

(No Model.)

G. R. SCATES.

MACHINE FOR FORMING COFFEE POT SPOUTS AND THE LIKE,  
No. 279,602. Patented June 19, 1883.

Fig. 1.

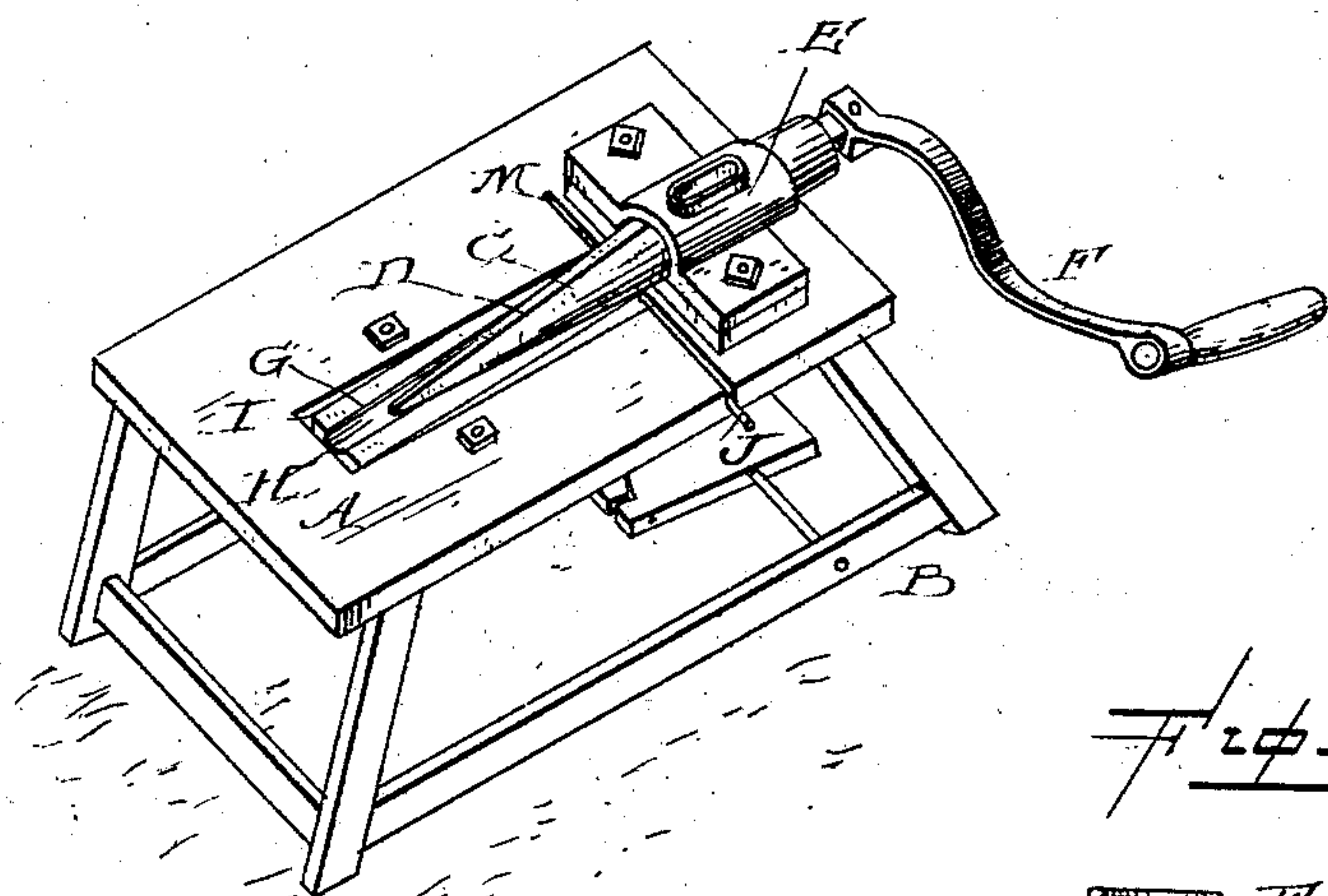


Fig. 2.

