

No. 786,889.

PATENTED APR. 11, 1905.

H. M. FORBES.
LAUNDRY DAMPENING TOOL.
APPLICATION FILED OCT. 17, 1904.

Fig. 2.

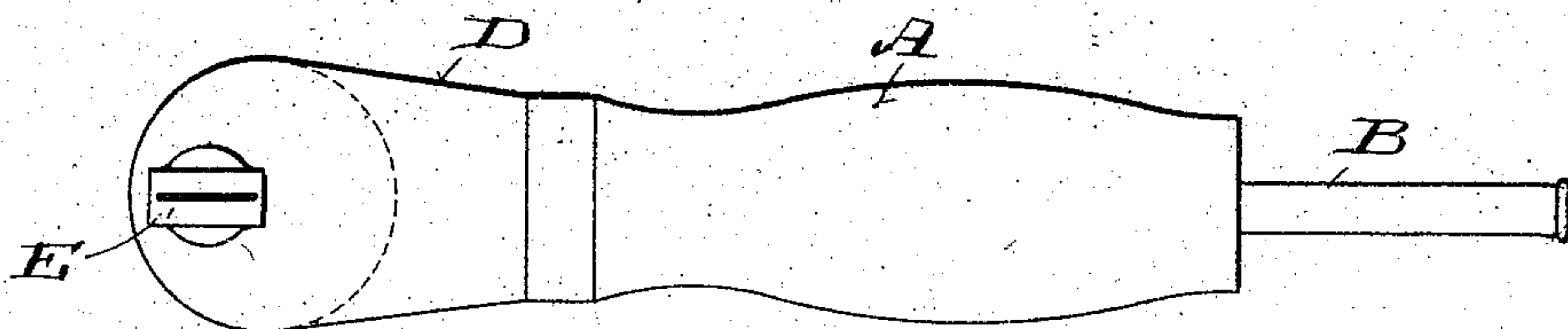


Fig. 1.

