

(No Model.)

W. RILEY.

Manufacture of Felted Hats and Machine Therefor.
No. 243,159.

Patented June 21, 1881.

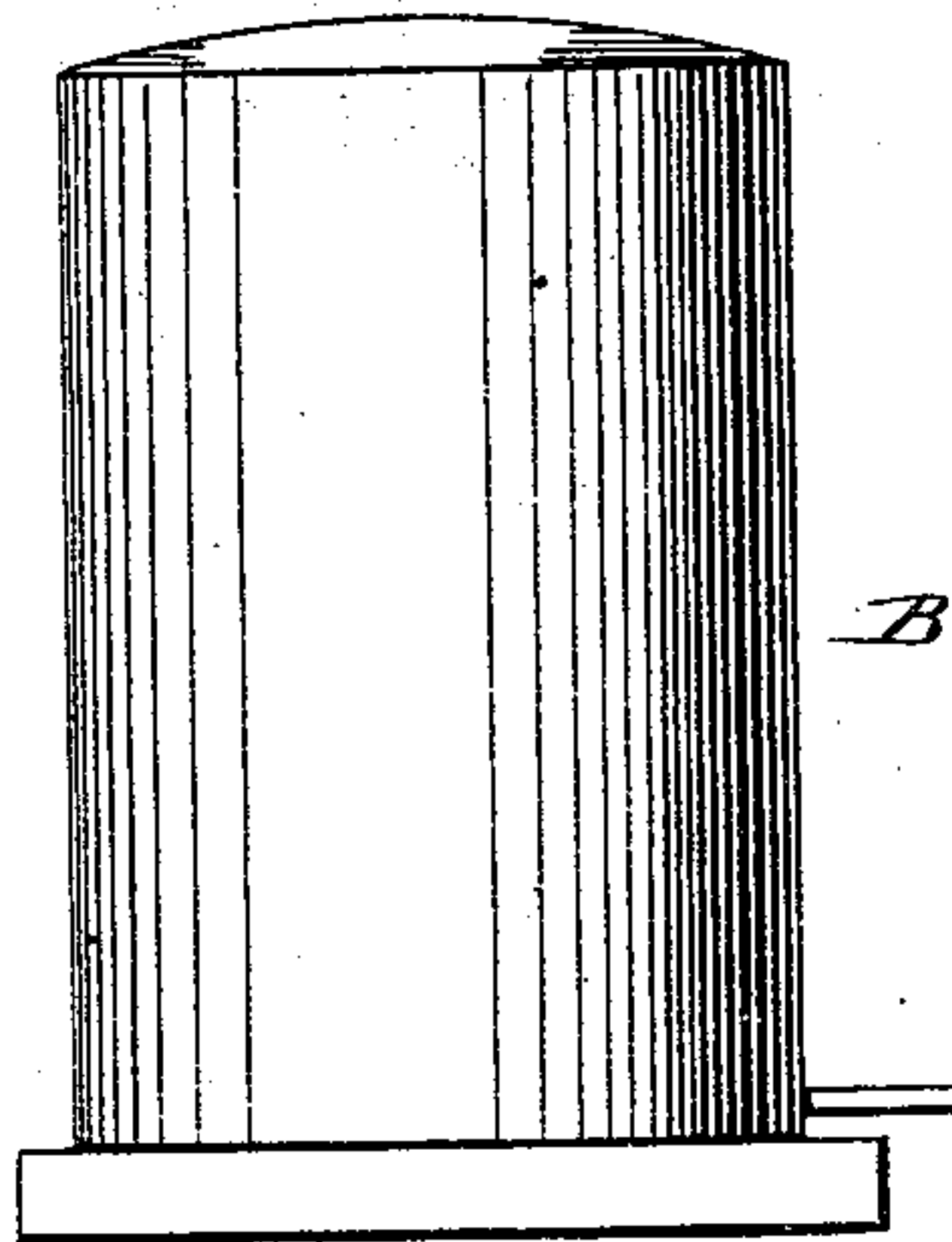


Fig. 1.

