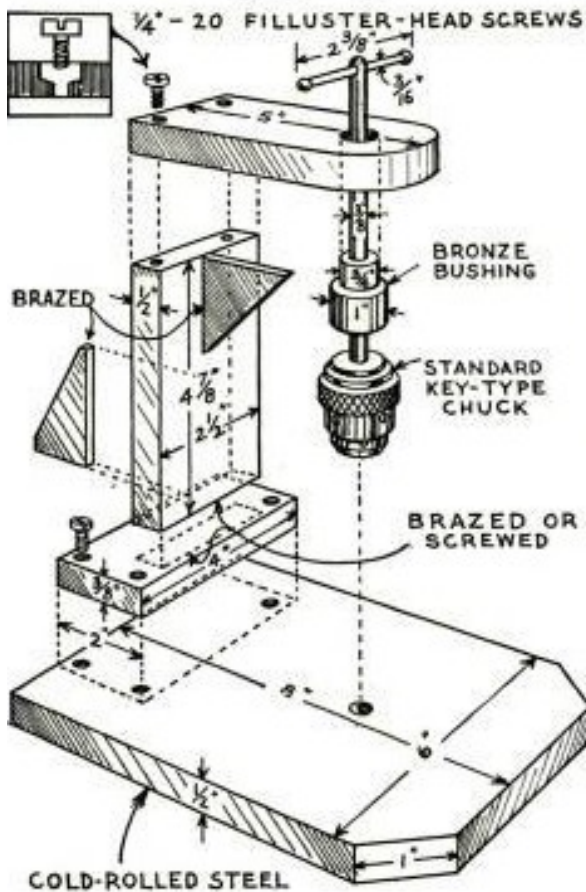


Hand Tapping Machine Helps Avoid Breakage



One of the reasons for broken taps—starting them at an angle in the holes—is avoided with this simple tapping machine. It starts the taps straight so that they follow through the holes in perfect alignment, leaving a clean-cut thread. In the original machine, the gooseneck shaped part was a junked shaft hanger anchored on a base at right angles to the chuck spindle. However, it can be built up from flat stock if desired. It's best to bore the hole for the chuck spindle on a drill press

to assure that it will be at a 90° angle to the base. The hole is bushed to receive the spindle. Most any chuck can be used, but it is best to have one that can be tightened with a key or wrench to assure good gripping of the tap. Drilling the shaft near the upper end to receive a handle made from a length of steel rod completes the job.

—V. Everson, West Orange, N. J.