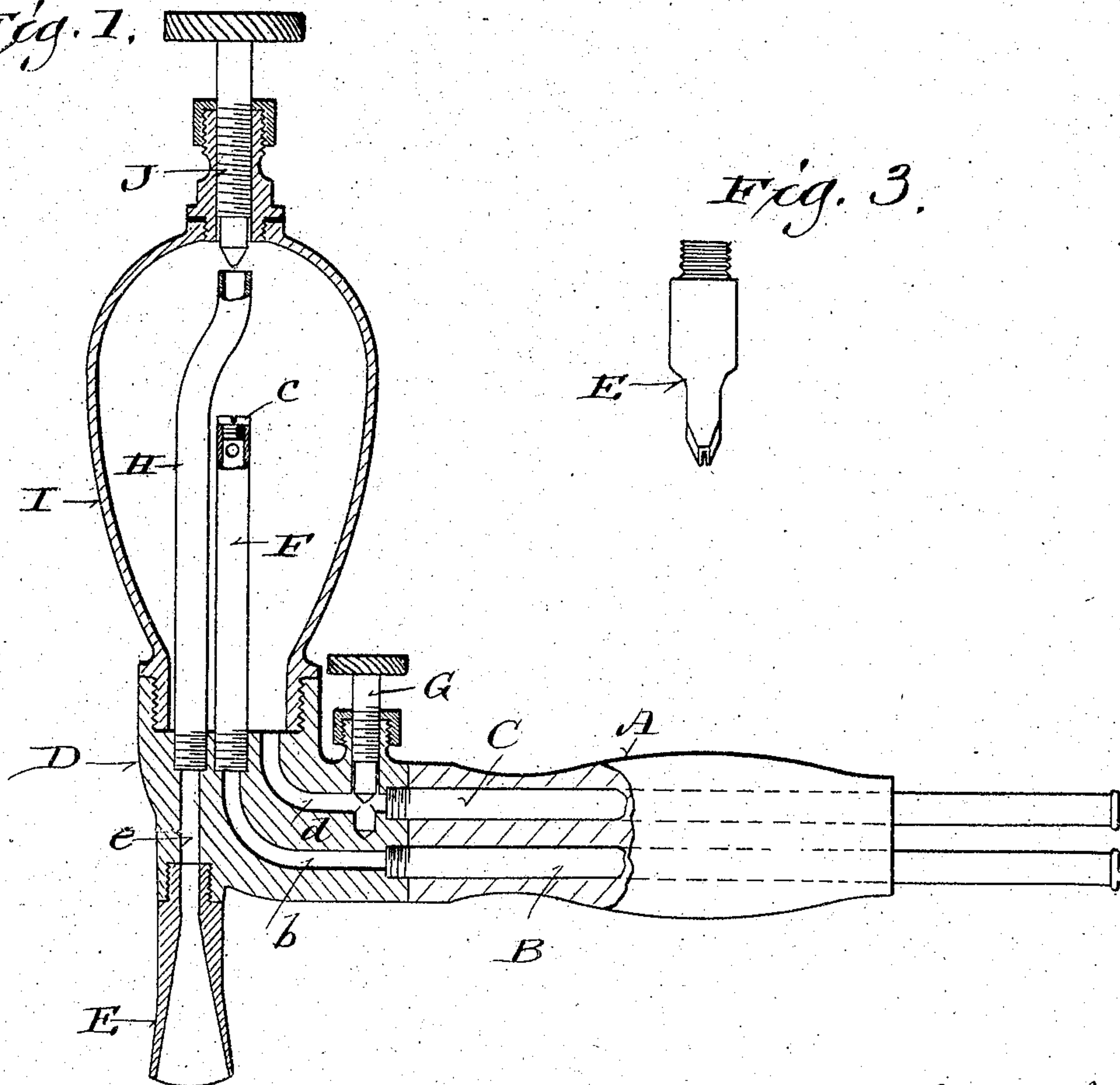
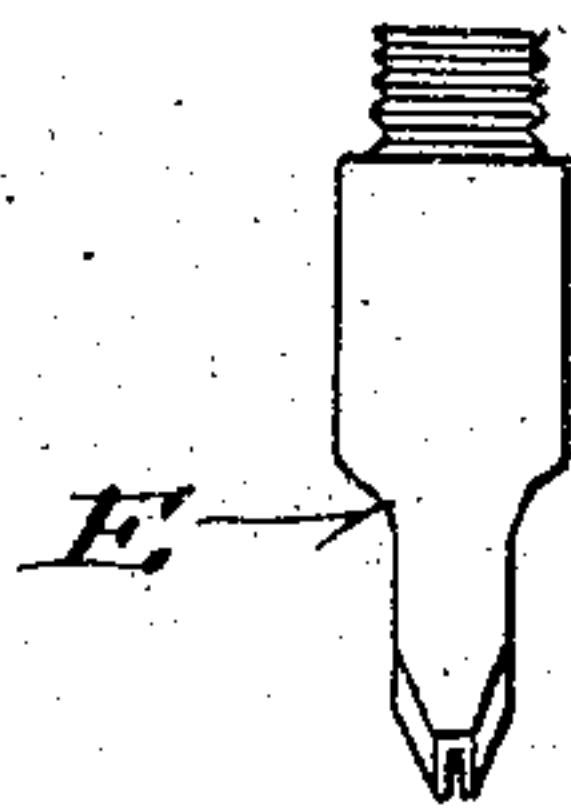


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY M. FORBES, OF PORTAGE, WISCONSIN, ASSIGNOR OF THREE-FOURTHS TO JESSE M. RUSSELL, RICHARD H. DALTON, AND FRANK THOMPSON, OF PORTAGE, WISCONSIN.

LAUNDRY DAMPENING-TOOL.

SPECIFICATION forming part of Letters Patent No. 786,889, dated April 11, 1905.

Application filed October 17, 1904. Serial No. 228,753.

To all whom it may concern:

Be it known that I, HENRY M. FORBES, a citizen of the United States, and a resident of Portage, in the county of Columbia and State of Wisconsin, have invented certain new and useful Improvements in Laundry Dampening-Tools; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide for the use of dry steam for dampening operations on starched laundered goods; and it consists in a simple economical tool embodying certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents what is for the most part a sectional view of a tool in accordance with my invention; Fig. 2, a plan view of the same inverted, and Fig. 3 an elevation of a nozzle that constitutes part of the tool.

