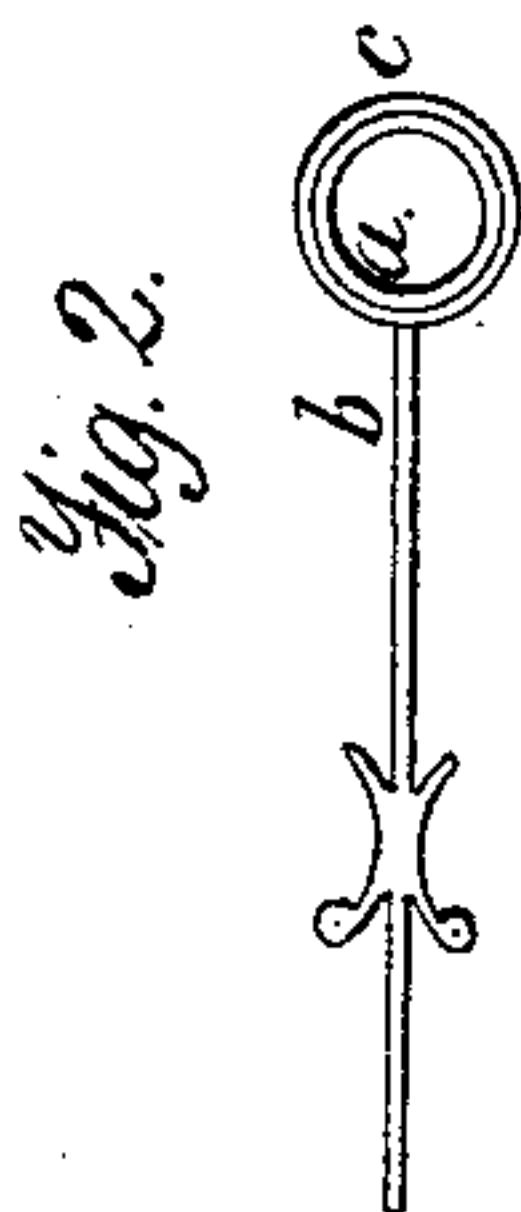
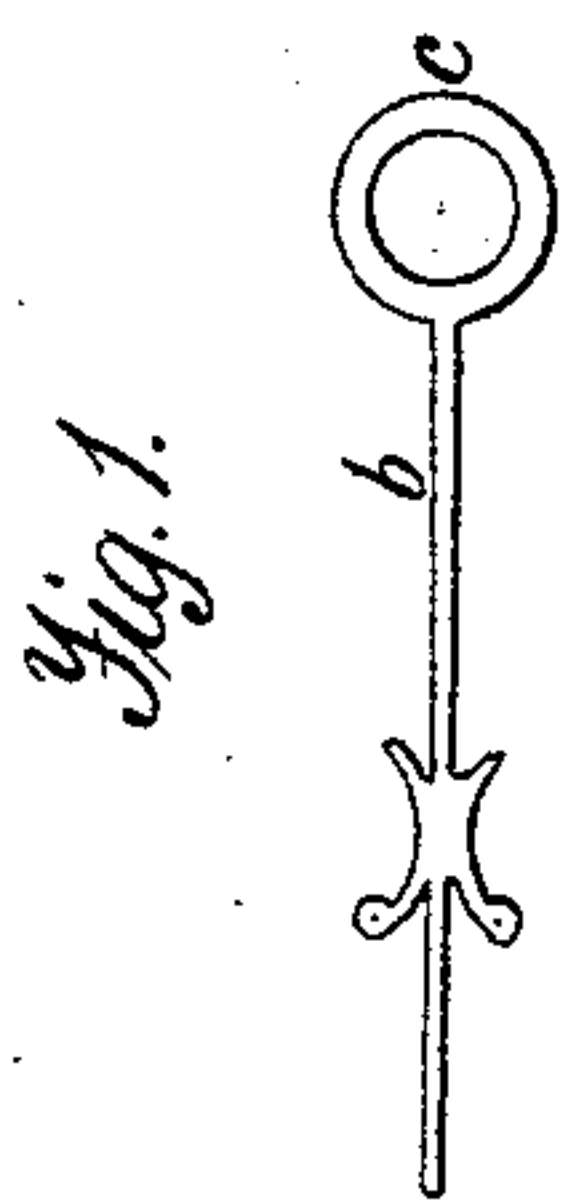
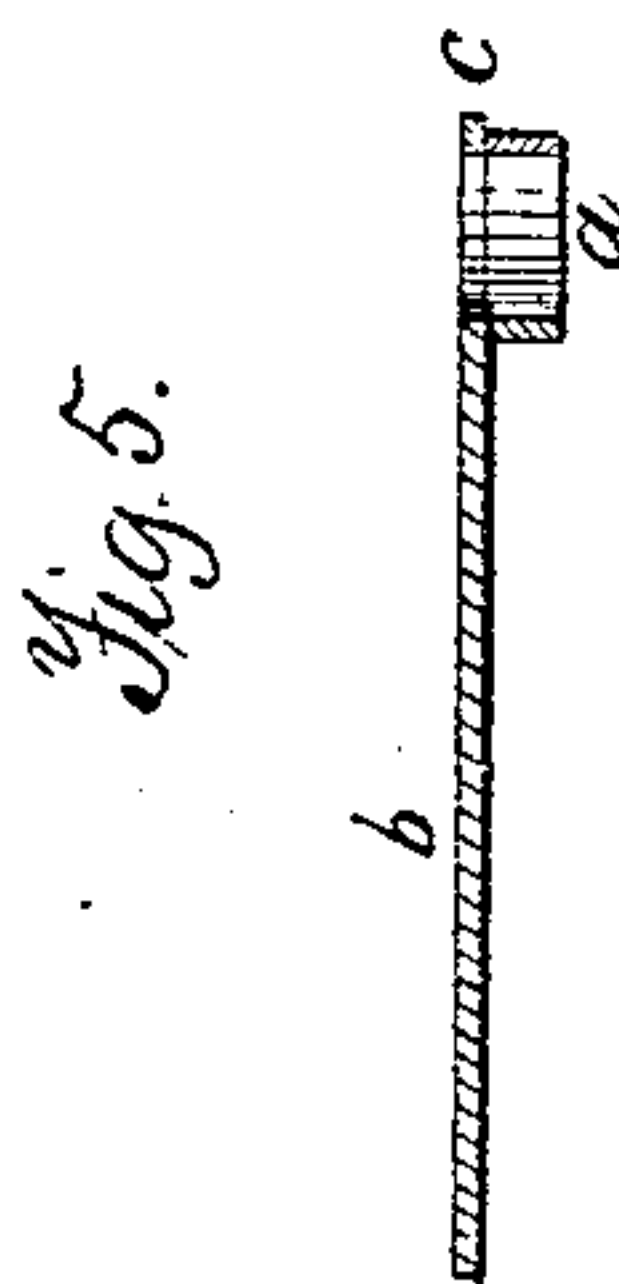
