Feb. 6, 1923.

1,444,227.

C. H. WEBER.

TOOL FOR APPLYING PUTTY.

FILED FEB. 23, 1922.

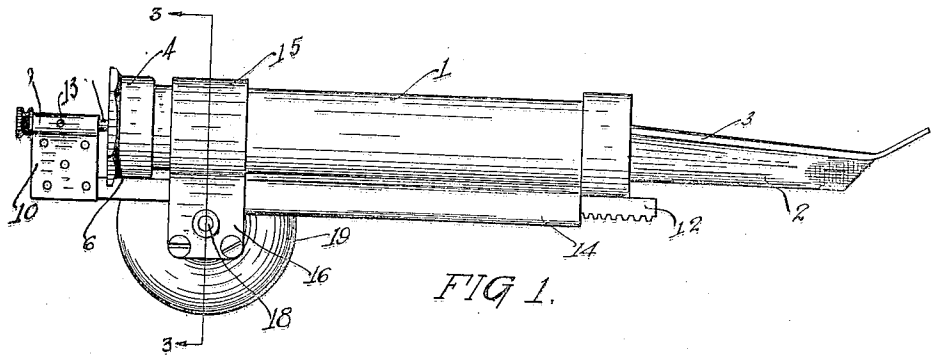


FIG 1.

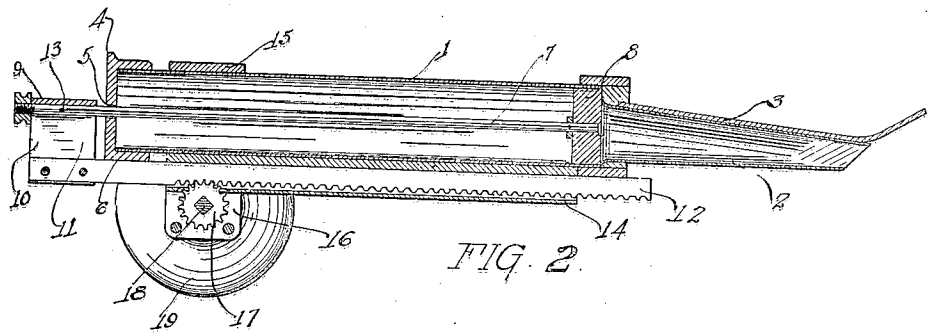


FIG. 2.

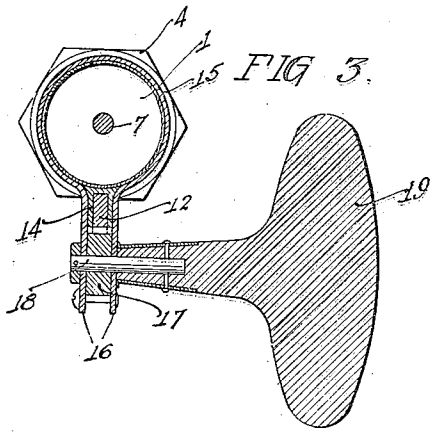


FIG 3.

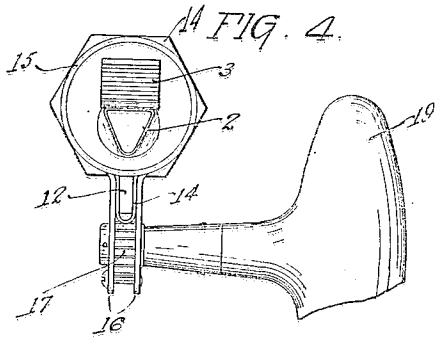


FIG. 4.

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UNITED STATES PATENT OFFICE.

CHARLES H. WEBER, OF COLUMBUS, OHIO.

TOOL FOR APPLYING PUTTY.

Application filed February 23, 1922. Serial No. 538,744.

To all whom it may concern:

Be it known that CHARLES H. WEBER, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, has invented certain new and useful Improvements in Tools for Applying Putty, of which the following is a specification.

