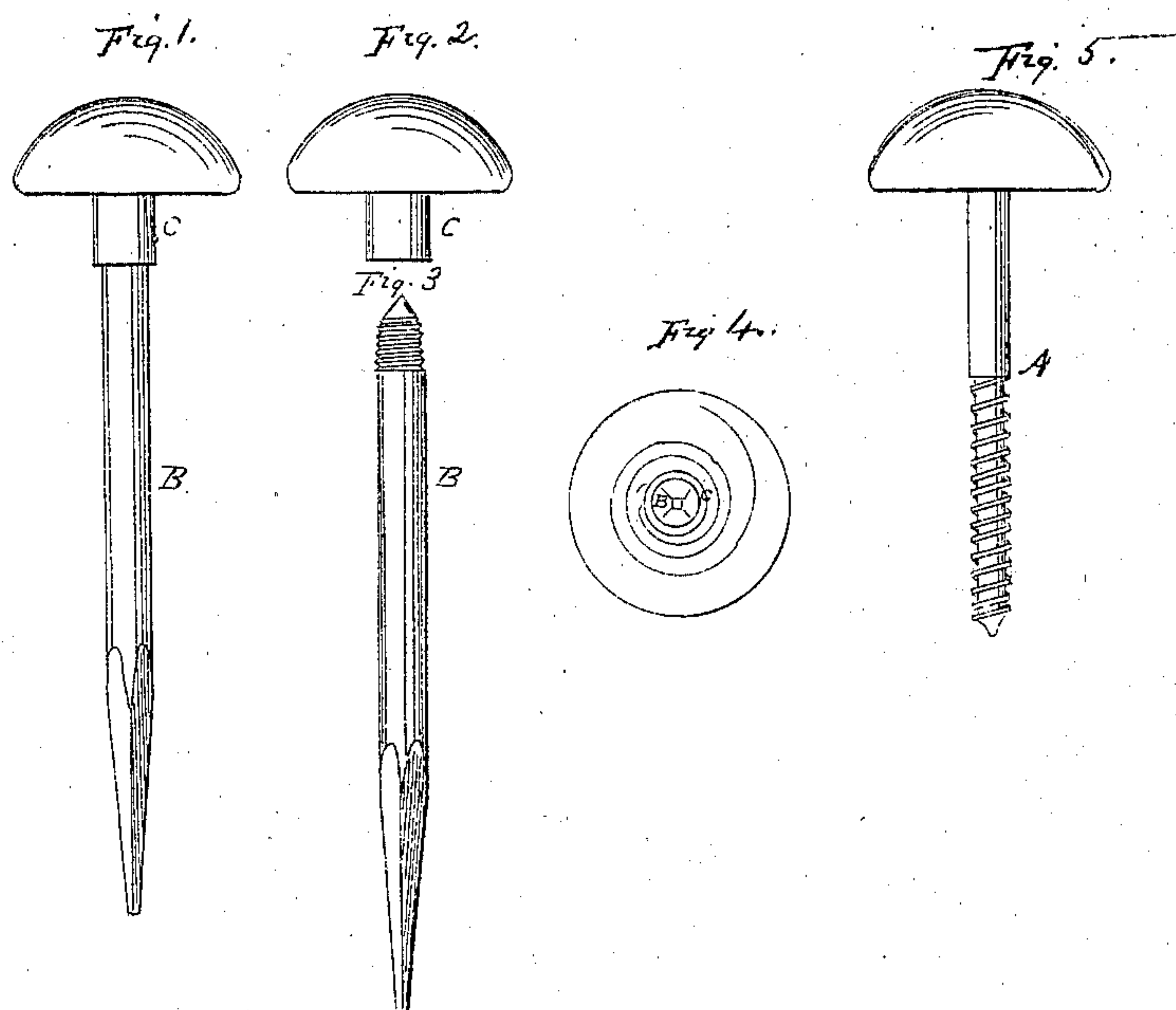


E.D. IVES' IMP'T IN PICTURE KNOBS

74692

PATENTED
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E. D. IVES, OF NEW HAVEN, CONNECTICUT.

Letters Patent No. 74,692, dated February 18, 1868.

IMPROVEMENT IN PICTURE-KNOBS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, E. D. IVES, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in the Manufacture of Picture-Knobs from glass; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view of the nail complete.

Figure 2, a side view of the head.

Figure 3, a side view of the nail detached.

Figure 4, an under side view of the head; and, in

Figure 5, the head attached directly to the nail or screw.

This invention relates to an improvement in the manufacture of that class of nails and knobs such as are generally used for suspending pictures, and commonly called picture-knobs or nails; and the invention consists in the process of forming the head upon the nail or socket, that is to say, first heating the socket, then attaching one end of a bar of glass, heated by the blow-pipe into a semi-plastic state, causing the nail or socket to revolve, drawing the glass on to the socket or shank, and piling until a sufficient quantity of glass has been attached to the shank or socket, then, by a mould of proper form, pressing the surface of the knob into the desired shape, thus avoiding the necessity of melting the glass, and forming a better surface and more secure attachment than has heretofore been done.

In order to the clear understanding of my improvement, I will proceed to describe the same as illustrated in the accompanying drawings.

I will first describe the process of attaching a head directly to a screw, as seen in fig. 5. A screw, A, is first placed in a revolving mandrel, and the flame from the blow-pipe caused to fall upon the head of the screw until the screw is heated to a bright red heat; then a bar of glass of any desired color or colors is placed in such proximity to the flame as will heat the glass into a semi-plastic or flexible state; then the heated end of the bar is placed upon the hot head of the screw, and the screw continuing to revolve winds and draws out the glass, the heat continuing until the requisite quantity of glass has been wound upon the head; then, when still hot, a mould of the form desired is applied and the surface of the head pressed into the shape desired, as denoted in fig. 5, the under surface of the head presenting the appearance denoted in fig. 4, showing the manner in which the glass has been wound upon the screw.

For nails it is necessary that the head be detached. I therefore form the nail B, as seen in fig. 3, the upper end being threaded, and, instead of inserting the screw into the mandrel, I place a threaded socket, C, thereon, causing it to be heated to revolve and attach the glass thereto, as before described, the internal thread of the socket C corresponding to the thread on the head of the nail. Then the two are attached together, as seen in fig. 1, and when it is desired to drive the nail, remove the head, and, when the nail has been driven, replace the head thereon.

I do not wish to be understood as broadly claiming a picture-nail constructed with a detachable head, as such are common and well known; but

What I do claim as new and useful, and desire to secure by Letters Patent, is—

1. Forming and attaching knobs of glass or similar material to screws or nails, substantially in the manner herein set forth.

2. The combination of the threaded nail B and socket C, when the said socket has formed thereon a knob or head of glass or similar material, and when the said glass or similar material is formed and attached thereon, in the manner and by the process herein set forth.

Witnesses:

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