No. 760,027. PATENTED MAY 17, 1904.

W. T. SELLEY.

PUTTYING TOOL.

APPLICATION FILED JULY 9, 1903.

NO MODEL.

Fig. 1.

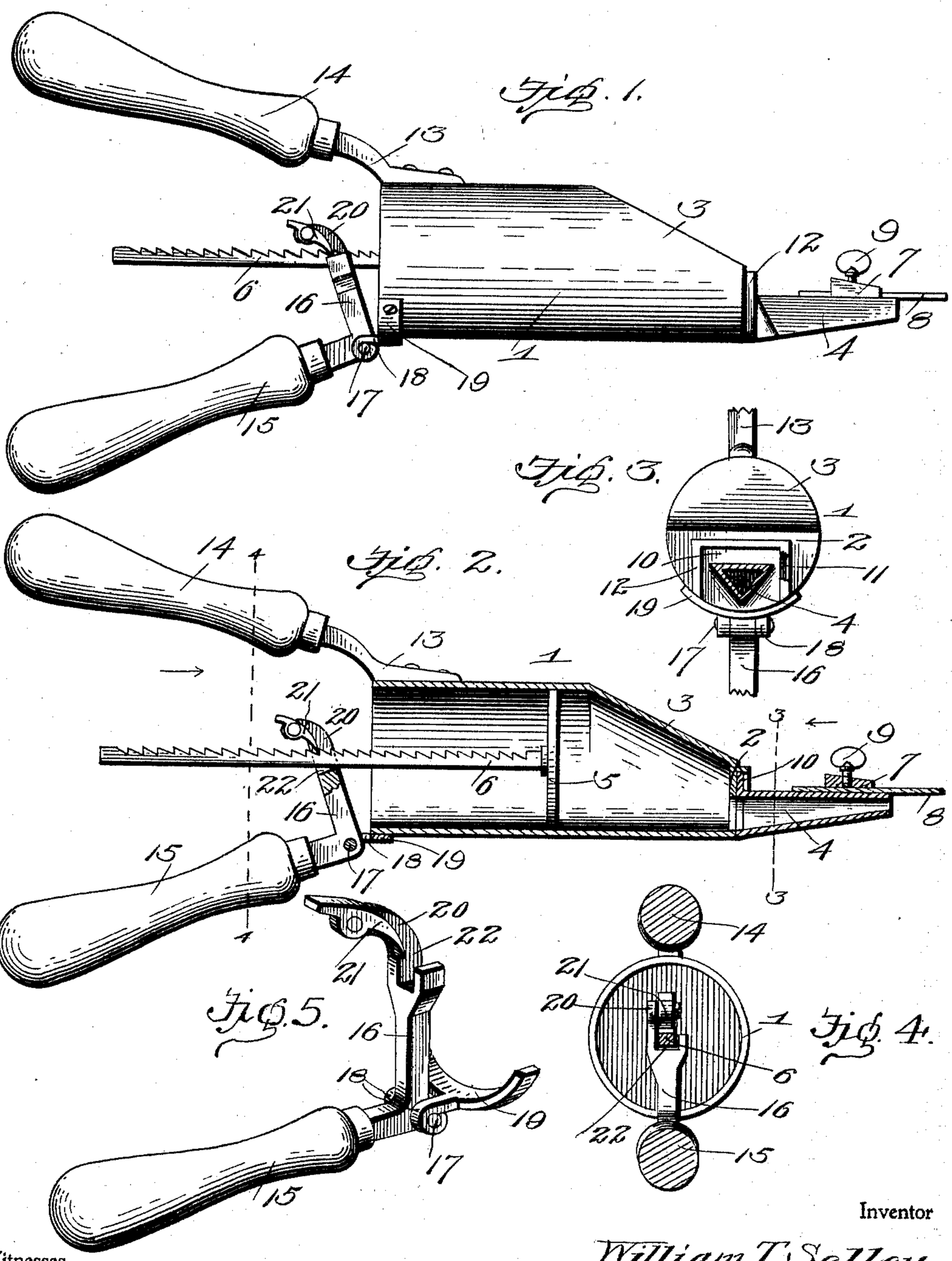

Fig. 2.

Fig. 3.

Fig. 5.

Fig. 4.

Witnesses

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No. 760,027. Patented May 17, 1904.

UNITED STATES PATENT OFFICE.

WILLIAM T. SELLEY, OF NASHVILLE, TENNESSEE, ASSIGNOR OF ONE-HALF TO FREDERICK A. SELLEY, OF LAFAYETTE, TENNESSEE.

PUTTYING-TOOL.

SPECIFICATION forming part of Letters Patent No. 760,027, dated May 17, 1904.

Application filed July 9, 1903. Serial No. 164,885. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM T. SELLEY, a citizen of the United States, residing at Nashville, in the county of Davidson and State of Tennessee, have invented certain new and useful Improvements in Puttying-Tools; and I do 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.

This invention relates to an improved puttying-tool of that character in which means are employed for automatically forcing the putty from a reservoir out through a nozzle onto the article being glazed, the feed of putty being regulated by the operator so as to eject the amount required for use.

