

O. C. DEWEY.

Devices for Handling Metal at the Rolls.

No. 153,671.

Patented Aug. 4, 1874.

Fig. 1.

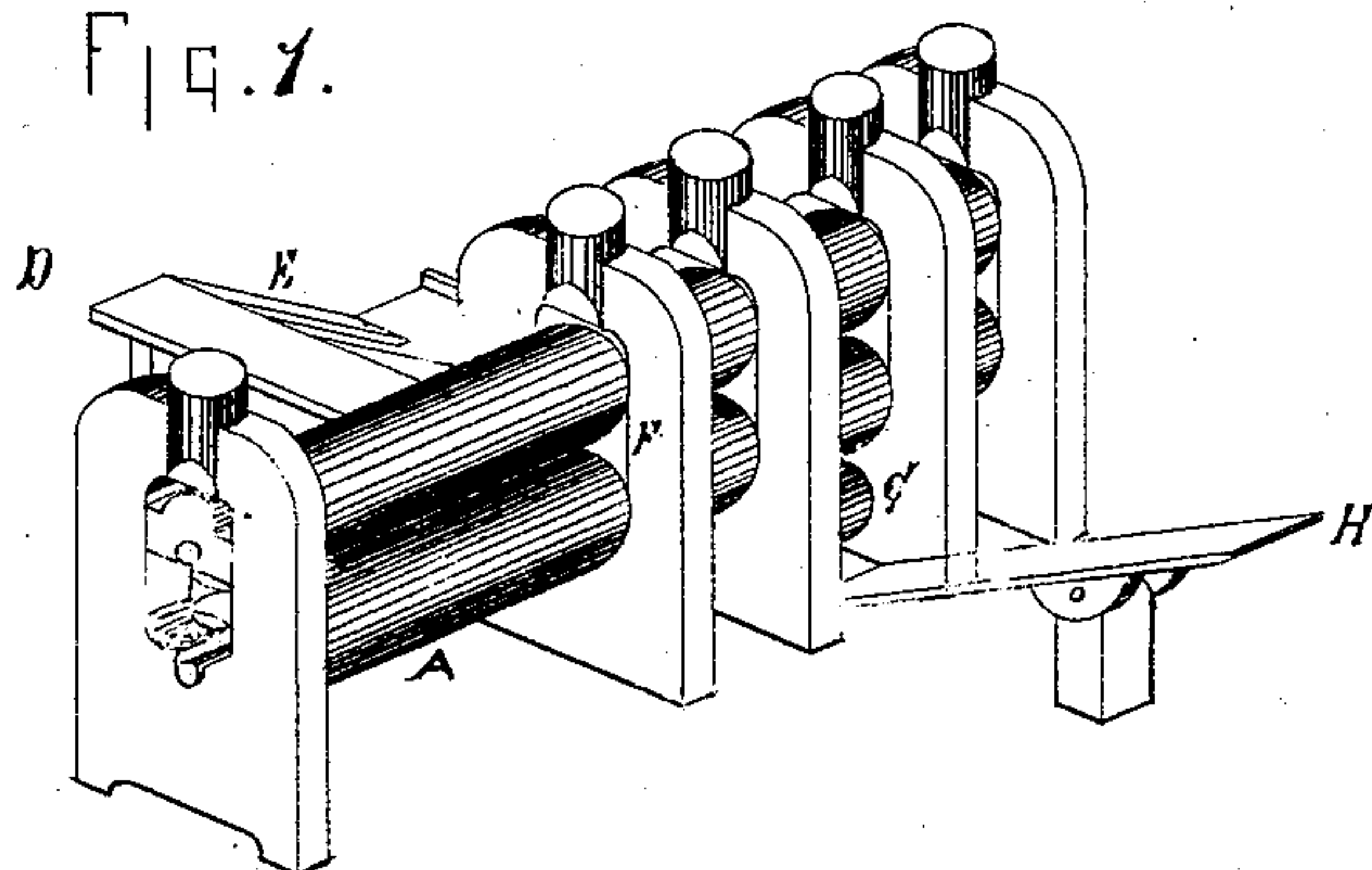


Fig. 2.

