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1,604,786

V. S. RINALDI

CALKING TOOL

Filed May 6, 1926

Fig. 1.

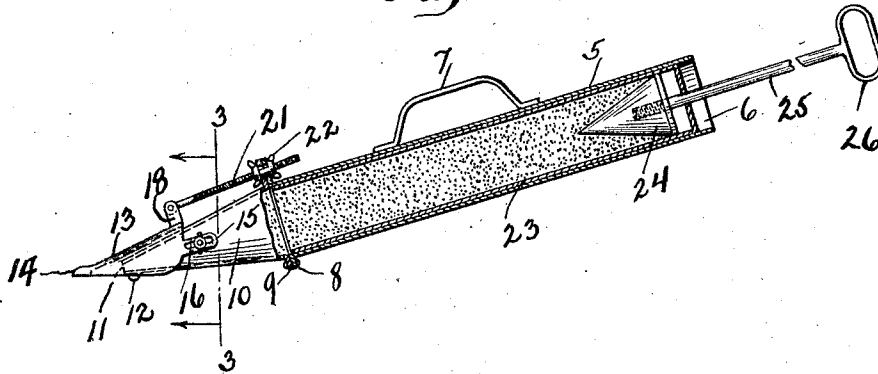


Fig. 2.

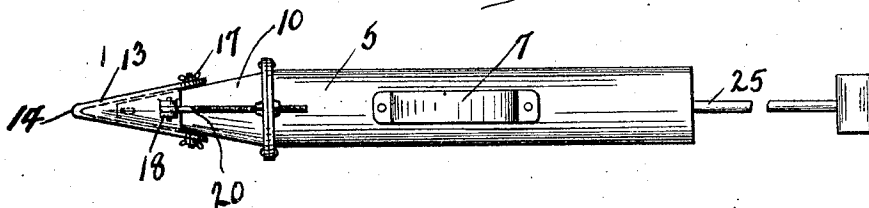


Fig. 3.

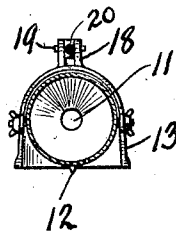


Fig. 4.

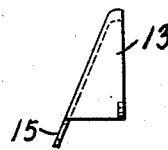
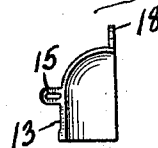


Fig. 5.



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By his Attorney

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CALKING TOOL.

Application filed May 6, 1926. Serial No. 107,042.

This invention relates to dispensing and material discharging tools, instruments or devices and more particularly to a novel and improved construction for feeding a predetermined quantity of a plastic or semi-plastic material such as putty and cement in the seams or crevices for instance when calking a vessel for instance.

One of the objects of my invention is to produce a tool or instrument designed to discharge a plastic or semi-plastic material in a regular stream or ribbon in the seam or crevice within or between two members, and at the same time push or force the discharged material into the seam or crevice as the tool is being moved.

Another object of my invention is to produce what may be termed a calking tool or instrument, although it is capable of other uses, in which a plastic or semi-plastic material is discharged through one end in a regular stream or ribbon, including provision for regulating the quantity being discharged in accordance with its consistency.

A further object of my invention is to produce a tool of the character above described in which the material as discharged is pressed or forced within the recess or crevice including provision for feeding the plastic or semi-plastic from one end of the tool and further provision for pressing and forcing the material within the corners or between members substantially at right angles to each other.

With the above objects in view and others which will be readily suggested as the description proceeds, reference is had to the accompanying drawing showing a preferred embodiment of my invention in which—

Fig. 1 is a longitudinal view, partly in section showing the housing and material barrel or container therein.

Fig. 2 is a plan.

Fig. 3 is a view taken substantially on the line 3—3 of Fig. 1.

Fig. 4 is a plan of a modified form of presser or pusher head.

Fig. 5 is another view of the modified head.

Referring now to the drawings wherein like reference characters designate corresponding parts throughout the several views, 5 designates a cylindrical housing which is open at its end 6 and provided

with a top handle 7. The opposite end of the housing is formed with an annular flange 8 to which is connected the flange 9 of a frusto-conical feeding head 10 having an opening 11 through which the plastic or semi-plastic material may be fed. A spur 12 on the bottom of the feeding head permits the tool to be guided in the seam or crevice within which the material is to be fed.

On the feeding head 10, I provide an adjustable pusher or presser 13, somewhat in the form and shape of an inverted scoop or shovel but having a straight tip or end 14, the function of which is to press or force the material into the seam or crevice as it is discharged through the opening 11 and as the tool or instrument is drawn backward or toward the person so using it. The presser or pusher 13 is open along its bottom, the top being shaped to conform to the contour of the head 10, and is also provided with side extensions 15 having slots 16 therethrough for the thumb nuts or other fastening elements 17 whereby the tip or end 14 may be adjusted relatively to the opening 11. Consequently the quantity of material being fed may be regulated by adjusting the pusher which is also provided with the top ears 18 connected by a transverse pin 19 to the end 20 of a threaded adjusting screw 21. The adjusting screw passes through the flanges of the housing and head 10 and fastened thereto by the thumb nuts 22. When the side thumb nuts 17 are loosened, the presser or pusher may be thrown back on the transverse pin 19 which acts as a pivot.

The material to be dispensed which is usually in a plastic or semi-plastic state, such as putty or cement is confined in a barrel or cylinder 23 which fits into the open end of the housing. In the end of the cylinder or barrel 23 there may be a plunger 24, preferably conical shaped, which is threaded for attachment with the end of a threaded push rod 25 having an operating handle 26. The said handle of course passes through an opening in the end of the cylinder or barrel so that it may force the plunger and thus discharge the material through the opening 11.

It will be understood that the quantity of the material to be discharged may be

regulated by the adjustment of the pusher or presser and particularly the end thereof with relation to the opening 11. The spur guides the tool in the crevice as the same is drawn along and toward the person.

Having shown and described my invention what I now claim as new and desire to secure by Letters Patent of the United States is:

1. A device of the class described comprising a housing open at one end to receive a quantity of material therein and having a restricted opening at its opposite end, means for discharging the material through the restricted opening, an adjustable presser or pushing member attached to said housing, said presser or pushing member overlying the discharge end of the housing and having a straight tip in advance of the restricted opening whereby the material may be en-

gaged as the device is moved toward the operator.

2. A device of the class described comprising a housing, a material receiving barrel adapted to be inserted through one end of the barrel, the opposite end of the barrel being cone-shaped and having a restricted opening therein, a longitudinally adjustable presser or pusher member attached to the sides of the cone-shaped end of the housing, said presser or pusher member overlying the top and sides of the barrel and terminating in a restricted tip located in advance of the restricted opening and adapted to engage the material discharged as the device is moved toward the operator.

Signed at New York, in the county of New York, and State of New York, this 17th day of February, A. D. 1926.

VINCENT S. RINALDI.