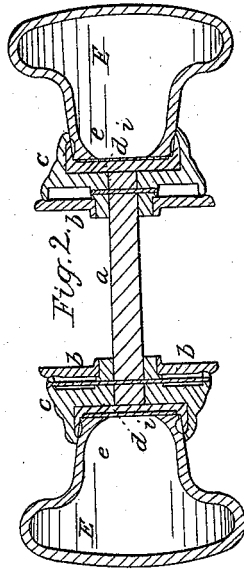
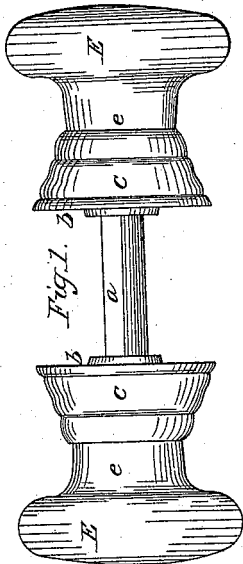


W. Leighton,

Door Knob.

N^o 12,265.

Patented Jan. 16, 1855.



UNITED STATES PATENT OFFICE.

WILLIAM LEIGHTON, OF CAMBRIDGE, MASSACHUSETTS, ASSIGNOR TO NEW ENGLAND GLASS CO.

DOOR-KNOB.

Specification of Letters Patent No. 12,265, dated January 16, 1855.

To all whom it may concern:

Be it known that I, WILLIAM LEIGHTON, of Cambridge, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Door-Knobs, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, which makes part of this specification, and in which—

Figure 1 represents a side elevation of the spindle and knobs of a common knob lock for doors, and Fig. 2, a longitudinal section through the same.

My invention and improvement consists in producing a glass knob for doors, drawers, etc., which shall possess the color and luster, of polished silver, without liability to tarnish from handling or exposure to the weather, and at a cost little above that of the ordinary glass or porcelain knob, and this I accomplish by making the knob hollow, with a smooth and polished interior surface upon which I deposit a coating of pure metallic silver, from a solution containing that metal by any of the known or any suitable process of coating glass with metallic silver, after which I seal up the opening through the shank of the knob by which the silver was introduced, to exclude oxidizing agents or such substances as would scratch the silver and mar its surface.

In the accompanying drawing the spindle (*a*) is represented as square and fitted with a pair of washers (*b*) in the usual manner. On each extremity of the spindle a cap (*c*) is secured whose outer end is formed into a cup (*d*) to receive the shank (*e*) of the

knob (*E*) which is confined therein by cement in the usual manner in which glass knobs are secured to the metallic cups on the ends of lock spindles, latches, or fastening screws. The cover (*i*) over the end of the shank to seal up the knob is made of paper rendered impervious to moisture by shellac, wax, or other suitable cement. When each of the several parts have been made the first step is to place in the cups (*d*) the proper quantity of plastic cement and then insert the shank and press it into place which will expel the superfluous cement, and at the same time ensure the filling of every part of the cavity between the shank and the cup so as to fix the knob firmly on the spindle.

I am aware that hollow glass knobs have been lined with quicksilver, and that glass has been coated with pure silver for various uses, but I am not aware that a cheap door knob has ever been produced having the color and brilliancy of polished silver rendered durable, and free from liability to tarnishing or abrasion, by protection from the action of chemical or mechanical agents and

Therefore I claim—

The hollow silvered knob sealed up and protected as herein set forth as a new and highly ornamental manufacture.

In testimony whereof, I have hereunto subscribed my name.

WM. LEIGHTON.

Witnesses:

JOHN S. LADD,
JOHN H. LEIGHTON.