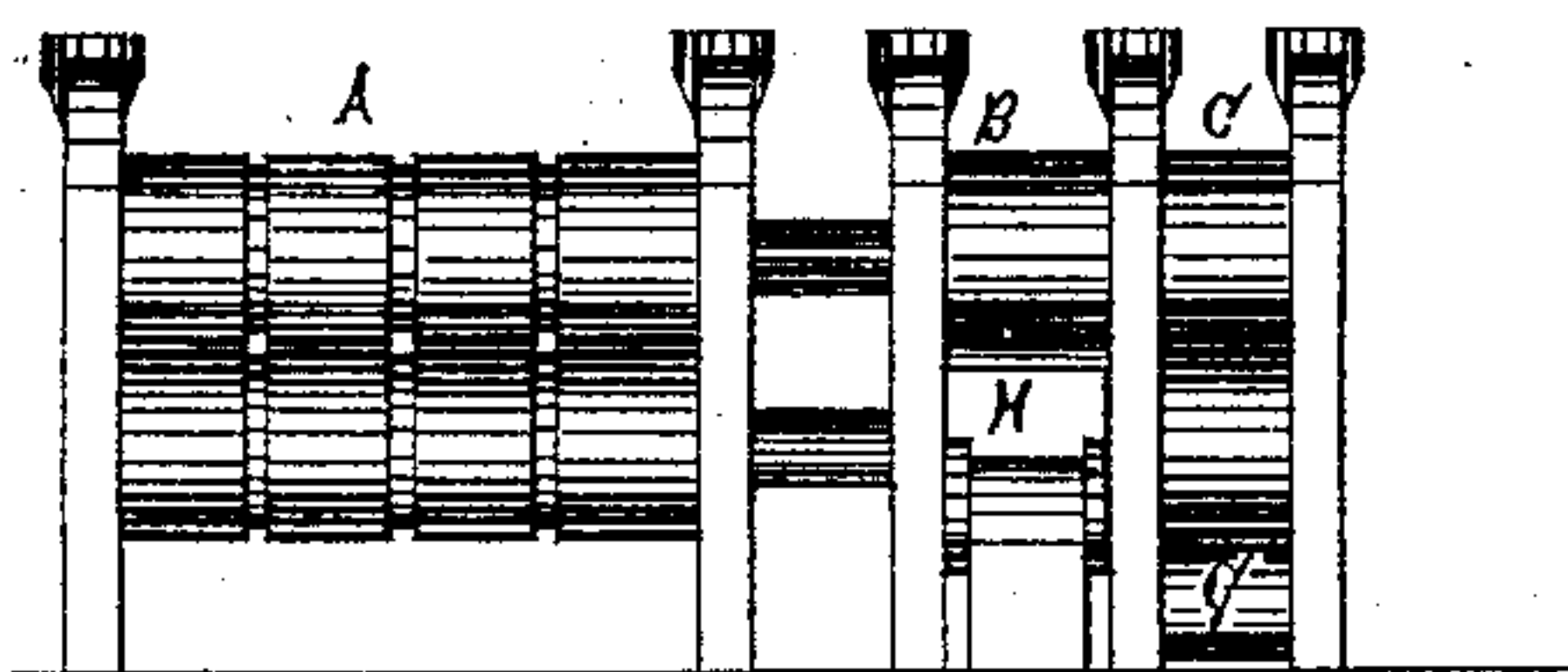


Fig. 3.

