

(No Model.)

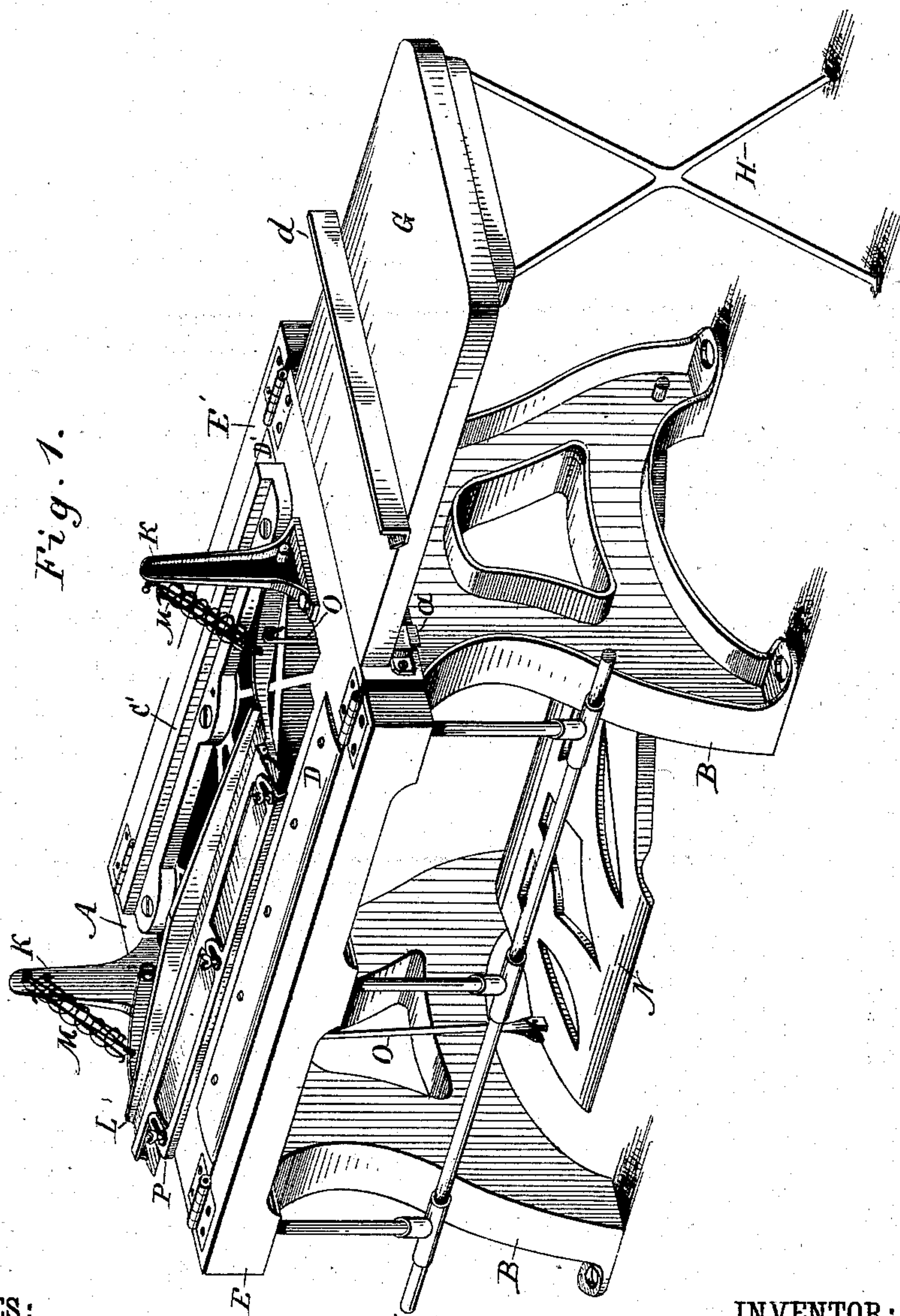
2 Sheets—Sheet 1.