This invention relates to a tool for compacting, forming and applying putty to window sash frames and similar structures and has for its object to provide a cheap, convenient and compact tool for this purpose.

More specific objects of the invention will be made apparent by the following description and the appended claims.

In the accompanying drawings:

Figure 1 is a side elevation of the tool for carrying and applying the putty.

Figure 2 is a longitudinal vertical section taken through the center of the tool.

Figure 3 is a transverse vertical section taken through the line 3—3 of Figure 1 and looking in the direction of the arrows.

Figure 4 is an end view looking from the right of Figure 1.

The device comprises a cylinder 1 in which putty is placed, having at its forward end a reduced tapered trough shaped prolongation 2 communicating with it. This prolongation of the cylinder at its smaller or discharge end is formed to have a triangular cross section so that the putty which is forced therefrom will be adapted to lie in the angle between the window glass and the sash frame. Fixedly mounted upon the open side of the member 2 is a rigid metallic closure plate 3 having an upwardly inclined terminal portion disposed in angular relation to the member and is adapted to be pressed against the putty as it passes from the member 2 to force it firmly into place. The rear end of the cylinder is provided with a cap 4 having an opening 5 through its center. A piston rod 7 carrying at its forward end a piston 8 passes through the opening in the center of the cylinder cap. The rear end of the piston rod carries a collar 9 which terminates in depending flanges 10 having a spacer block 11 therebetween and at their lower extremities receiving between them the end of a rack bar 12. The collar and flange member is retained against movement relatively to the piston rod by a pin 13. On the lower side of the cylinder 1 there is provided a depending U shaped housing 14 for receiving and guiding the rack bar 12. At its rear end the cylinder is surrounded by a collar 15 which terminates in depending flanges 16 that receive between them the rear extremity of the U shaped guide member 14 and immediately therebeneath a pinion 17 which is adapted to mesh with and actuate the rack bar. This pinion is mounted to rotate with a shaft 18 having fixedly connected to its outer end a knob 19 which is provided for the purpose of being grasped by the operator and rotated to advance and retract the piston in the cylinder.

The operation of the device is as follows: With the piston and rack removed from the cylinder unit, putty is placed in the cylinder. The rack is then loosely inserted in the U shaped guide and the piston head is loosely inserted in the cylinder. The operator then gives the knob a slight turn to mesh the pinion with the rack and with his hands forces the cylinder cap into place, when the device is ready for use, by advancing the piston through a further turning of the knob.

It will be understood that by the provision of the guide opening for the piston in the cylinder cap and the U shaped guide member for the rack bar, all tendency of the sliding members to bend or get out of alignment with the cylinder is eliminated.

What I calim is:

1. In a tool for applying putty, a cylinder, a reduced trough shaped member forming a prolongation of said cylinder and terminating in a reduced forward end which is triangular in cross-section, a plate attached to said member and closing one side thereof, the outer end of said plate being disposed in angular relation to the member, a piston in said cylinder to compress the putty and force it from the forward end of said member, and rack and pinion mechanism for operating said piston.

2. In a tool of the class described, a cylinder, a piston mounted to slide in said cylinder, a rod for the piston, a housing on the lower side of said cylinder, adapted to act as a guide, a collar surrounding said cylinder having depending flanges lying on opposite sides of said housing, a rack connected to said piston and received in said guide, a pinion supported between the depending flanges and meshing with said rack,

the rear end of the rod having a collar fixed thereto, flanges carried by the collar and fixed to the rear end of the rack and manual means for rotating the pinion to move the piston.

3. In a device of the kind described, a cylinder, a piston therein, a piston rod connected to said piston, a cylinder cap having an opening for guiding said piston rod, a forwardly extending rack connected to the rear end of said piston rod, and a pinion for moving said rack, the relative lengths of the piston rod and rack being such that the piston head may be moved rearwardly to force the cap from the cylinder by turning of the pinion.

In testimony whereof I affix my signature.

CHARLES H. WEBER.