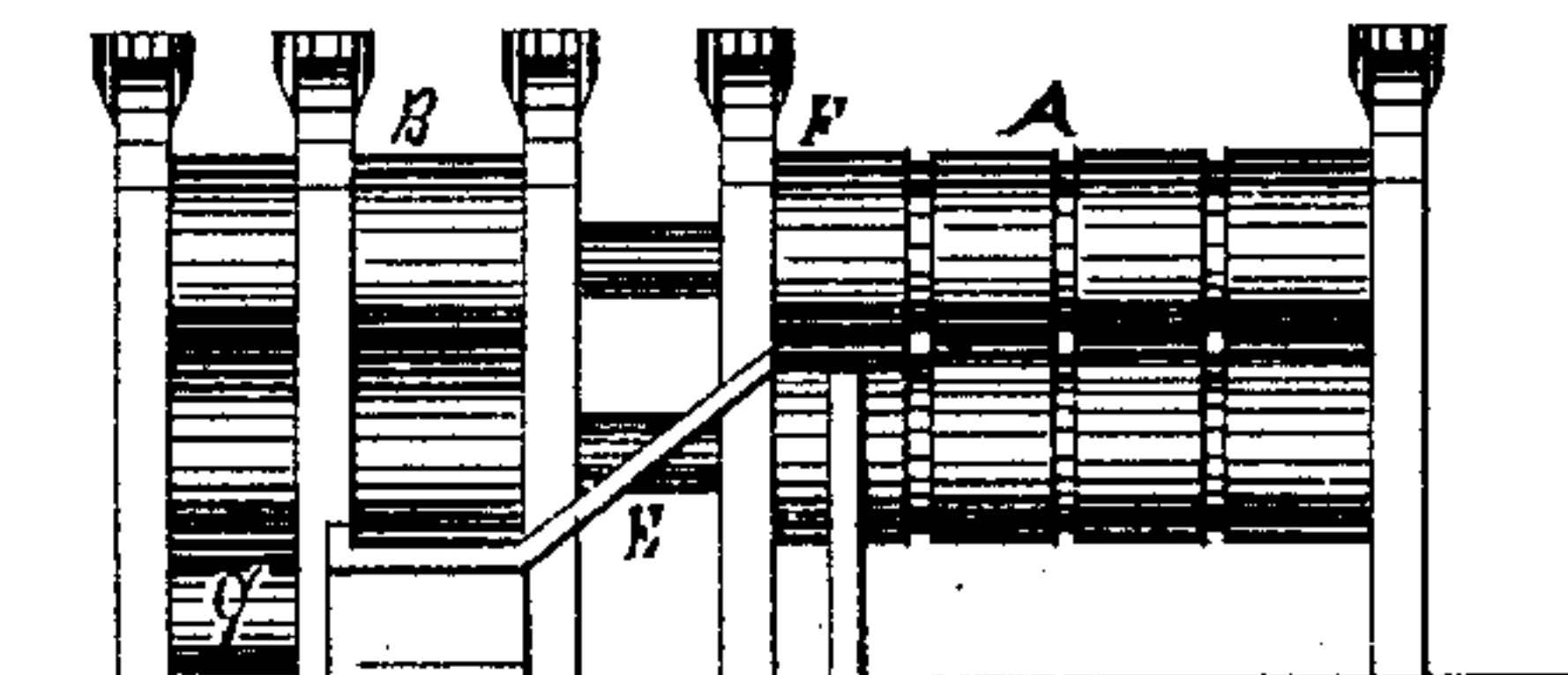
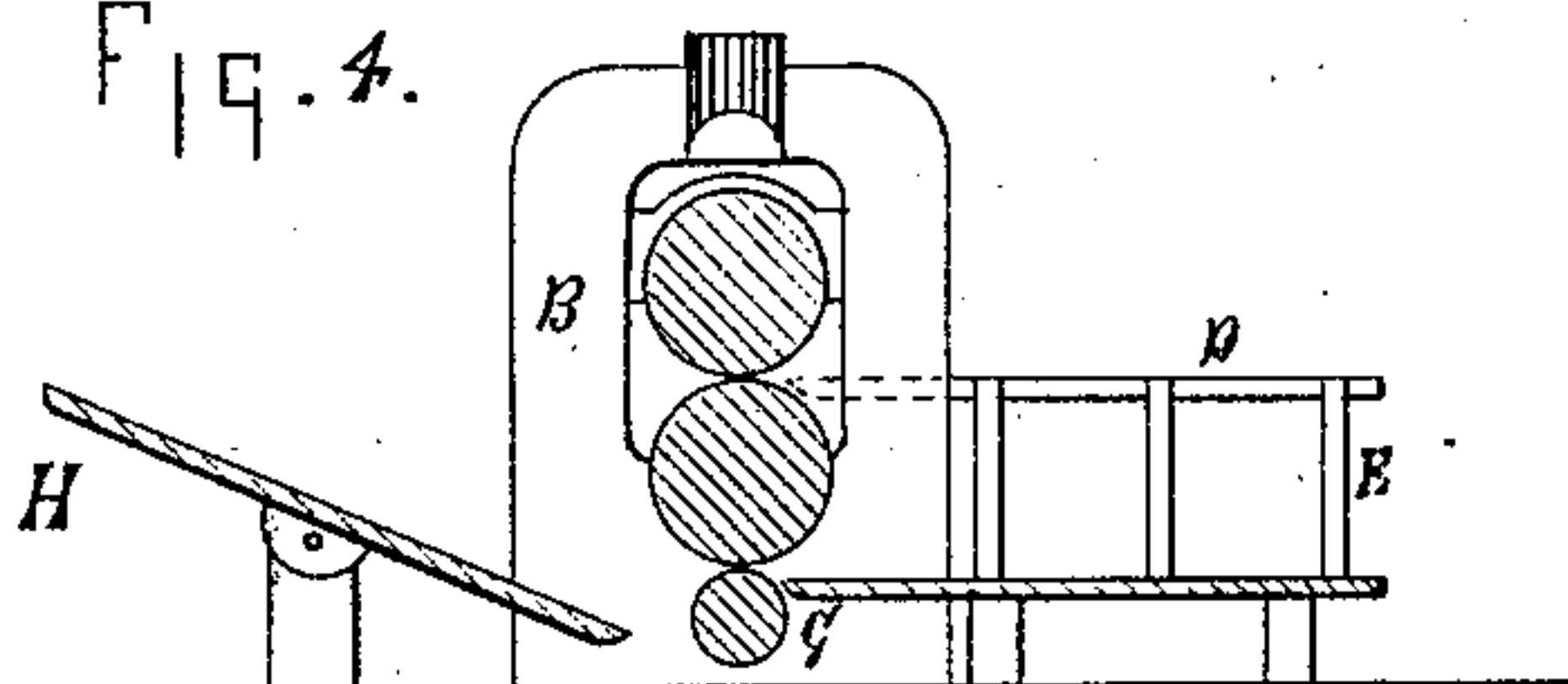


