

# UNITED STATES PATENT OFFICE.

JOHN NEILL, OF ST. JOSEPH, MISSOURI.

## IMPROVEMENT IN FLUTING-IRONS.

Specification forming part of Letters Patent No. 210,801, dated December 10, 1878; application filed September 14, 1878.

*To all whom it may concern:*

Be it known that I, JOHN NEILL, of St. Joseph, in the county of Buchanan and State of Missouri, have invented a new and valuable Improvement in Fluting-Irons; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal vertical section of my invention. Fig. 2 is a top view of the stand and fluting-roller; and Figs. 3 and 4 are detail views.

This invention has relation to improvements in fluting-irons.

The object of the invention is to devise a fluter upon which the goods being once laid need not be removed until the fluting is completed, and to improve such machines generally, so as to produce perfect work at a small expense of time and labor.

The nature of the invention consists in the construction and novel arrangement of a fluting-iron having a hollow corrugated roller, provided with a heating-billet, and a fluting-plate, corrugated on its under side and recessed upon its upper side, for the reception of a heating-plate, said fluting-plate being provided with a suitable handle, and adapted to be used in conjunction with the corrugated roller, as hereinafter specified.

In the annexed drawings, the letter A designates the base of my improved fluting-iron, composed of two side pieces or blocks, *a*, united by the cross-pieces *b*. B represents a longitudinally-corrugated roller, the rabbeted ends *i* of which have their bearings *c* in the side pieces *a*. This roller is prevented from endwise displacement when in use by the shoulders *d*, and, as shown in Fig. 2, is hollow. Inside of the roller is a metallic billet, C, that, being properly heated, communicates a fluting temperature to the roller, and when cooled may be drawn out, reheated, and replaced, the same being prevented from being pushed out of the roller by a stop, *d'*, at one end of the bore thereof. This roller may be of any desired size and length, according to the material to be fluted.

In practice, the cross-bars *b* will have a

spur or spurs projecting therefrom to support the fluting-iron when not in use. When not used in fluting the roller may be removed from the stand or base, and the latter utilized as a support for an ordinary sad-iron.

D indicates the upper fluting-plate, the same being of the general form of a rectangle, and of about a width, usually, equal to the length of the roller. The under side of this plate is transversely corrugated, and it meshes with the corrugations of the roller. It has at each end a raised lug, *e*, serving as points of attachment for the handle J, and upon its sides two or more raised ribs or lugs, *f*. Usually the plate D is cast complete, the ends of the said handle being set in the mold before running the metal into the same; but I may use any other method of attaching the handle that I may elect.

The inner faces of the side lugs *f* are at right angles to those of the end ones, a seat or receptacle being thus formed, in which is seated a heating-plate, L, of suitable dimensions, which being heated imparts its caloric to the fluting. For convenience of handling, this billet L has a raised central lug, *n*, or other equivalent device.

Sometimes one or more of the feet of the stand may be longer than the rest, in order that it may be the more conveniently attached to a table-edge by an ordinary clamp, and sometimes I may interpose a shield between the grasping portion of the handle and the upper heating-plate, L.

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

A fluting-iron consisting of a hollow corrugated roller, provided with a heating-billet, and a fluting-plate, corrugated on its under side and recessed upon its upper side, for the reception of a heating-plate, said fluting-plate being provided with a suitable handle, and adapted to be used in conjunction with the corrugated roller, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN NEILL.

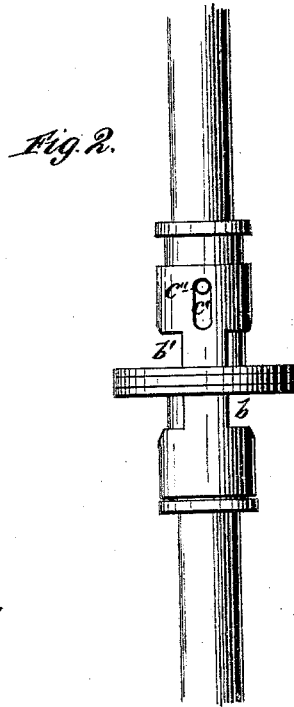
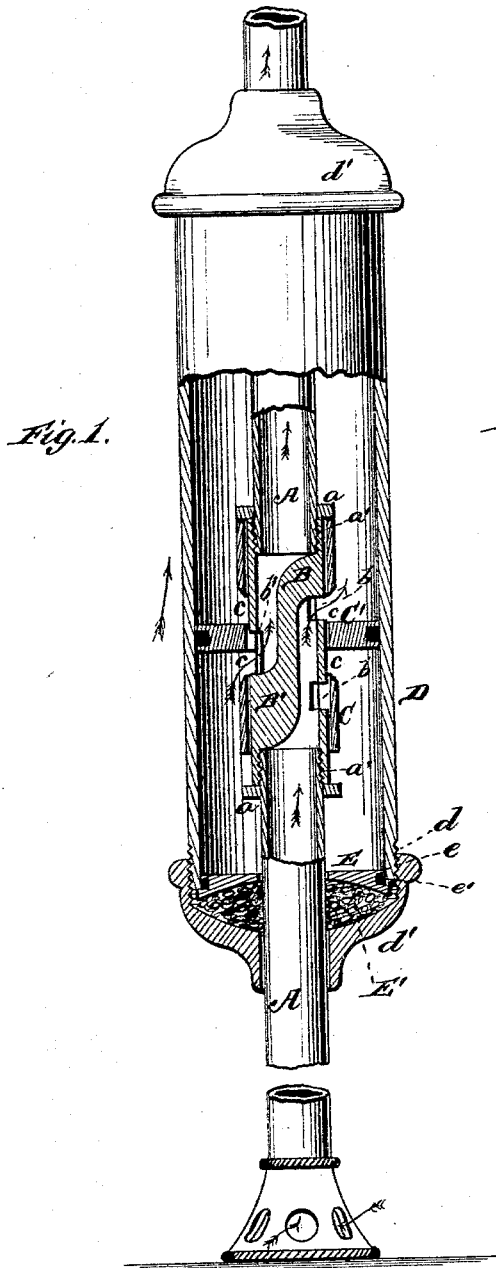
Witnesses:

LUKE H. MOSS,  
JNO. A. READ.

W. C. NELSON.  
Pump.

No. 210,802.

Patented Dec. 10, 1878.



WITNESSES  
*Robert Smith,*  
*H. Clay Smith*

By

INVENTOR.  
*William C. Nelson.*  
*J. M. Smith & Co.,*  
ATTORNEYS.