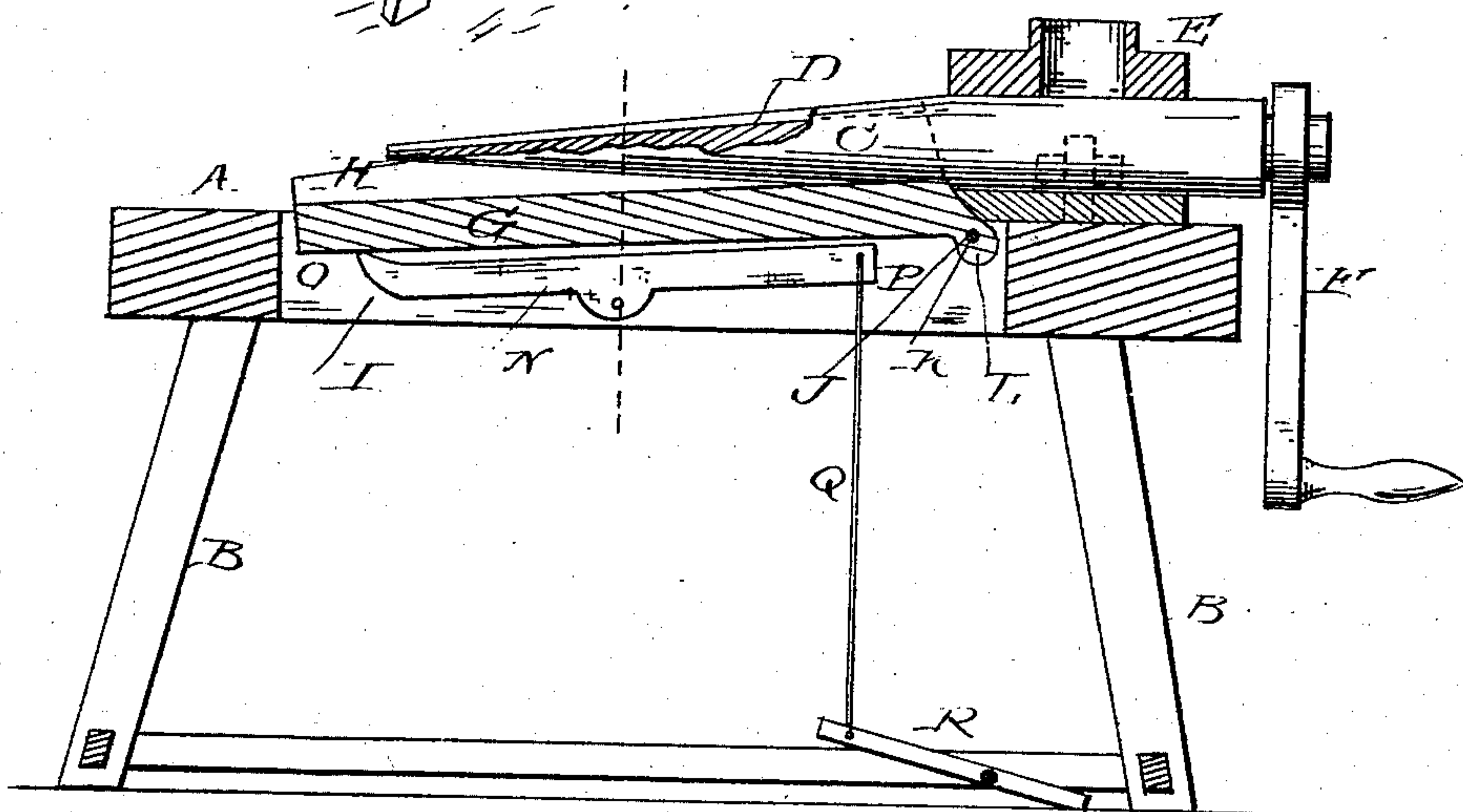
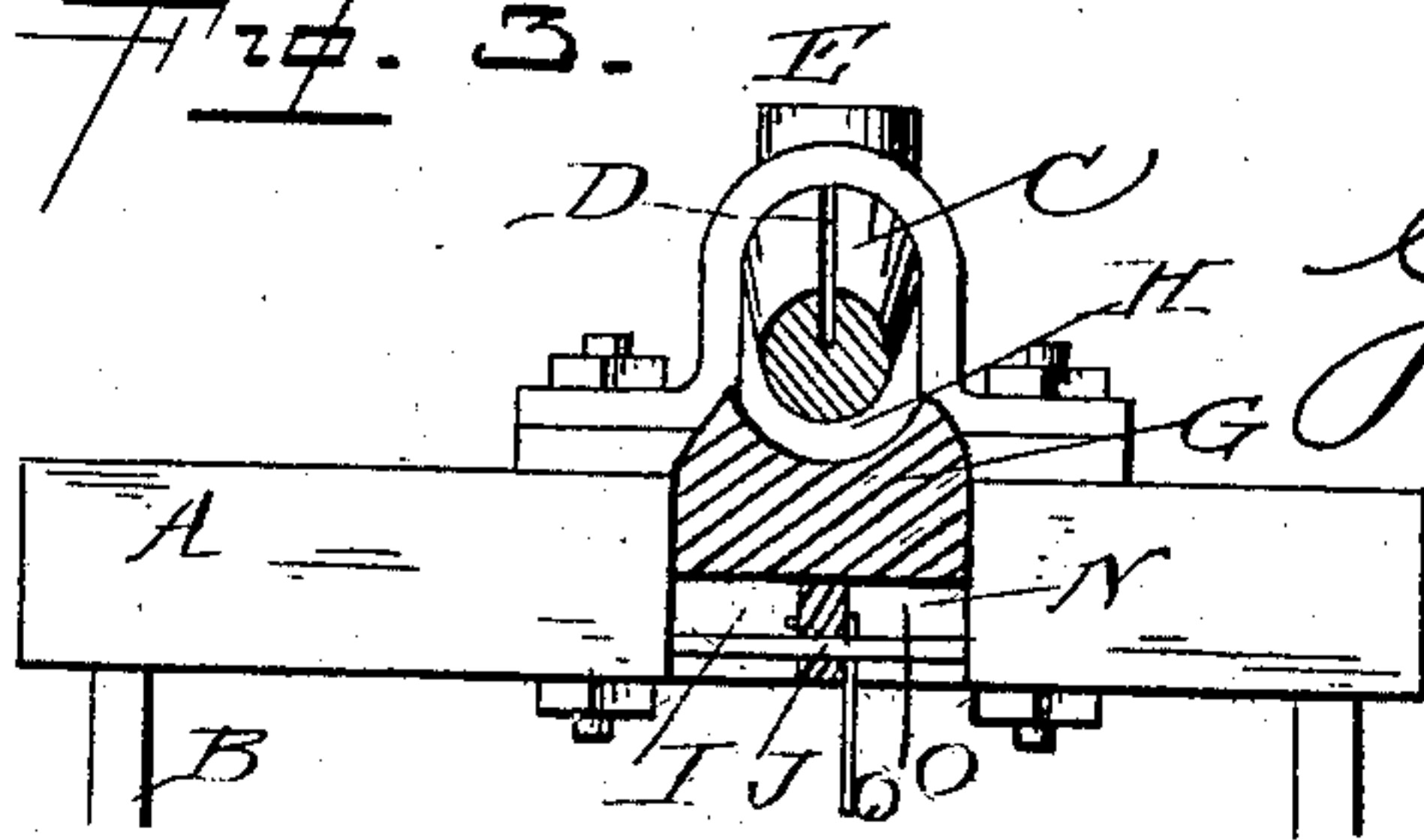