It has for its object to provide a tool of this character embodying a number of improved features of construction, among them an improved detachable nozzle and simple and effective operating means under the control of the operator for feeding out the putty, whereby the efficiency of the tool is increased and a form of tool provided which may be readily and conveniently manipulated by the operator.

With these and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter more fully described, and particularly pointed out in the appended claims, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a puttying-tool embodying my invention. Fig. 2 is a longitudinal section of the same. Fig. 3 is a cross-section through the nozzle on line 3 3 of Fig. 2. Fig. 4 is a cross-section through the rack-bar on line 4 4 of Fig. 2, and Fig. 5 is a detail view of the power-handle and connections.

In the embodiment of my invention I provide a reservoir 1, open at its rear end and closed at its front end by a head or front wall 2, the rear portion of the reservoir preferably being cylindrical and the front portion having a beveled or inclined wall 3 to guide the contained putty to the nozzle 4, as hereinafter described. Operating in the reservoir is a follower or piston 5, to which is connected a rearwardly-extending rack-bar 6 and which when forced forward in the reservoir feeds the putty to the nozzle 4. As shown, the nozzle 4 is of triangular form and tapering, so as to eject the putty in such shape as to conveniently fill the space to be glazed and is provided with a socket 7 for the reception of the knife 8, by which the putty is applied, the knife being detachably secured in position by a set-screw 9. The nozzle is carried by a bracket-plate 10, which has an opening coinciding with the bore of the nozzle and is formed with beveled edges 11 to fit within a beveled or dovetailed guideway or receptacle 12, riveted or soldered on the head 2. The lower end of this receptacle forms the entrance thereto through which the bracket-plate 10 is inserted and removed, so that in the use of the knife 8 the applied pressure will serve to force the bracket-plate more firmly in position, and thus prevent the nozzle from becoming loosened or detached from the holder or guideway 12. The holder or guideway 12 may be formed by a plate secured to the head 2 and having an opening coincident with the feed-opening in said head and three of its sides turned over to form the guideway for the bracket-plate.

Fixed to the top of the reservoir by means of a tang 13 is a stationary handle 14, which projects from the reservoir, and located below said stationary handle is a movable or power-applying handle 15. This handle 15 is provided with a bell-crank 16, formed by a tang extending outwardly therefrom and bent into form, said bell-crank being pivoted at its angle by a pin 17 between ears 18 on a segmental-shaped bracket-plate 19, detachably secured to the under side of the reservoir, whereby the handle 15 and its connections may be removed for repairs, &c., whenever required. The upwardly-extending arm of this bell-crank lever 16 has a back-turned lug or projection 20, to which is pivoted a pawl or dog 21, adapted to engage the teeth of the rack-bar 6. This dog or pawl lies above the guideway 22, formed upon the said upwardly-extending arm of the bell-crank lever, which guideway serves to retain the rack-bar in a

determined position and to guide it in its movements, thus preventing the piston from binding against the inner wall of the reservoir.

In the operation of the tool, assuming the reservoir to be supplied with putty, it will be understood that upon the upward pressure of the handle 15 the vertical arm of the bell-crank lever will be forced forward, carrying with it the pawl 21, which will engage one of the teeth on the rack-bar and force the piston forward a predetermined distance, thus expelling a certain amount of putty from the nozzle, which putty may then be applied by the knife upon a proper manipulation of the tool. Upon the release of the handle 15 the latter then drops by gravity down to its normal position, thus drawing back the pawl the space of one tooth, so that an ensuing upward movement of the handle 15 will effect the discharge of a similar quantity of putty in like manner. From this statement the operation of the tool will be readily understood, and it will be seen that by the described construction and relation of the parts the retraction of the power-transmitting device is not only automatic, but that through the bell-crank lever a great leverage may be applied to force the putty forward, thus allowing a somewhat contracted nozzle to be used to exert enough working action on the putty to smooth it out and make it soft for free application and use. The detachable connection of the nozzle allows this part of the tool to be conveniently detached for the removal of hardened putty when occasion requires.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A tool of the character described, comprising a reservoir having an outlet, means for feeding the material from the reservoir to said outlet, and a nozzle having a slidable detachable connection with the reservoir, and carrying an applying device, substantially as described.

2. A tool of the class described, comprising a reservoir having an outlet and a nozzle-holder forming a guideway communicating with said outlet, said guideway having its entrance below the outlet, means for forcing the material through said outlet, and a nozzle having a bracket-plate detachably engaging said holder and carrying an applying device so arranged that the working pressure thereon will be in the direction of movement of the bracket-plate in entering said guideway, substantially as described.

3. In a tool of the character described, the combination of a reservoir, a piston therein provided with a rack-bar, a fixed handle on one side of the reservoir, a movable handle on the opposite side of the reservoir, a bell-crank lever pivoted to the reservoir, said bell-crank lever having one arm connected to the movable handle and the other arm formed with a guideway and a supporting-lug projecting from one side of said guideway, and a pawl carried by said lug and arranged above the guideway to engage the rack-bar, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM T. SELLEY.

Witnesses:
W. B. BALLARD,
J. M. ROBB.