J. H. JOHNSON.

AUTOMATIC PUTTY KNIFE.

APPLICATION FILED APR. 28, 1908.

924,469.

Patented June 8, 1909.

2 SHEETS—SHEET 1.

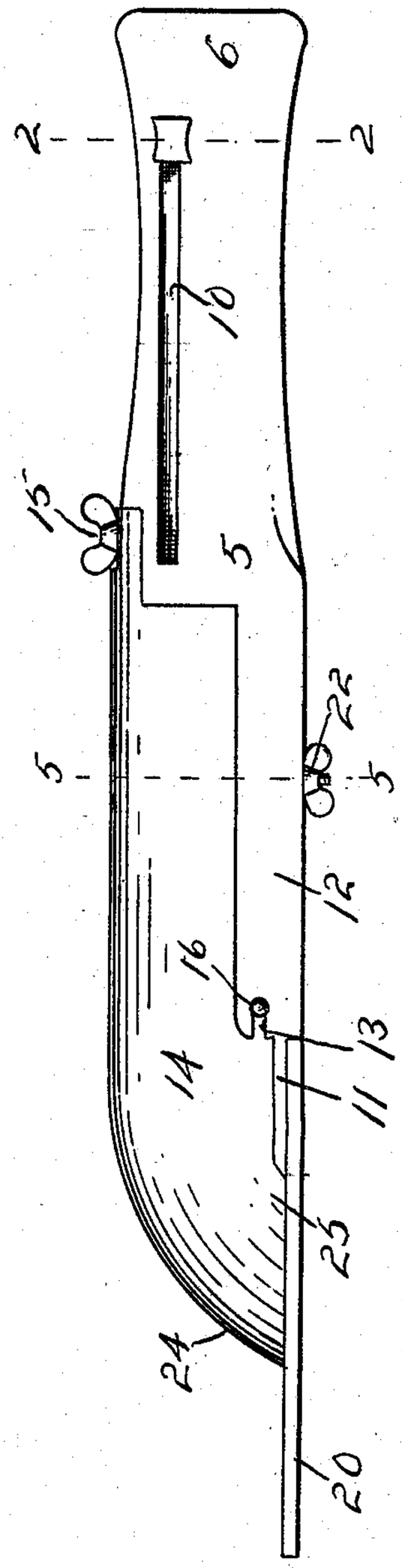

Fig. 1.

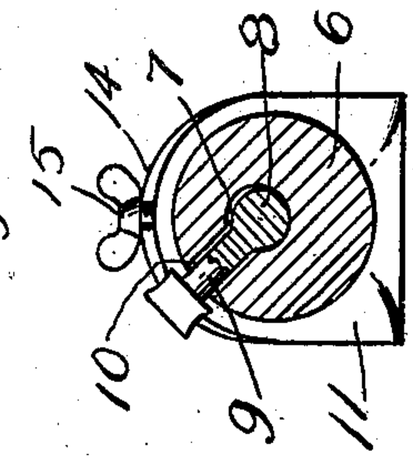

Fig. 3.

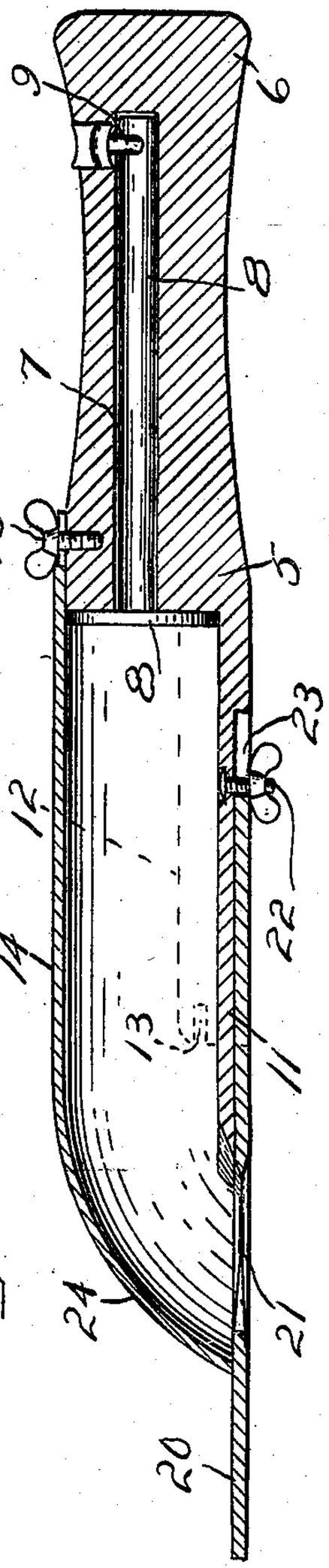

Fig. 2.