Referring by letter to the drawings, A indicates a handle, that is preferably of wood or other suitable material either a poor conductor of heat or a non-conductor of same. Extending through the handle, longitudinally of the same, are tubes B C for connection with hose, one line of which is connected to a source of steam-supply, the other line being connected to a water-receptacle or drain. The forward ends of the tubes are screw-threaded in a channeled elbow D, that abuts the handle A to form therewith what is hereinafter referred to as the "shank" of the tool, and a depending nozzle E has screw-thread connection with the elbow. One of the channels *b* in the elbow registers with the tube B and with a vertically-disposed tube F, that is screw-threaded at its lower end in said elbow, the upper end of this tube being closed by a screw-plug *c*, or otherwise, and provided with a lateral port or ports. Another channel, *d*, in the elbow registers with the tube C, and a pin-valve G is employed in connection with said elbow to control said channel. The remaining channel *e* in the elbow registers with the nozzle E

and with another vertically-disposed tube, H, that is screw-threaded at its lower end in said elbow. The upper end of the tube H is bent to be on center with the tube F and screw-threaded in the elbow D to inclose the tubes F H, and inlet end of channel *d* is the vertically-extended shouldered lower end of a preferably ovoidal steam-dome I, provided at its upper end with a central pin-valve J, adjustable to control the adjacent end of the crooked tube H, that extends upward beyond its companion tube.

The lower end of the nozzle E of the tool is preferably wedge-shaped, and its mouth is preferably elongated in a direction longitudinally of said tool, as is herein shown.

In practice live steam let into the passage formed by the tube B and channel *b* of the tool-shank finds its way into the tube F, from whence it escapes through the upper lateral port or ports of same to be projected against the dome I and deprived of its moisture. The dry steam in the dome finds its outlet by way of the tube H and the passage formed by the elbow-channel *e* and nozzle E, this steam being as dry as possible at the mouth of said nozzle. The water of condensation forming in the dome escapes through the passage formed by the elbow-channel *d* and tube C, and the steam-pressure in said dome is regulated by adjustment of the valves G J aforesaid.

It has been found that dry steam applied to stiff starched laundered goods will make the same pliable without detriment to the strength of the starch or deadening of the finest gloss-finish of said goods, and the tool herein set forth is especially designed for the use of shirt-collar finishers in laundries, the dry steam being applied to the dull-finished side of the collar in the flat, along the line of fold of same preliminary to doubling said collar and passing same between the rollers by which the fold is laid. The collar having been made pliable at the fold by the dry-steam treatment, it folds easily without breaking and no burnish of its folded edge is necessary after it has been passed between the fold-laying rollers.

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

5 1. A laundry-tool comprising a shank provided with inlet and outlet steam-passages and a water-of-condensation passage, tubes in register with the steam-passages, the inlet-tube being the shortest and having no outlet other than a lateral port or ports; and a dome inclosing said tubes and the inlet of said water-
10 of-condensation passage.

2. A laundry-tool comprising a shank provided with inlet and outlet steam-passages and a water-of-condensation passage, a valve adjustable to control the latter passage, tubes
15 in register with the steam-passages, the inlet-tube being the shortest and having no outlet other than a lateral port or ports; and a dome inclosing said tubes and the inlet of said water-of-condensation passage.
20

3. A laundry-tool comprising a shank provided with inlet and outlet steam-passages and a water-of-condensation passage, tubes in register with the steam-passages, the inlet-tube
25 being shortest and having no outlet other than a lateral port or ports; a dome inclosing said tubes and the inlet of said water-of-condensation passage, and a valve arranged in connection with the dome to control the escape of
30 steam through the longest of the aforesaid tubes.

4. A laundry-tool comprising a shank provided with inlet and outlet steam-passages and a water-of-condensation passage, tubes in register with the steam-passages, the inlet-tube
35 being the shortest and having no outlet other than a lateral port or ports; a dome inclosing said tubes and the inlet of the water-of-condensation passage, and valves in connection with the shank and dome for controlling said
40 water-of-condensation passage and the longest of the aforesaid tubes.

5. A laundry-tool comprising a shank provided with inlet and outlet steam-passages, a water-of-condensation passage and a nozzle
45 that constitutes part of the outlet-passage the working end of this nozzle being wedge-shaped and its mouth elongated in a direction longitudinally of the shank; tubes in register with the steam-passages, the inlet-tube being shortest
50 and having no outlet other than a lateral port or ports; and a dome inclosing said tubes and the inlet of said water-of-condensation passage.

In testimony that I claim the foregoing I
55 have hereunto set my hand, at Portage, in the county of Columbia and State of Wisconsin, in the presence of two witnesses.

HENRY M. FORBES.

Witnesses:

A. F. KELLOGG,
Mrs. M. J. WELSH.