Fig. 3.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

GEORGE R. SCATES, OF KNOXVILLE, TENNESSEE.

## MACHINE FOR FORMING COFFEE-POT SPOUTS AND THE LIKE.

SPECIFICATION forming part of Letters Patent No. 279,602, dated June 19, 1883.

Application filed April 19, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE R. SCATES, a citizen of the United States, residing at Knoxville, in the county of Knox and State of Tennessee, have invented a new and useful Machine for Forming Coffee-Pot Spouts and the Like, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to machines for forming tubular articles from sheet metal, such as spouts for coffee and other culinary pots and articles; and its object is to provide a machine possessing superior advantages in point of  
15 simplicity, inexpensiveness, ease of operation, and general efficiency.

In the drawings, Figure 1 is a perspective view of a machine embodying my invention. Fig. 2 is a vertical longitudinal sectional view  
20 of the same. Fig. 3 is a vertical transverse sectional view taken through the fulcrum of the lever by which the base or die is operated.

Referring to the drawings, A designates the base-board of the machine, which is to be  
25 mounted upon or secured in a suitable frame, B.

C is the roll or mandrel, which is circular in cross-section, and is either straight or tapered, according to the shape of the tubular article it  
30 is desired to form. The roll C is provided with a longitudinal kerf or groove, D, and is journaled in a box, E, that is firmly bolted to the base A, the said roll being provided with, a crank or handle, F, by which it can be  
35 turned. This single roller works in a die or base-block, G, having a groove, H, in its top surface conforming to the shape of the roll. The base-die G works in a slot, I, in the bench A, and is hinged therein preferably, as herein  
40 shown, by having a cross-pin, J, passed through eyes K in lugs L, projecting from the end of the die G, the said rod J being seated in a groove, M, in the table or bench A, transversely to the slot I.

45 Under the base-die G is fulcrumed a lever, N, that bears on the free end O of the said die,

and has pivoted to its operating end P a connecting-rod, Q, that extends to a treadle, R, arranged at the bottom of the frame.

The base-die G normally hangs down on its  
50 hinges, as shown in Fig. 2 of the drawings, and when the edge of the sheet metal is placed in the groove D the said treadle R is depressed to cause the lever N to force the die G up against the roll and hold it there while the  
55 roll is turned to carry the sheet metal around between the die and the roll to form the tubular spout or other article. As soon as the pressure on the treadle is removed the die G will at once drop down to its normal position,  
60 so that the spout or tube can be easily slipped off the roll.

It is obvious that numerous modifications can be made in the construction and arrangement of parts of this machine without depart-  
65 ing from the spirit of my invention.

I claim as my invention—

1. The combination of the base-die having its upper face corresponding to the shape of the roll or former, and hinged at its rear end,  
70 so that its front end will normally hang downward under the roll, the roll or former arranged in fixed horizontal position above the base-die, and mechanism bearing on the free end of the base-die to force it up against the  
75 under side of the roll, as and for the purpose set forth.

2. The combination of the base-board, the roll journaled in bearings arranged thereon, and having the longitudinal groove or kerf,  
80 the base-die corresponding to the roll, and hinged in a slot in the base-board, the operating-lever fulcrumed under the free end of the base-die, the actuating-treadle, and the connecting-rod, as set forth.  
85

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

GEORGE RANDOLPH SCATES.

Witnesses:

JOS. K. MITCHELL,

R. J. STEPHENSON.