Witnesses

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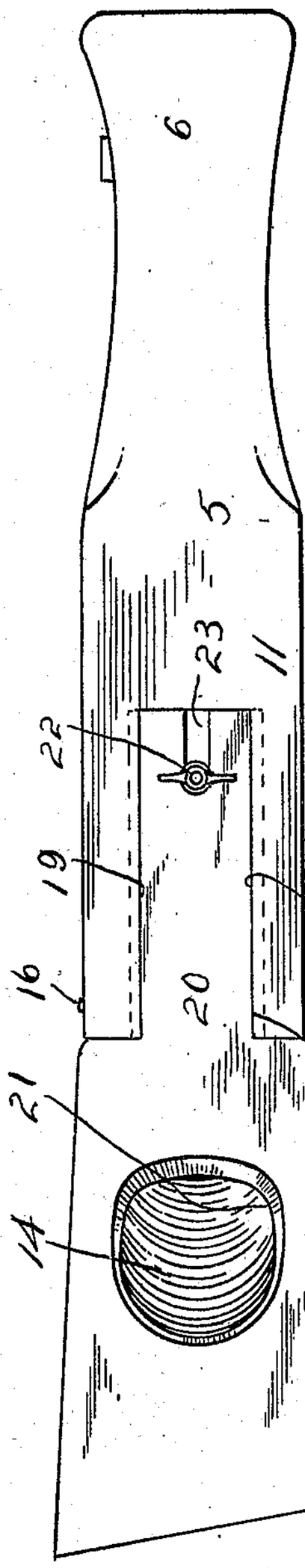

Fig. 4.

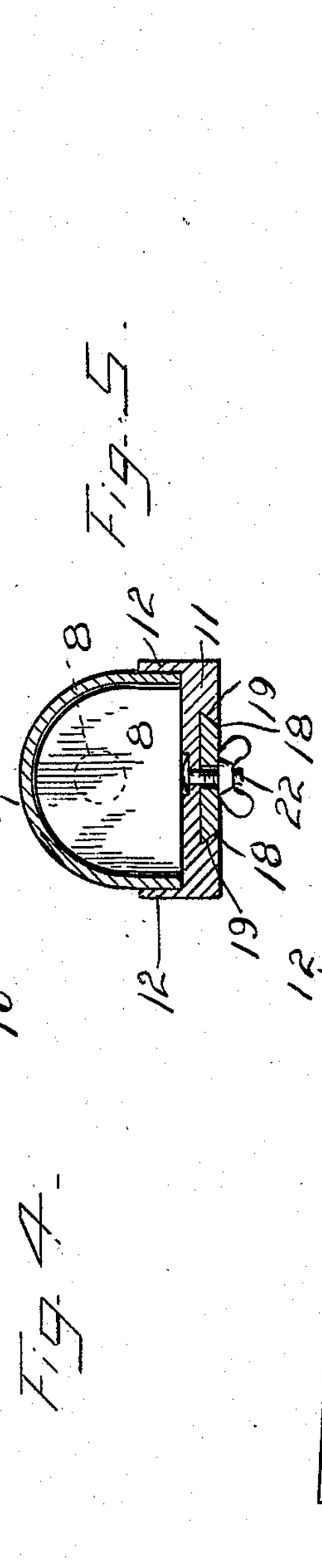

Fig. 5.

