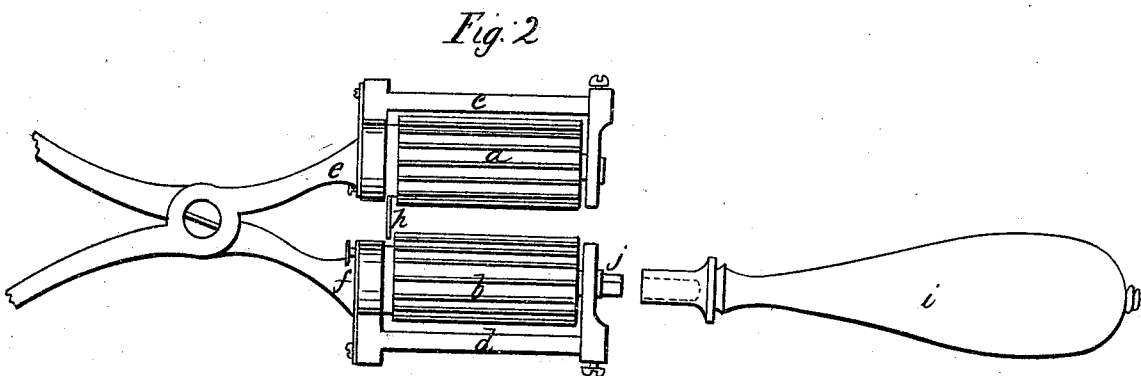
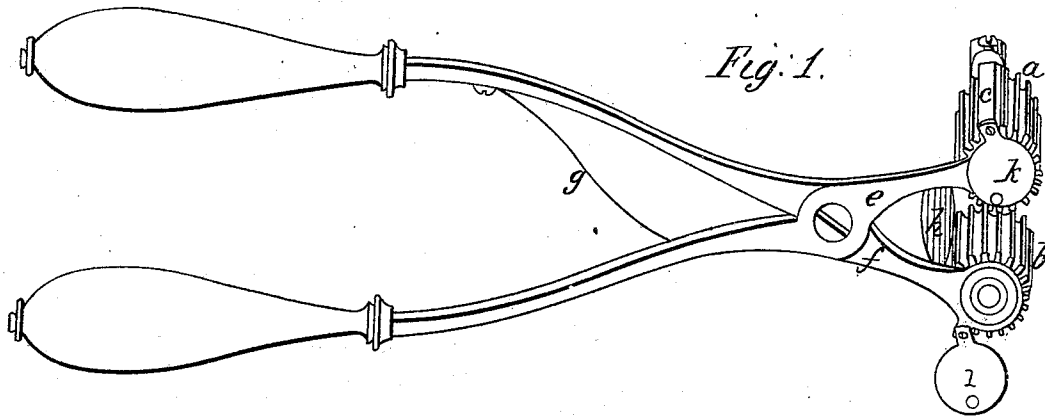


H. Sauerbier.

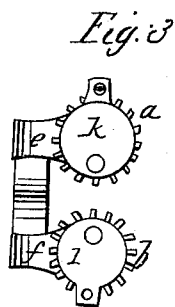
Fluting Mach.

Nº 109,456.

Patented Nov. 22, 1870.



Witnesses;
W. M. Gooding
Edward Colver



Inventor;
Henry Sauerbier

United States Patent Office.

HENRY SAUERBIER, OF NEWARK, NEW JERSEY.

Letters Patent No. 109,456, dated November 22, 1870.

IMPROVEMENT IN FLUTING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

I, HENRY SAUERBIER, of Newark, county of Essex and State of New Jersey, have made certain Improvements in Fluting-Instruments, of which the following is a specification.

The object of the invention is to adapt hollow fluting-rolls, with heaters in them, to conveniently crimp or frizzle the hair in the hands of a tonsor or of a barberess, as well as to elegantly crimp the laces, collars, and wristbands, or even frills, by the hands of a laundress.

I accomplish this by attaching to the frames that hold the rollers handles that are in a straight line with the flutes, a little off from one side of the frames, or placed at right angles, as the case may be; I join the handles near the end of the frame, in the usual way of joining tongs, and place between them a spring, in the ordinary manner of keeping the handles apart.

In the accompanying drawing—

Figure 1 is a pair of rollers, with handles attached at right angles to the rolls.

Figure 2, the rollers, with the handles of the rollers on a line with the rollers.

Figure 3, an end view of fig. 2.

The advantages of this construction are, the rollers

can be held in one hand while in use, and be operated with the other in places, positions, under circumstances, and on material, &c., to which the usual frames and stands forbid their application.

As when in use in the hands of a hair-dresser, the hair might get past the ends of the rollers and entangle in the frame or handle, I place on one handle the guard *h*, to prevent it.

The rolls can be operated either by a crank or by a straight handle, *i*, with a socket fitting the square *j* on the end of the roller *b*, as may be found most convenient by the operator.

What I claim and desire to secure is—

1. As a new article of manufacture, a fluting-machine, composed of the rolls *a* and *b*, supporting-frames *c* and *d*, and pivoted handles *e* and *f*, constructed, combined, and operated substantially as shown and described, and for the purpose specified.

2. In combination with the above, the guard *h*.

HENRY SAUERBIER.

Witnesses:

W. M. GOODING,
EDWARD COLLIER.