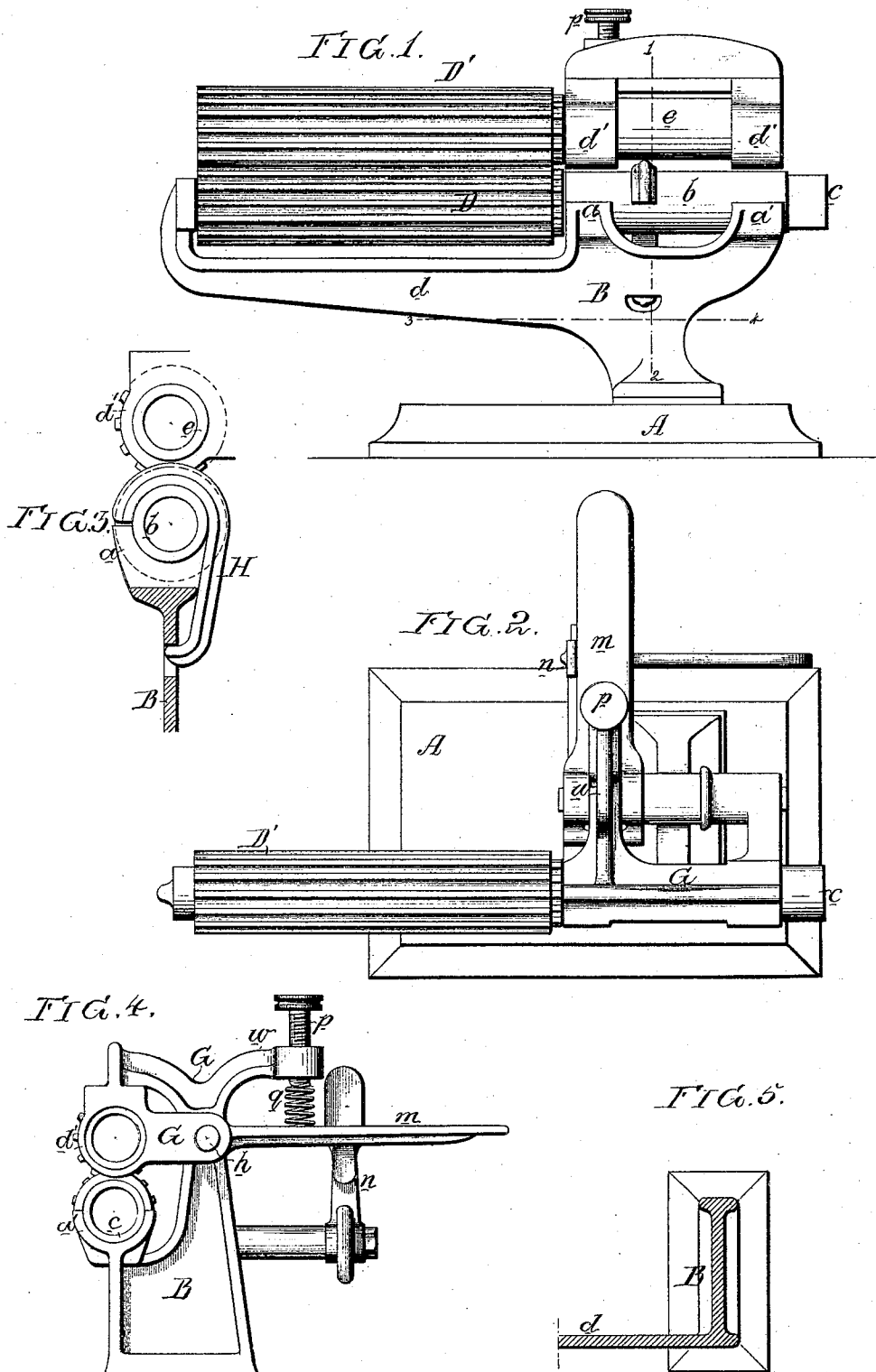


H. ALBRECHT. Fluting-Machine.

No. 168,954.

Patented Oct. 19, 1875.



Witnesses, *Harry Smith*
Hubert Howson

Hermann Albrecht
by his attorneys,
Howson and son

UNITED STATES PATENT OFFICE.

HERMANN ALBRECHT, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN FLUTING-MACHINES.

Specification forming part of Letters Patent No. **168,954**, dated October 19, 1875; application filed September 7, 1875.

To all whom it may concern:

Be it known that I, HERMANN ALBRECHT, of Philadelphia, Pennsylvania, have invented certain Improvements in Fluting-Machines, of which the following is a specification:

The main object of my invention is to construct a fluting-machine, the upper roller of which shall be exposed and unencumbered with obstructions tending to interfere with the free use of the machine; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a front view of my improved fluting-machine; Fig. 2, a plan view; Fig. 3, a vertical section on the line 1 2; Fig. 4, an end view, and Fig. 5 a sectional plan on the line 3 4.

A is the base of the machine, and to this base is secured the frame B, which has bearings *a a'* for the journal *b* of the lower fluting-roller D, the end *c* of the said journal being arranged for the reception of the usual handle.

An arm, *d*, projects from and forms a part of the frame or stand B, and the turned-up end of this arm has a projection adapted to the interior of the lower fluting-roller, and serving as the outer bearing for the same.

It may be here remarked that both bearings *a* and *a'* are not necessary, but it is essential to my invention that the lower fluting-roller should be supported at each end. This lower fluting-roller is combined with an upper roller having bearings at one end only, so that the latter roller may be exposed and unencumbered with an outer bearing, which tends to interfere with the convenient use of the machine, and so that the lower roller supported at each end may serve as a support for the upper overhanging roller.

The journal *e* of the upper roller has its bearings *d' d'* on a frame, G, which is pivoted to the frame or stand B, so that the upper roller can be readily elevated when the fabric to be fluted has to be introduced between the rollers. An arm, *m*, projects from the pivoted frame G, and this arm is, during the operation of the machine, held in place by a catch-lever, *n*. A screw, *p*, passes through a projection, *w*, of the pivoted frame, and between the end of this screw and the arm *m* intervenes a spiral spring, *q*.

As these devices for locking, releasing, and imparting pressure to the upper roller are described in a prior application for a patent filed by me on the 6th August, 1875, further description here will be unnecessary.

The half-bearings *a a'* of the journal *b* of the lower roller are more easily made than whole bearings, but require the use of a hook, H, connected to the frame, as shown in Fig. 3, so as to prevent the journal *b* from rising.

I claim as my invention—

1. The combination in a fluting-machine, of a lower fluting-roller, supported at both ends by bearings, with an upper fluting-roller, having bearings at one end only.

2. The combination of the upper fluting-roller D', with the pivoted frame G, and its two bearings, *d' d'*, adapted to the journal of the said roller, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERMANN ALBRECHT.

Witnesses:

HUBERT HOWSON,
HARRY SMITH.