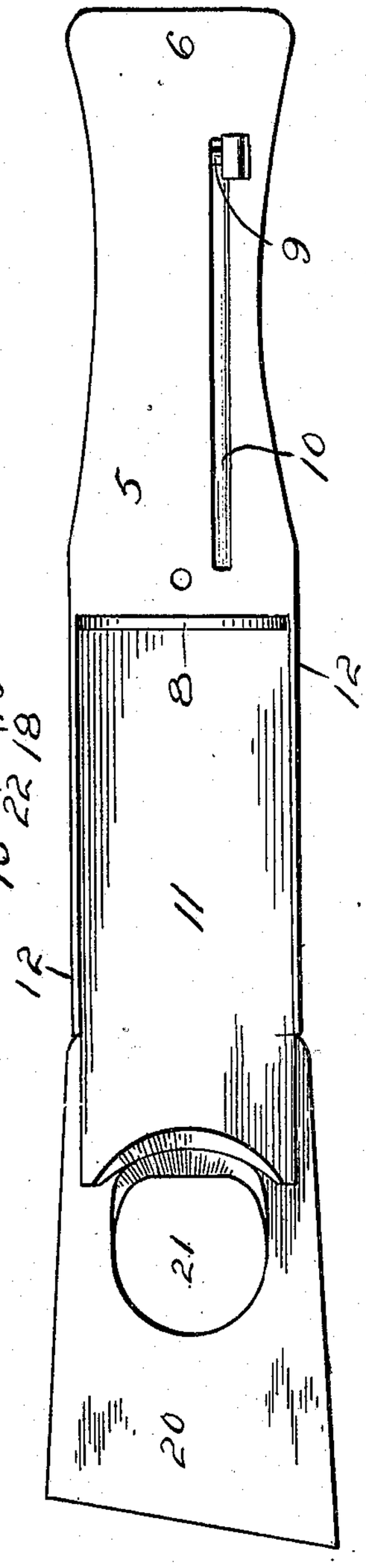

Fig. 6.

Witnesses

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UNITED STATES PATENT OFFICE.

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AUTOMATIC PUTTY-KNIFE.

No. 924,469. Specification of Letters Patent. Patented June 8, 1909.

Application filed April 28, 1908. Serial No. 429,733.

To all whom it may concern:

Be it known that I, JOHN H. JOHNSON, a citizen of the United States, residing at Appleton, in the county of Swift, State of Minnesota, have invented certain new and useful Improvements in Automatic Putty-Knives; 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 relates to tools and more specifically to putty knives wherein the putty is automatically fed in whatever quantities it is desired and which may then be worked in the usual manner.

One of the objects of the invention is to provide a combination of a putty-holding receptacle with a putty knife and means for feeding the putty to the knife by merely pushing a button which is attached to a plunger whereby the feeding of the putty and the manipulation of the knife may be done by one hand.

Other objects are to provide a putty knife equipped with means for feeding putty to the knife which will be simple in construction and durable in use.

Further objects and advantages will be apparent from the following description, and it will be understood that modifications of the specific construction shown may be made without departing from the spirit of the invention.

In the drawings, accompanying and forming a part of this specification, and in which like numerals of reference indicate like parts throughout the several views, Figure 1 is a side elevation. Fig. 2 is a longitudinal section. Fig. 3 is a cross section taken on the line 2—2 of Fig. 1. Fig. 4 is a plan view showing the manner in which the knife is detachably connected to the frame. Fig. 5 is a cross section taken on the line 5—5 of Fig. 1. Fig. 6 is a top plan view with the putty holding shell removed.

The numeral 5 indicates the body portion or frame of my invention, a handle 6 is integrally secured to said frame 5. The said handle 6 is provided with a hollow tubular central portion 7 which is adapted to receive the plunger rod 8. Adjacent to the rear end of the plunger rod 8 and attached thereto is a projecting arm 9 which extends outwardly through the longitudinal slot 10 in the handle 6. This projecting arm 9 has an enlarged end portion whereby the plunger may be reciprocated the more easily.

The portion 11 of the body or frame of my invention is provided with guiding or retaining strips 12 which may be either integral with the said body or may be independent thereof. The front ends of these guide strips are slotted as at 13.