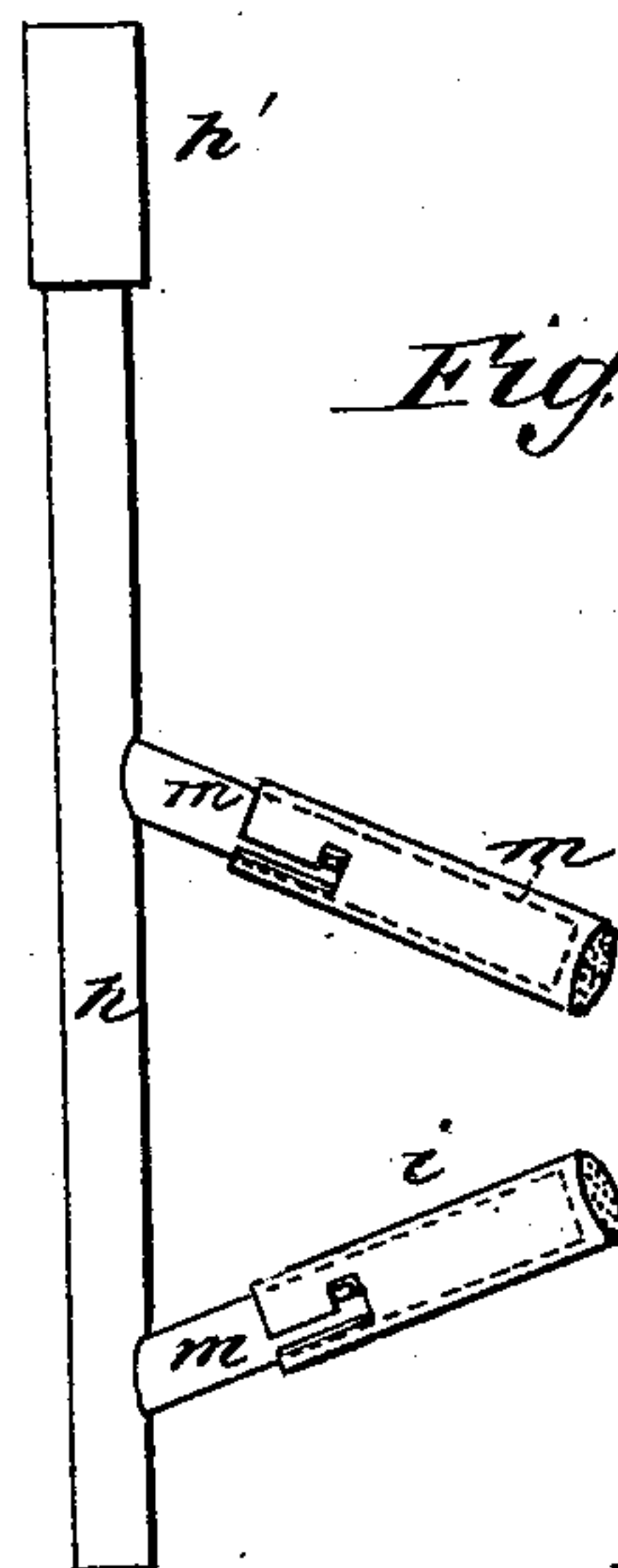
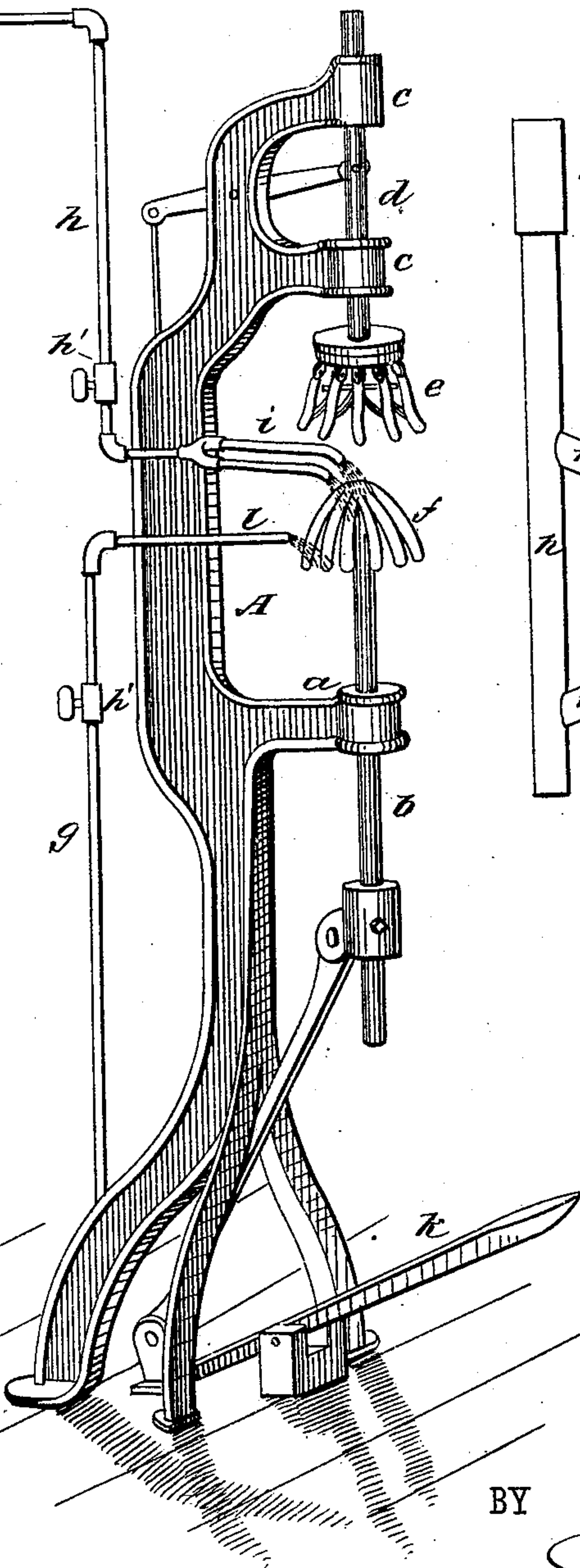