Fig. 4.



WITNESSES.

Jno. B. McLeure.
S. M. Howard.

INVENTOR.

Orville C. Dewey

UNITED STATES PATENT OFFICE.

ORVILLE C. DEWEY, OF WHEELING, WEST VIRGINIA.

IMPROVEMENT IN DEVICES FOR HANDLING METAL AT THE ROLLS.

Specification forming part of Letters Patent No. **153,671**, dated August 4, 1874; application filed March 11, 1874.

To all whom it may concern:

Be it known that I, ORVILLE C. DEWEY, of the city of Wheeling and State of West Virginia, have invented an Improvement in Reducing-Rolls, of which the following is a specification:

This invention relates more particularly to that class of rolls used for reducing iron into nail or other plate, and which ordinarily include what are called "roughing-rolls," "first pair of bull-head rolls," and "second pair of bull-head or finishing rolls," set up and arranged side by side in the above order, and called a "train of rolls;" and consists, first, of the roughing-rolls adjacent to the first pair of bull-head rolls in such train, provided and combined with a table or platform with an inclined guide, hereinafter described, to receive the iron being rolled, and to assist in transferring it to the adjacent bull-head rolls; and second, of the first pair of bull-head rolls provided and combined with a pivotal table or platform, hereinafter described, to receive the plate being rolled as it is transferred under said rolls from the rear to the front, and to assist in passing it into said bull-head rolls; and third, of said first pair of bull-head rolls provided and combined with a transfer-roll beneath them, hereinafter described, and said pivotal table or platform.

In the drawings, Figure 1 is a perspective of a train of rolls provided with my improvements. Fig. 2 is a front elevation of the same. Fig. 3 is a rear elevation, and Fig. 4 is a transverse section taken through the first pair of bull-head rolls, in which—

A, B, and C mark, respectively, the roughing-rolls, bull-head rolls, and finishing-rolls. D is a table or platform, with an inclined guide or guides, E, arranged in relation with

the roughing-rolls A adjacent to the bull-head rolls B. The table is to receive the iron as it comes from the rolls, and the guide or guides are to assist in its transfer to the rolls B. H is a pivotal table or platform, with the end next to the rolls the heaviest, (so as to keep it down when receiving the plate,) arranged in relation with rolls B to receive the plate as it is transferred under rolls B from the rear to the front, and to assist in passing it into the rolls B. The plate, as it is shoved under rolls B, strikes this table and runs up it, when the attendant presses upon the end of the plate and turns the table upon its pivot, so as to bring the plate into position to be passed into the rolls. G is a transfer-roll, arranged in the usual manner under the lower roll of rolls B, the object of which is, in connection with the lower roll, to slightly engage the plate and transfer it from the rear of rolls B to their front. It is by the action of these rollers that the plate is put upon the pivotal table H.

By the use of these improvements a less number of laborers are required in the manufacture of nail or other plate, and the labor is made easier.

It is evident that a table with guides can be arranged with rolls B to aid in the transfer of the plate to the finishing-rolls, and also the pivotal table or platform with rolls C.

What I claim as my invention is—

1. Roughing-rolls A and table or platform D, with guide or guides E, in combination.
2. Bull-head rolls B and pivotal table or platform H, in combination.
3. Bull-head rolls B, transfer-roll G, and pivotal table or platform H, in combination.

Witnesses: ORVILLE C. DEWEY.

JNO. B. WCLURE,
JAMES P. ROGERS.