14 indicates a putty holding shell which is adapted to slide between the guide strips 12 and which will be held securely in position by means of a projecting rear portion which will overlie the top of the handle 6 and be securely held thereto by means of the thumb screw 15. Lugs 16 project outwardly adjacent to the front of the side portions of the said shell which are adapted to engage within slots 13 in the guide strips 12.

It will be seen that the shell 14 is inclosed on three sides only and that the portion 11 of the frame 5 will serve as the fourth side and will act as a bottom for the putty receptacle.

The bottom or under side of the portion or base 11 is channeled out as at 18 having dove-tailed ways 19 to receive the shank of the reversible putty knife 20, which is of corresponding dove-tailed form.

It will be seen that the putty knife 20 is of substantially the usual shape but is provided with an aperture adjacent to the center of the blade, as at 21, the edges of said aperture being beveled to the center from both ends.

When the putty knife 20 is in operative position, it is held securely by the thumb screw 22 fitting in the slot 23 in the end of the shank of the putty knife 20. The aperture 21 of the knife 20 will lie in alinement with the arc shaped end of the base 11. Further it will be seen that the putty holding receptacle or shell 14 is somewhat longer than the base 11 and that toward its forward end is tapered, as at 24. Adjacent to the tapered end or toe portion 24 this receptacle is extended downwardly as at 25 so that the under edges of the said portion will be flush with the under surface of the base 11 and will also be placed in close contact with the flat part of the knife blade 20.

The operation of the device is as follows: If it is desired to apply the putty from left to right to any given structure, the knife is properly adjusted and the button is then pushed forward thus forcing the plunger and the putty forward. When the putty strikes the forward or tapering portion of the putty receptacle it is then deflected downward and

thus through the aperture in the knife whence it is ready for spreading.

It will be seen that if the putty is to be applied from right to left, the knife is reversed and the operation of the other parts is the same.

What is claimed, is:—

1. In a device of the class described, a hollow body portion having an opening through its bottom and a putty knife secured to said bottom and provided with an aperture therethrough, the aperture of the said body portion registering with the aperture in the knife, and means for forcing the putty from the hollow body portion out through the above mentioned apertures.

2. A device of the class described comprising a hollow body portion having an aperture at the forward end of its bottom, a putty knife detachably secured thereto and provided with an aperture, the aperture in the body portion adapted to register with the aperture in the knife, and means for forcing the putty from the hollow body portion through the above mentioned apertures.

3. A device of the class described comprising a hollow body portion having an aperture at the forward end of its bottom, a detachable and reversible putty knife secured thereto and provided with an aperture, which registers with the aperture in the bottom of the body portion, and means for forcing the putty from the hollow body portion out through the said apertures.

4. In a device of the class described, the combination with a putty knife, of a hollow body portion, said body portion comprising a base to which said knife is secured, and a hollow shell detachably secured to said base.

5. In a device of the class described, the combination of a hollow body portion, a handle integrally secured to said body portion, said body portion comprising a base portion having guideways extending upwardly from each side, the under face of said base portion having channeled ways for the reception of the shank of the putty knife, a hollow shell adapted to slide between the guideways of the base, said hollow shell tapered downwardly at its forward end, the said hollow shell being longer than the base portion thus leaving an aperture through the bottom at its forward end, with a knife, said knife consisting of a shank slidably secured in the channeled way on the under face of the said base portion, a blade integrally secured to said shank, said blade having an aperture adjacent the center thereof, the edges of said aperture being beveled from both sides toward the center, the aperture in the said knife registering with the aperture in the bottom of the body portion, means for forcing the putty from the hollow body portion out through the above mentioned apertures, substantially as described.

6. In a device of the class described, the combination of a body portion, said body portion comprising a base, a hollow shell resting upon and secured to said base, the forward end of said shell being tapered downwardly, the edges of the tapered portion of said shell extending downwardly so that they will lie flush with the under face of the said base, the said shell being longer than the said base so that an aperture will be formed in the bottom of the body portion at its forward end, with a knife, said knife provided with an aperture therethrough, said aperture registering with the aperture in the bottom of the body portion, and means for forcing the putty from the hollow body portion out through the above mentioned apertures, substantially as described.

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

JOHN H. JOHNSON.

Witnesses:
J. T. WILKINSON,
B. O. JOHNSON.