(No Model.)

J. H. IVES.

DEVICE FOR LAYING PUTTY.

No. 356,200. Patented Jan. 18, 1887.

Fig. 1.

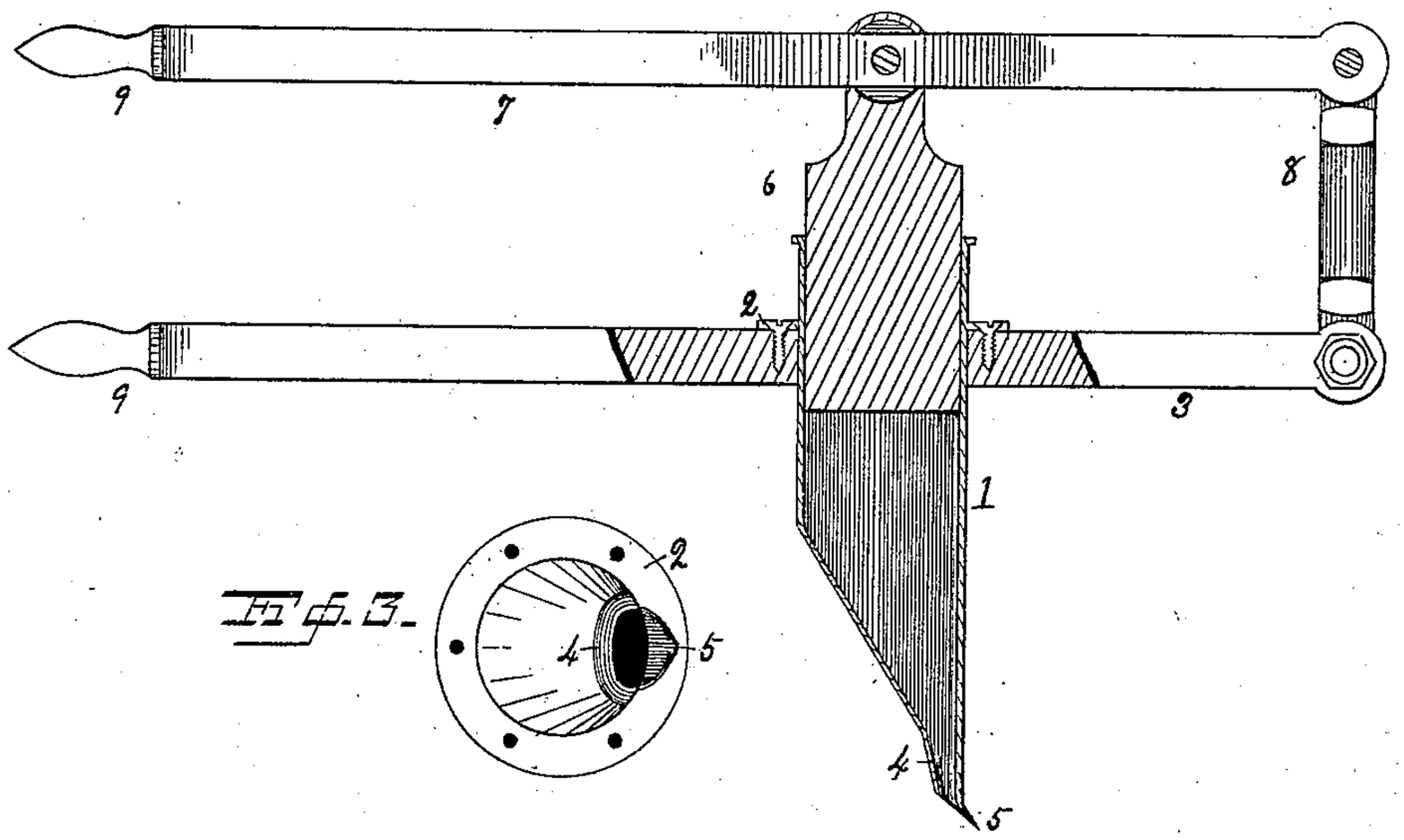
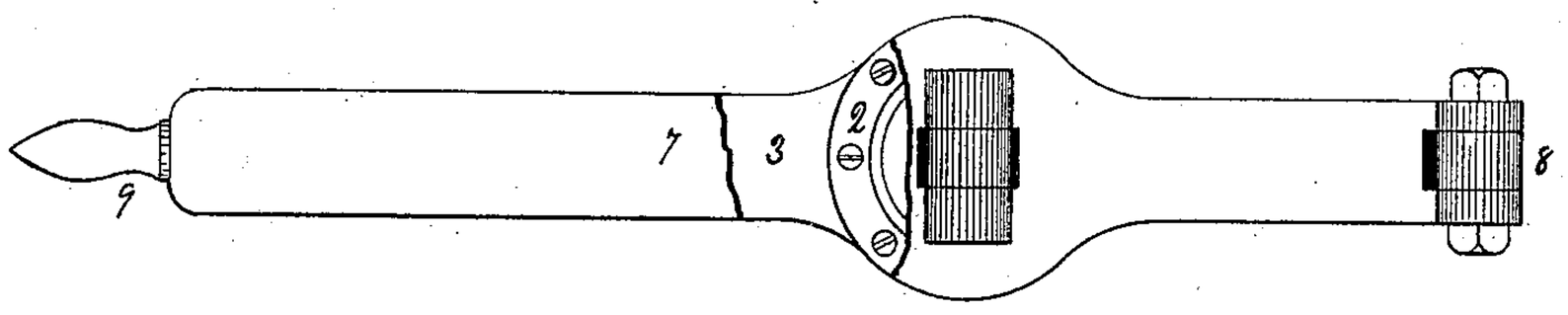


Fig. 3.

Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

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DEVICE FOR LAYING PUTTY.

SPECIFICATION forming part of Letters Patent No. 356,200, dated January 18, 1887.

Application filed July 12, 1886. Serial No. 207,768. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH H. IVES, a citizen of the United States, residing at Danbury, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Devices for Laying Putty; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to provide a device for laying putty, and is adapted for general use, but will be found especially adapted for use by florists and gardeners in securing the panes of glass in hot-house frames or covers.

It will of course be understood by those familiar with the art that in glass-setting of this kind great allowance must be made for expansion and contraction by heat and cold. For this reason the putty used is quite soft, and will not set or dry hard. The oil in the putty quickly forms a skin upon the outside of it, which holds the panes of glass firmly in position; but owing to the large quantity of oil used in making the putty the inside of the mass never sets or dries hard, so that it will readily yield to the expansion and contraction of heat and cold without the glass becoming loosened in the slightest. This is not the case when hard putty is used. After the latter has become set or dried hard alternate frost and midday heat quickly act to crack the putty and detach it from the frame-work, so that the panes of glass become loosened. The trouble with using soft putty, however, has been that it was exceedingly difficult to lay it with any of the glaziers' tools heretofore in use. In order to overcome these objections, and to provide a device that will lay soft putty quickly and smoothly, I have devised the novel construction of which the following description, in connection with the accompanying drawings, is a specification, numbers being used to indicate the several parts of the device.

Figure 1 is a view of the device complete, the piston, tube, and nozzle being shown in section; Fig. 2, a plan view, a portion of the upper lever being broken out; and Fig. 3 is an inverted plan view of the tube and nozzle, showing the lip by which the putty is pressed into place and smoothed.

1 denotes the tube or receptacle for the putty. This tube is preferably provided with a flange, 2, by which it is secured to a support, 3, in any suitable manner. The support is preferably made of wood, and is shown in the drawings as made wide enough at that portion to permit the tube to pass through it, flange 2 being secured to the support by screws. At the lower end of the tube is a contracted nozzle, 4, and at the outer edge of the nozzle a lip, 5, by which the putty is pressed into place and smoothed.

6 is a piston, which is pivoted to a lever, 7.

8 is a link, one end of which is pivoted to support 3, and to the other end of which lever 7 is pivoted. The other ends of both support and lever are provided with handles 9, for convenience in operation. As the link is pivoted loosely at both ends and the piston is pivoted loosely to the lever, it follows that the parts will work freely.

The operation is as follows: The piston is lifted out from the tube, and the latter is filled or partially filled with soft putty, it being of course only necessary that the putty should be made soft enough to work freely through the nozzle. Having laid the panes of glass in position in the frames, lip 5 is placed in the angle between the glass and the mullion. The putty is then forced out by the piston, operated through lever 7, and the whole device is drawn rapidly along. The amount of putty forced out depends, of course, upon the pressure on the piston, and the amount required depends upon the rapidity with which the device is moved along. It is simply necessary to force out enough to fill the angle between the glass and mullion, so that lip 5 will press it down firmly in place and leave it perfectly smooth. The entire operation of laying the putty is finished at this one operation, no trimming or dressing over being required.

I have illustrated my invention as carried out in the simplest possible manner. It should be understood, however, that my invention is not limited to the details of construction herein

shown and described, as they may be widely varied without departing from the spirit of my invention.

I claim—

1. A portable device for laying putty, consisting, essentially, of a tube having a reduced nozzle and a lip for pressing the putty into an angle and smoothing it, in combination with a support for said tube, a piston for forcing the putty out of the tube, and a lever connected to the support for actuating the piston.

2. Tube 1, which is firmly secured to a support, 3, and is provided with a reduced nozzle and lip, 5, in combination with a piston pivoted to lever 7, and a link, one end of which is pivoted to the support and the other to the lever, as and for the purpose set forth.

3. In a device for laying putty, support 3, enlarged, as shown, and tube 1, which passes through said support and is provided with a flange secured thereto, nozzle 4 at the lower end of the tube, and a lip, 5, at the outer edge of said nozzle, in combination with a piston, a lever to which said piston is pivoted, and a link, 7, pivoted both to the support and to the lever, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH H. IVES.

Witnesses:
A. M. WOOSTER,
C. E. RUGGLES.