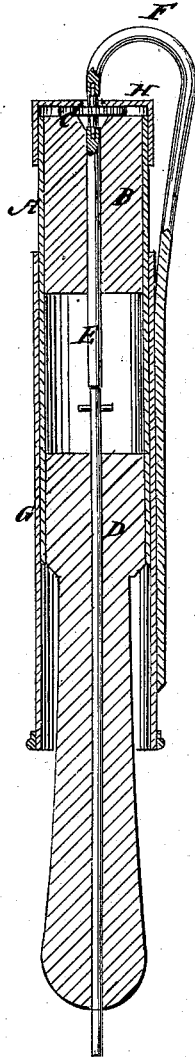


F. R. BUCKLIN.

Tool for Pivoting Watch-Wheels.

No. 164,714.

Patented June 22, 1875.



WITNESSES:

*E. Wolff*  
*A. J. Terry*

INVENTOR:

*F. R. Bucklin*  
BY  
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ATTORNEYS.

# UNITED STATES PATENT OFFICE.

FRANK R. BUCKLIN, OF EAST TILTON, NEW HAMPSHIRE.

## IMPROVEMENT IN TOOLS FOR PIVOTING WATCH-WHEELS.

Specification forming part of Letters Patent No. 164,714, dated June 22, 1875; application filed May 8, 1875.

*To all whom it may concern:*

Be it known that I, FRANK R. BUCKLIN, of East Tilton, in the county of Belknap and State of New Hampshire, have invented a new and Improved Tool for Pivoting Watch-Wheels, of which the following is a specification:

My invention consists of a tube with a plug in one end, a handle in the other, a centering-spindle in the center of the plug and handle, a cap for confining the wheel on the end of the plug, and an outside centering-rod on an outside tube, all contrived for holding a pivot on the squared end of a post from which the pivot has been broken, so as to be soldered on readily.

The instrument is designed to enable watch-repairers to solder on new pivots, instead of drilling the posts and fitting them in, which is difficult and laborious.

The drawing is a sectional elevation of my improved tool.

A is the tube, containing the plug B, of steel, on which the wheel C to be pivoted is placed.

D is a handle, of wood or other suitable material, in the other end. E is the centering-spindle for the lower pivot. F is a centering-rod, of copper, for the pivot to be attached. G is an outside tube, holding the rod F; and H is a cap, for holding the wheel on the face of the plug. These centering-rods have a socket in the end to receive the pivots, and

they are arranged exactly in line with each other, and at right angles to the face of the plug. The spindle fits snugly in the plug and handle, but so that it can be readily shifted up and down, to suit the length of the post. The cap H fits snugly on the tube A, to hold the wheel flat, and the tube G slides snugly on the tube A.

The post requiring a new pivot is filed square on the end, and with the wheel adjusted in the tool, the pivot to be attached, having a flat head as large as the end of the post, is then adjusted to and held on the end of the post by the copper rod F, while a spirit flame is applied to heat the solder and unite the pivot to the post.

In this way a pivot can be very strongly attached, and be adjusted truer in a few minutes than it can be in several hours by the old way.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the handled tube A, plug B, centering-spindle E, centering copper rod F, cap H, and tube G, substantially as specified.

FRANK R. BUCKLIN.

Witnesses:

JACOB B. SANBORN,  
MARIA J. SANBORN.