A. K. BRETTELL.

Ironing Apparatus.

No. 204,128. Patented May 28, 1878.

FIG. 1.

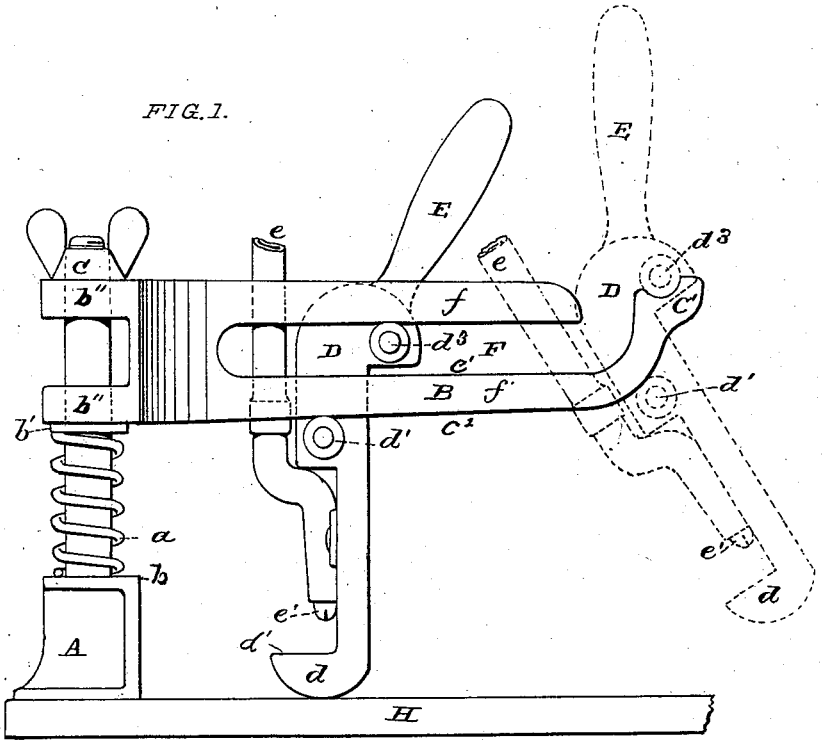
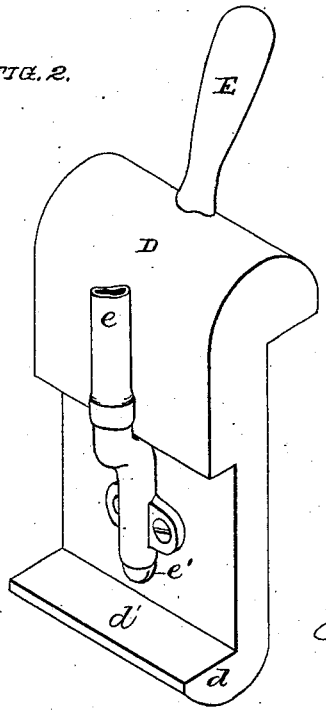


FIG. 2.



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AMBROSE K. BRETTELL, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN IRONING APPARATUS.

Specification forming part of Letters Patent No. **204,128**, dated May 28, 1878; application filed April 12, 1877.

To all whom it may concern:

Be it known that I, AMBROSE K. BRETTELL, of St. Louis, in the county of St. Louis and State of Missouri, have invented a new and useful Improvement in Laundry-Polishers, which improvement is set forth in the following specification, reference being had to the accompanying drawings.

In the drawings accompanying and forming part of this specification, Figure 1 represents a side elevation view of my invention. Fig. 2 represents a view, in perspective, of the polisher.

The object of my invention is the construction of a machine whereby the polish that is admired and so protective to fibrous fabrics against soiling is rapidly and perfectly done by the friction of a heated polisher, which is caused to pass rapidly in any desired direction over a shirt-bosom, collar, or other article of linen or cotton.

The frame-work of my machine I propose to make of iron, which will include the standard and swinging polishing-arm. The polisher, for better retention of heat, I prefer to make of brass or bronze. The board or table is to be of wood. The machine is compact, and can be used on the top of any table.

The standard A is firmly secured to the board H, as shown in the accompanying drawings. The standard is reduced by turning the upper part of it to a size which will allow a coiled lifting-spring, *a*, to be loosely placed outside of the reduced part, and with its lower end resting on a washer-plate, *b*. Over the upper end of the spring is placed washer *b'*. The swinging arm B is placed on the standard, with its under side resting on the washer *b'*, and secured from working slack or from springing upward by the thumb-nut *c*, which sets the swinging arm down so low on the spring *a* as to cause the polisher to work with considerable pressure. The swinging arm B is to be of metal. Its steadiness on the standard A is obtained by the separated bearings *b'' b''*, which fit closely on the standard and form a joint. The swinging arm is open through its vertical center, for the reception of the polisher-head D. In the slot F is to run the wheel d^3, while underneath the arm B is also placed a similar wheel, d^1. These wheels revolve on axles which are attached to the polishing-head D, and when the handle E is drawn toward the operator the wheel d^3 bears down on the track c^1, while at the same time the wheel d^1 bears upward against the under track c^2. The polisher-head, when moved inwardly and outwardly by the operator's hand upon the handle E, is caused to run easily by the intervention of the rollers.

The heating of the polisher is principally to be effected by the combustion of a jet of gas, *d* being the polisher, e^1 the gas-burner, and *e* a flexible gas-tube leading thereto from above. The polisher is to be rapidly moved in any desired horizontal direction over the fabric, which is to be placed on the table H. When it is necessary to place a piece of goods under the polisher, the head must be moved outward and raised up to seats on the bracket C', in which the rollers d^3 are dropped, the polishing-head being suspended, as shown in dotted lines in Fig. 1. This change of the polisher is not required for collars, cuffs, or other small articles.

The operation of my invention is very simple. When the parts are adjusted to proper working order and the polisher heated by the burner *e'*, it is only then necessary to place on the table H the piece of goods, too great heat in the polisher or any required adjustment of the swinging arm being attended to through the parts provided therefor.

I am well aware that numerous patents for devices toward the same end as mine have been granted in the United States and in Europe, prominent among which are the inventions of Laurent Berenger, J. B. Storrs, Sternberger & Pfautz, and A. G. Gardner, from all of whom I conceive that I essentially differ.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a polishing-machine, the gas-heated polisher *d* and polisher-head D, combined with swinging frame B by friction-rollers d^1 d^3, and with the standard A, spring *a*, and set-screw *c* by the double joint *b''*, as shown.

2. The polishing-head D, having the recessed body to receive the gas-jet e', and provided with the polisher d, having an upper flat surface, d^1, directly beneath the jet e', as and for the purpose set forth.

3. The swinging frame B, having the slot F, and the two parallel arms f' f', the lower arm terminating in the upwardly-curved bracket C′, having a semicircular notch to receive and support the polisher D, as set forth.

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Witnesses:

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