B. B. BIGNALL.

FLUTING-IRON.

No. 189,546. Patented April 17, 1877.

FIG. 1.

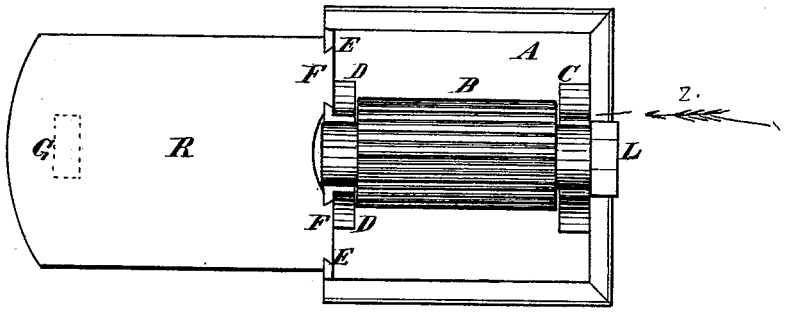


FIG. 2.

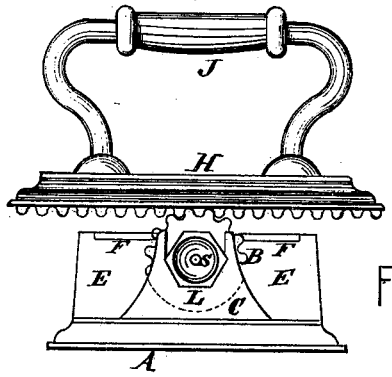
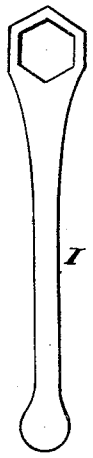


FIG. 3.



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UNITED STATES PATENT OFFICE.

BURNETT B. BIGNALL, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN FLUTING-IRONS.

Specification forming part of Letters Patent No. **189,546**, dated April 17, 1877; application filed June 13, 1876.

To all whom it may concern:

Be it known that I, BURNETT B. BIGNALL, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Fluting Irons and Tables, of which the following is a specification:

The nature of the present invention consists, first, in a corrugated hollow removable roller mounted in a suitable frame or stand, and provided with a removable handle, in combination with a straight fluting-iron to operate on the roller, which, when hot, crimps or flutes the article placed between the roller and the iron; second, in the combination, with the foregoing, a table or leaf, whereby the article being fluted is held in such position as not to be broken, as hereinafter fully described and shown.

In the drawings, Figure 1 is a plan or top view of my improvement in fluting-irons, with the flat fluter removed. Fig. 2 is an end elevation thereof, looking in the direction of dart Z, Fig. 1. Fig. 3 is a view of the handle for removing the roller.

A represents an iron stand of suitable size, to support the mechanism hereinafter named. At one end of this stand is a bearing, C, for one end of the roller B, and at the other end is a bearing, D, for the other end of the roller, said bearings being open at their upper ends for the convenience of removing the roller. This roller is provided with the usual flutes or corrugations on its periphery, corresponding in form to the flutes or corrugations on the face of the flat fluting-iron H, and it is hollow, that a hot iron, S, may be placed therein for heating the roller in the ordinary manner. The bearings D D are elongated at E E to support a table, R, Fig. 1, the opposite end of the table being supported by an ordinary leg, under dotted lines G. In this case the table is dovetailed into the enlarged parts E of the bearing D, as shown at F; but it may be cast solid to the bearing, if desired.

By means of this construction the cloth to be fluted cannot become entangled nor broken under or at the end of the roller, as would be the case if the bearings D were not elongated or brought flush with the table R.

Any suitable non-corrosive metal may be employed in the manufacture of the parts coming in contact with the cloth.

To move the roller B when hot, the handle I is to be placed on the end L, which in this case has six sides. When the roller is heated the stuff to be fluted is placed on it, and the straight iron H moved forward over it, so as to press the cloth down into the corrugations. The iron H may be heated instead of the roller, if desired.

It will be seen the cloth, as fast as fluted, is carried off the roller by the forward movement of the iron, which, having moved its length, is brought back and replaced on the roller.

I claim and desire to secure by Letters Patent—

1. The hollow roller B, stand A, and straight fluting-iron H, constructed and arranged to operate as described.

2. The combination of the roller B, stand A, provided with bearings D E, and table R, substantially as and for the purpose set forth.

BURNETT B. BIGNALL.

Witnesses:

O. H. ADIX,

G. L. CHAPIN.