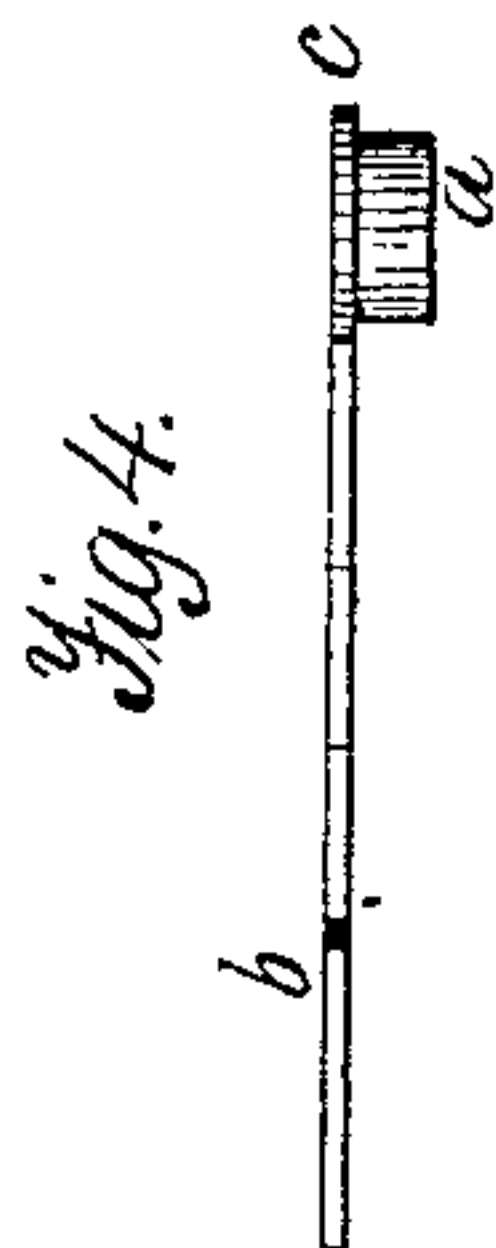
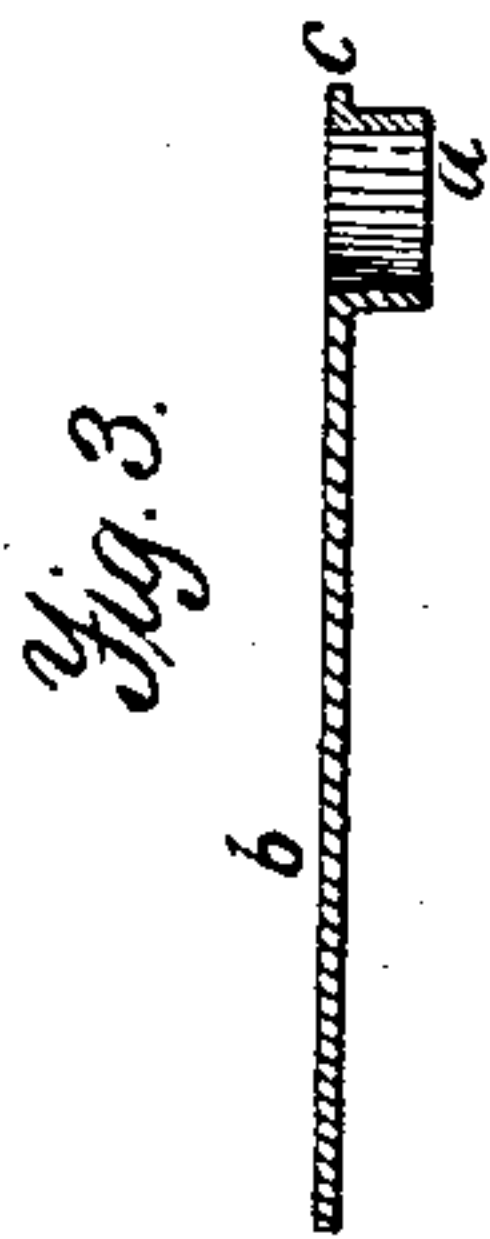


