(No Model.)

J. B. FOLEY.

PLAITING MACHINE.

No. 293,239. Patented Feb. 12, 1884.

Fig. 1

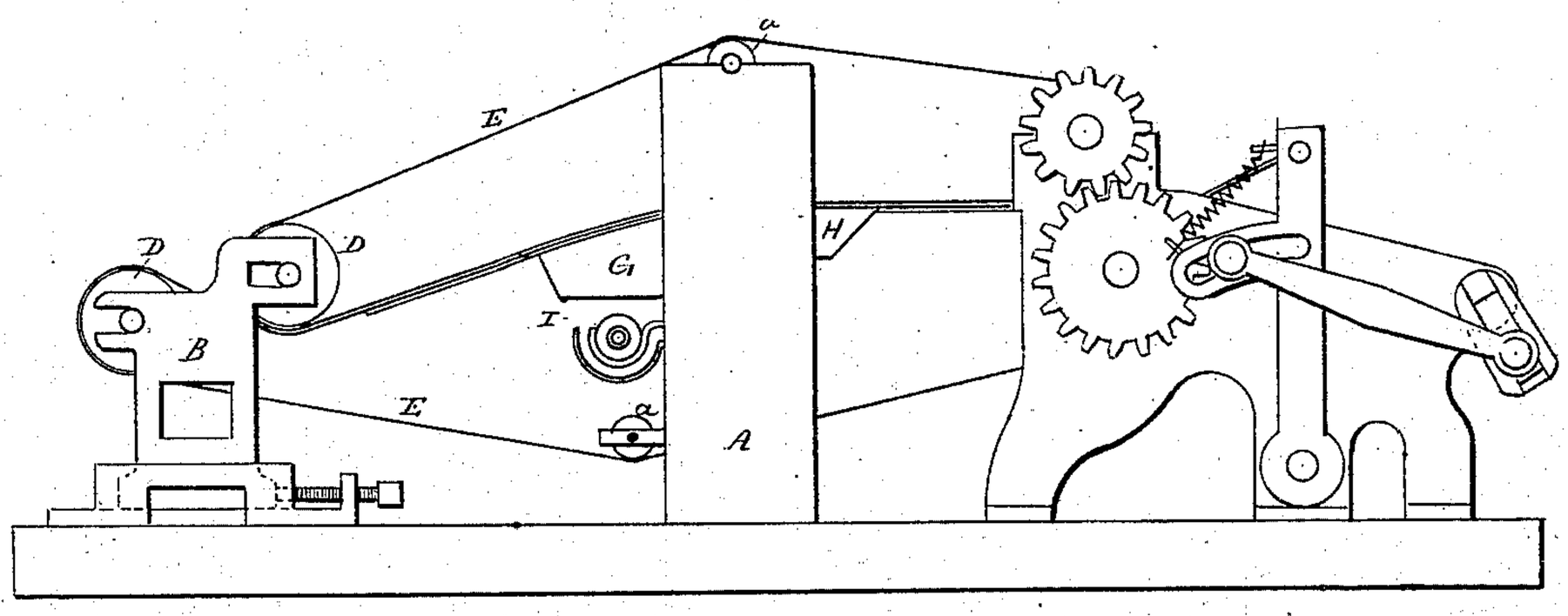


Fig. 2.

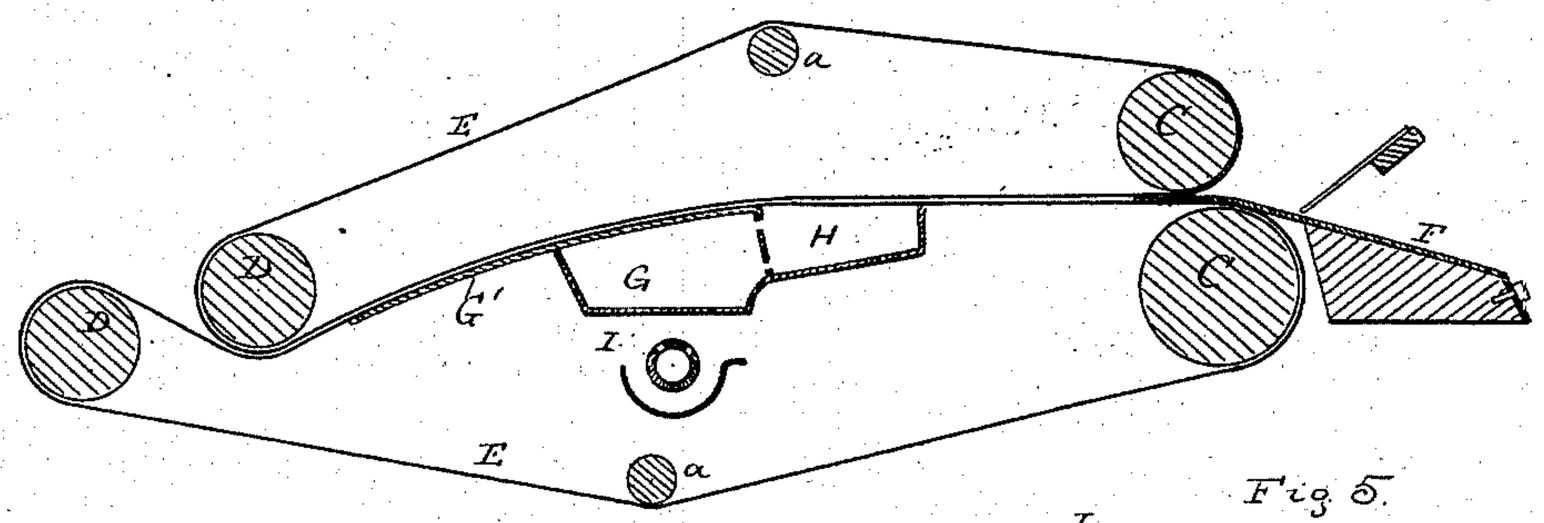


Fig. 5.

