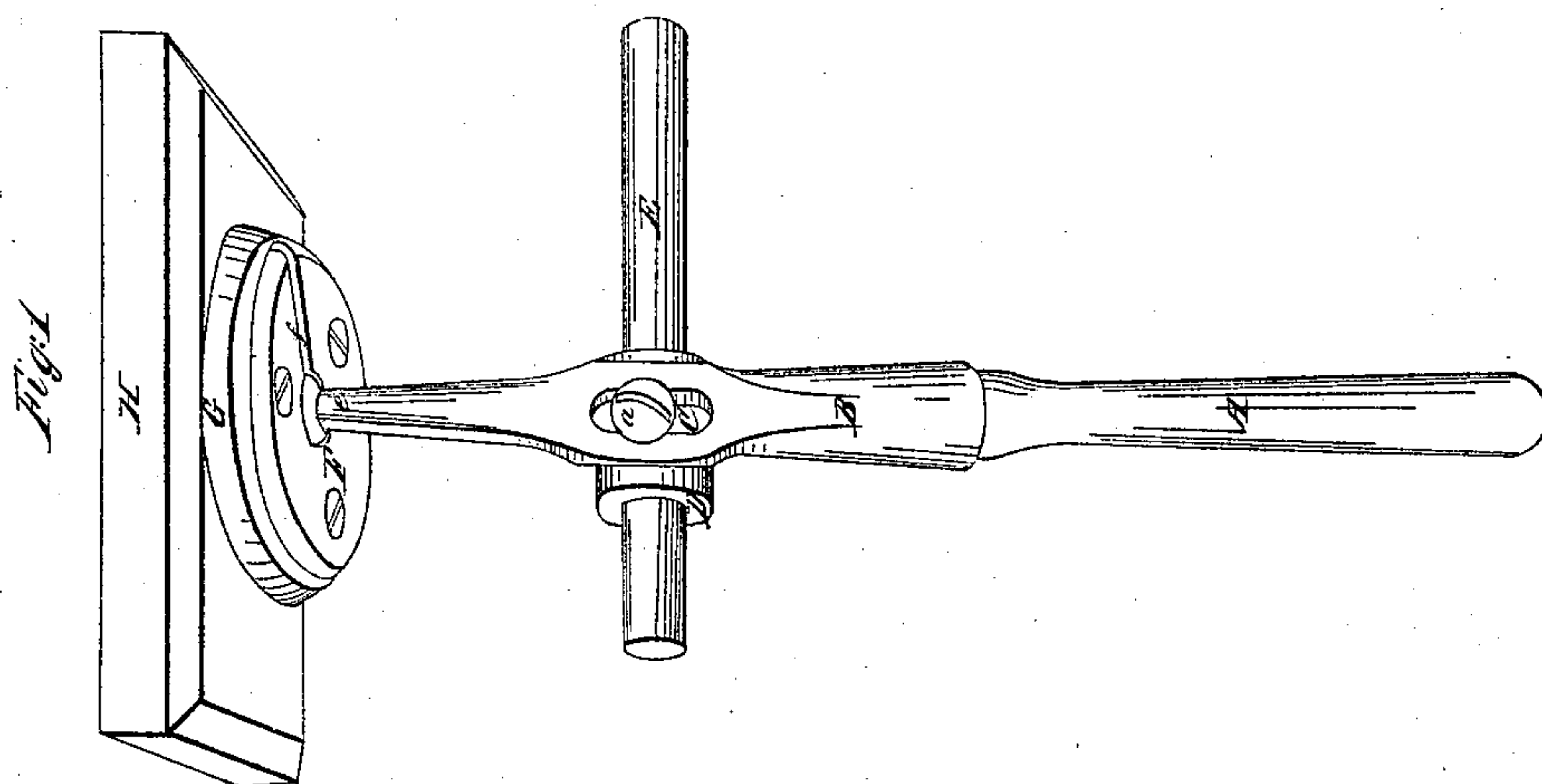
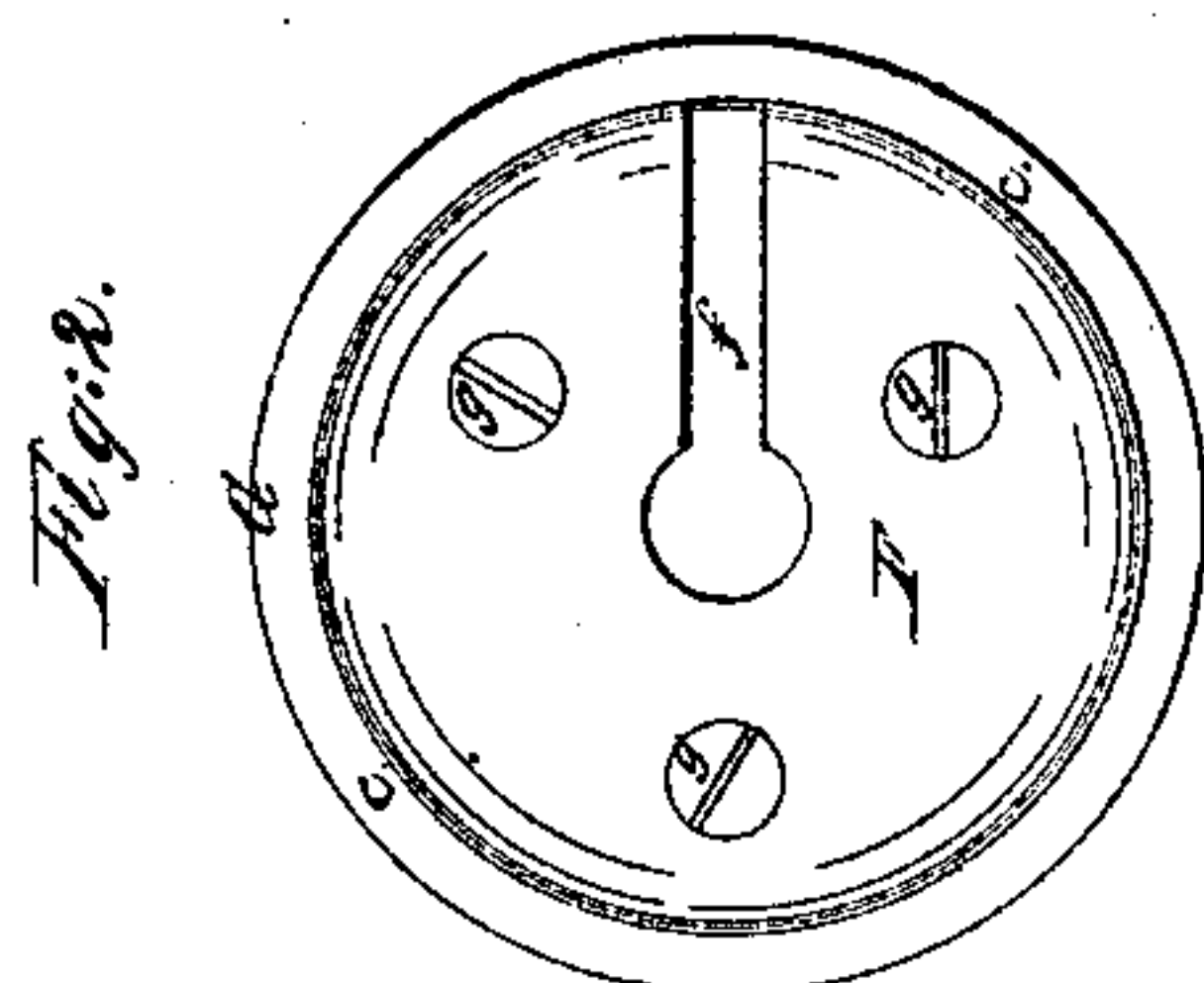