G. Hastings.

Making Watch Hands,

N^o 52,849.

Patented Feb. 27, 1866.



Witnesses:

F. Curtis
Samuel A. Piper.

Inventor:

George Hastings
by his attorney.
R. W. Edger.

UNITED STATES PATENT OFFICE.

GEO. HASTINGS, OF WALTHAM, MASSACHUSETTS.

IMPROVEMENT IN WATCH-HANDS.

Specification forming part of Letters Patent No. 52,849, dated February 27, 1866.

To all whom it may concern:

Be it known that I, GEORGE HASTINGS, of Waltham, in the county of Middlesex and State of Massachusetts, have invented an Improved Manufacture of Watch or Time-Piece Hands; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 an under-side view, Fig. 3 a longitudinal section, and Fig. 4 a side elevation, of it. Fig. 5 is a section of a watch-hand as constructed prior to my invention.

Before my invention it has been customary to make a watch-hand of two separate pieces of metal, the finger *b* and the ring *c* being in one piece, and the tube or collar *a* being in another piece and soldered to the ring *c*. In making the part *a*, a cylinder of brass or other soft metal has been soldered to the part *c*, and afterward bored out and turned down, so as to convert it into a tube. This mode of making the hand has not only been very expensive, but is attended with a liability of the part *a* becoming separated from the part *c*.

In making my improved hand I strike up the whole of it—viz., the parts *a b c*—from one piece of metal, by means of dies suitably made, thus causing the socket-tube *a* to be in one piece of metal with the ring *c* and the finger *b*, and to be perfectly united with the ring.

I am aware that it is not new to give form to an article by means of dies, and therefore I do not claim the employment of dies for such purpose; nor do I claim a watch or time-piece hand as constructed with its socket-tube *a* made of a separate piece of metal and soldered to the ring or head *c* of the finger *b*; but

What I do claim as my invention, as I am the first to produce it as a merchantable article, is—

The hereinbefore-described improved manufacture of watch or time-piece hand having its socket-tube, its head, and finger formed in one piece of metal, substantially as set forth.

GEO. HASTINGS.

Witnesses:

R. H. EDDY,
F. P. HALE, Jr.