Fig. 2.

WITNESSES:

F. McArdle.
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INVENTOR:

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM RILEY, OF DANNEMORA, NEW YORK, ASSIGNOR TO HIMSELF AND
WILLIAM CARROLL, OF NEW YORK, N. Y.

MANUFACTURE OF FELTED HATS, AND MACHINE THEREFOR.

SPECIFICATION forming part of Letters Patent No. 243,159, dated June 21, 1881.

Application filed April 4, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM RILEY, of Dannemora, in the county of Clinton and State of New York, have invented a new and useful Improvement in Manufacture of Felted Hats, and Machines Therefor, of which the following is a specification.

The invention consists in combining jet-pipes and a hot-water-supply pipe with a hat-block, and in combining cold and hot water supply pipes having rose-jets with the hat-block and stretcher, all as hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view of a hat-tipping machine containing my improvements; and Fig. 2 is a detail view, showing a modification of the jet-pipes.

Similar letters of reference indicate corresponding parts.

The machine shown is of ordinary construction, consisting of a stand, A, formed with arm *a*, which carries the shaft *b*, on the upper end of which is the block *f*, and also formed with upper arms, *c c*, carrying shaft *d*, on the lower end of which is the stretcher or presser *e*. The shaft *d* is fitted for reciprocation vertically by the treadle *k*, in the usual manner. The block *f* is composed of curved arms of the required shape, and the presser is formed with pivoted fingers shaped to fit over the block *f*, all as usual.

B is a hot-water tank, from which a pipe, *h*, passes downward to the side of the machine. On the end of the pipe *h* there are two jet-pipes, *i*, extending over the block *f*, and having their ends formed or fitted with a rose, so that the water shall be sprayed upon the whole surface of the hat.

g is a pipe leading from a suitable source of cold-water supply, and rising at the side of stand A. The end of this pipe is fitted with a

jet-pipe, *l*, terminating in position for discharge of water upon the brim of the hat. Both of the pipes have their ends carrying the jets connected by couplings, as shown at *h'*, which allow the jets to be turned to the position desired or at one side out of the way.

In operation, the hat being on block *f*, it is kept saturated by the hot water from the jets while the tip is being stretched, thus saving the time and labor of removal and insertion in hot water, as usually required. At the same time the liability of bursting and straining is avoided. The jet of cold water keeps the brim cool, so the workman may handle the hat.

In Fig. 2 the jets consist of caps *i*, fitted loosely on nipples *m*, projecting from pipe *h*, on which the caps are held by pins engaging angular slots in the caps, to form a bayonet-fastening.

I do not limit myself to these or other details of construction.

I am aware that it is not new to admit steam into a closed chamber where the blocking and stretching mechanism are located.

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

1. In hat-tipping machines, the pipes *i* and hot-water-supply pipe *h*, in combination with the hat-block *f*, substantially as and for the purposes set forth.

2. The combination, in a hat-tipping machine, of cold and hot water supply pipes *g h*, provided with rose-jets or nozzles, the hat-block *f*, and stretcher *e*, substantially as shown and described, for operation as specified.

WILLIAM RILEY.

Witnesses:

J. J. MCGOWAN,
G. M. CLARK.