Belt Shifter.

Patented Jan. 16, 1866.



H. Fuller

Wm. H. Dodge

Joseph F^r Light

UNITED STATES PATENT OFFICE.

JOSEPH F. LIGHT, OF WORCESTER, MASSACHUSETTS.

IMPROVEMENT IN SHIPPER DEVICES.

Specification forming part of Letters Patent No. 52,059, dated January 16, 1866.

To all whom it may concern:

Be it known that I, J. F. LIGHT, of the city and county of Worcester, and State of Massachusetts, have invented certain new and useful Improvements in Shipper Devices; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a perspective view of the device. Fig. 2 represents a bottom view of the device for holding the shipping-lever to the ceiling; and Fig. 3 represents a longitudinal central section of my improved device.

In the drawings, A represents the shipper-lever, which, in this instance, is fastened in a socket in the lower end of the cast-iron piece B, which has a slot, C, to receive the set-screw *a*, which enters the slide-sleeve D upon the slide-rod E. The upper end of the piece B is cast in the form of a ball, *b*, to fit into the socket cast in the pieces F and G, as fully indicated in the drawings. In order to make the parts more secure, the piece G is cast with a flange, *c*, and the piece F is cast so as to fit into the piece G, as fully indicated in Fig. 3.

This shipper device can be used for shipping belts or clutches. When used for shipping belts two forks or short arms are attached to the shipping-rod E, and when used for shipping clutches the clutch-fork is attached to rod E. Rod E is to be supported in suitable bearings, so as to slide freely back and forth longitudinally.

The socket in piece B for lever A may be of any desired shape.

It will be observed that lever A can be turned in any direction, which allows it to be

set in any desired position. (See red lines in Fig. 3 as an illustration.)

Again, in putting the device up, its great practical utility is fully illustrated, since all that is necessary to be done is to slip the neck *e* of piece B through the slot *f* in piece F, and then place piece F within the flanges of piece G, as indicated in the drawings, when, by inserting three screws, *g g g*, through holes in the pieces F and G, the parts can be readily and securely fastened to the ceiling H. The lever A may now be swung back into the proper position to be fastened to the rod E, after which it can be moved freely back and forth to operate slide-rod E, and through that a clutch or belt, as above described. Slot C gives the required space for the free movement of the set-screw *a* when lever A is moved back and forth.

The device is simple and cheap in construction, and at the same time durable, and not liable to get out of order.

Having described my improved shipper device, what I claim as of my invention, and desire to secure by Letters Patent, is—

1. The piece B, cast with a socket in its lower end to receive the lever, and having a ball, *b*, at the other end, in combination with the pieces G and F, for sustaining the same, substantially as set forth.

2. The combination, with the pieces G and F, of the flange *c*, for the purposes set forth.

3. The combination, with the slotted piece B, of the slide-sleeve D and slide-rod E, substantially as set forth.

JOSEPH F. LIGHT.

Witnesses:

H. L. FULLER,
THOS. H. DODGE.