Fig. 3.

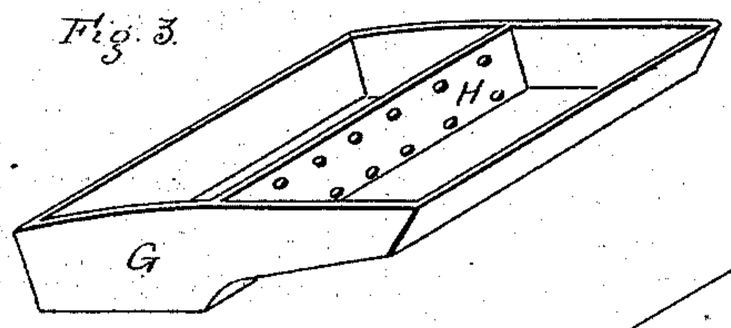
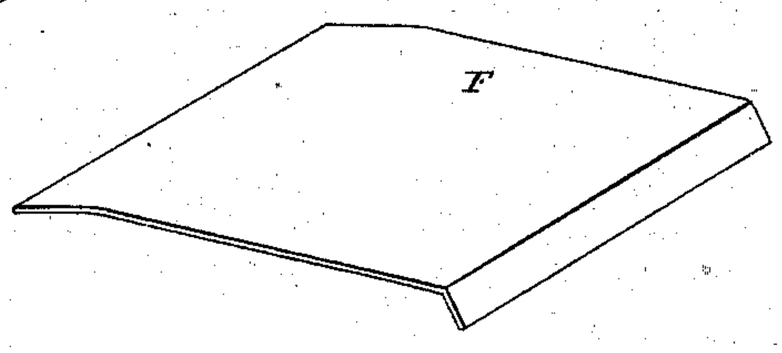


Fig. 4



Witnesses.
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Daniel S. Glenny Jr

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John B. Foley
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Atty

UNITED STATES PATENT OFFICE.

JOHN B. FOLEY, OF NEW HAVEN, CONNECTICUT.

PLAITING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 293,239, dated February 12, 1884.

Application filed July 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. FOLEY, a citizen of the United States of America, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Plaiting-Machines, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

Figure 1 is a side elevation, and Fig. 2 is a central and longitudinal section, of the machine. Fig. 3 is an enlarged view of the boiler and steamer. Fig. 4 is an enlarged view of the folding-plate, and Fig. 5 is a view of the perforated pipe from which the gas issues.

My invention relates to plaiting-machines; and my object is to provide more efficient means for drying or partially drying the steamed goods as they pass through the machine.

To this end the invention consists in arranging a heater between the rolls carrying the endless apron on which the goods are placed, and in making its top part in such form that the endless apron may slide over it, and the apron and the goods on it be heated, and the goods be dried or partially dried as they pass through the machine.

To enable others to avail themselves of my improvements on the expiration of the patent, I will give a detailed description of the same.

A is the frame of the machine, and the part B is made adjustable by the means shown, for the purpose of tightening the endless aprons. The front rolls, C, are geared together, and on the shaft passing through the lower roll a crank is fastened for turning the rolls, the crank not being shown. The endless aprons E pass around the rolls in the manner shown, and also over the small rolls *a*. The folding-plate F extends beyond its bearing into the machine, and between the endless aprons, and furnishes a yielding support for the goods between the plate and the upper apron. A reciprocating folder working back and forth on the folding-plate forms the folds, and the rolls and aprons have an intermittent motion and are at rest while the folds are made. As these are well-known parts in plaiting-machines, and as there is nothing new in them or in their operation, they need no further description.

The boiler G, as shown in Fig. 3, is without the top part, and is connected to the steamer H, and is the boiler or vessel in which the steam is generated by the gas-burner I, shown in Fig. 5, which is connected by a flexible pipe to a gas-pipe, which are not shown. It is arranged between the rolls over which the endless apron carrying the goods passes, and its top G′ is formed so that the apron slides over it and is heated. The top G′ prevents the steam from escaping directly from the boiler to the apron; also extends back of the boiler and forms a support for the apron. As shown, the heater and steamer are connected, and the steam passes from the boiler through the upper row of holes in the partitions between the boiler and heater, and any condensed steam flows back into the boiler through the lower row.

The steamer H is connected to the boiler, and the perforated side of the boiler forms one side of the steamer, which extends from the boiler toward the front of the machine and forms a vessel or chamber without a top. The endless apron running over it confines the steam within the chamber thus formed, or "steamer," as it is called.

Constructed and arranged as above described and as shown, the first effect of the boiler is to diffuse and equalize the dampness through the steamed goods, and to iron and dry or partially dry the goods in the machine, whereby better results are obtained.

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

In a plaiting-machine, the boiler G and steamer H, connected together, with communicating passages between them, arranged between the rolls over which the endless apron carrying the goods passes, the steam from the steamer coming into direct and immediate contact with the apron, and the boiler adapted to impart heat to and dry or partially dry the steamed goods as they pass through the machine.

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

JOHN B. FOLEY.

Witnesses:

GEORGE TERRY,

HIRAM A. GRAY.