R. C. SNOWDEN.

ROOFING MACHINE.

No. 283,291.

Patented Aug. 14, 1883.



WITNESSES:

Thos. Houghton.

W. X. Stevens

INVENTOR:

R. C. Snowden

BY

Munn & Co

ATTORNEYS.

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Fig. 3.

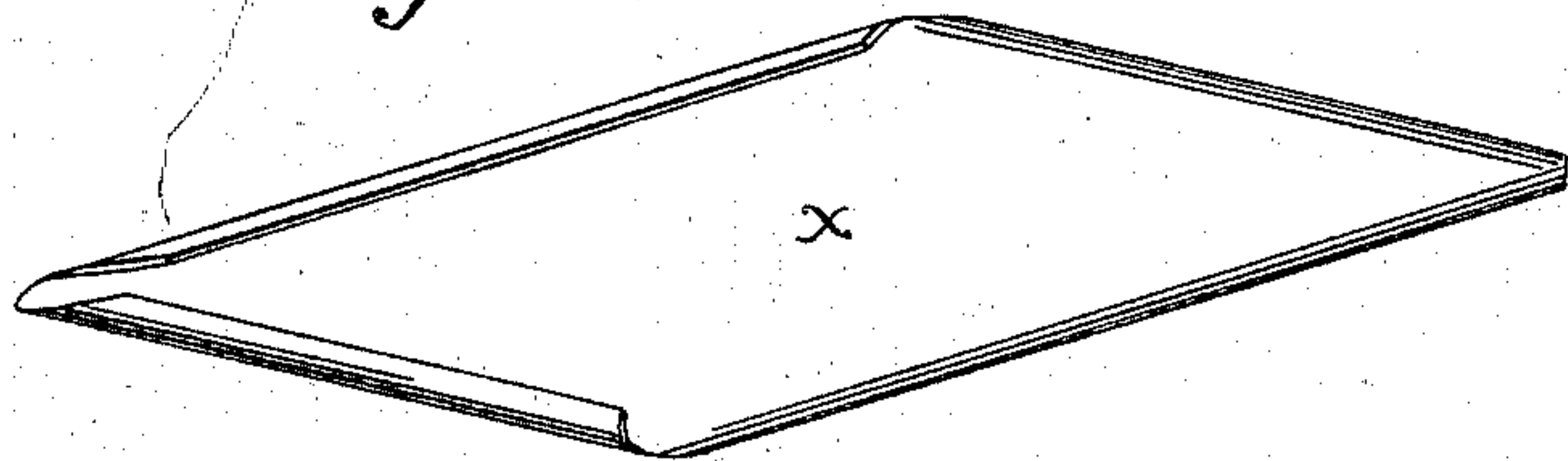


Fig. 4.

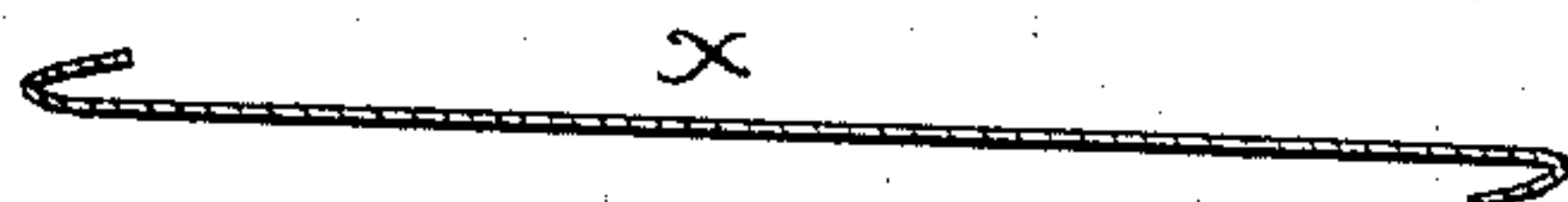
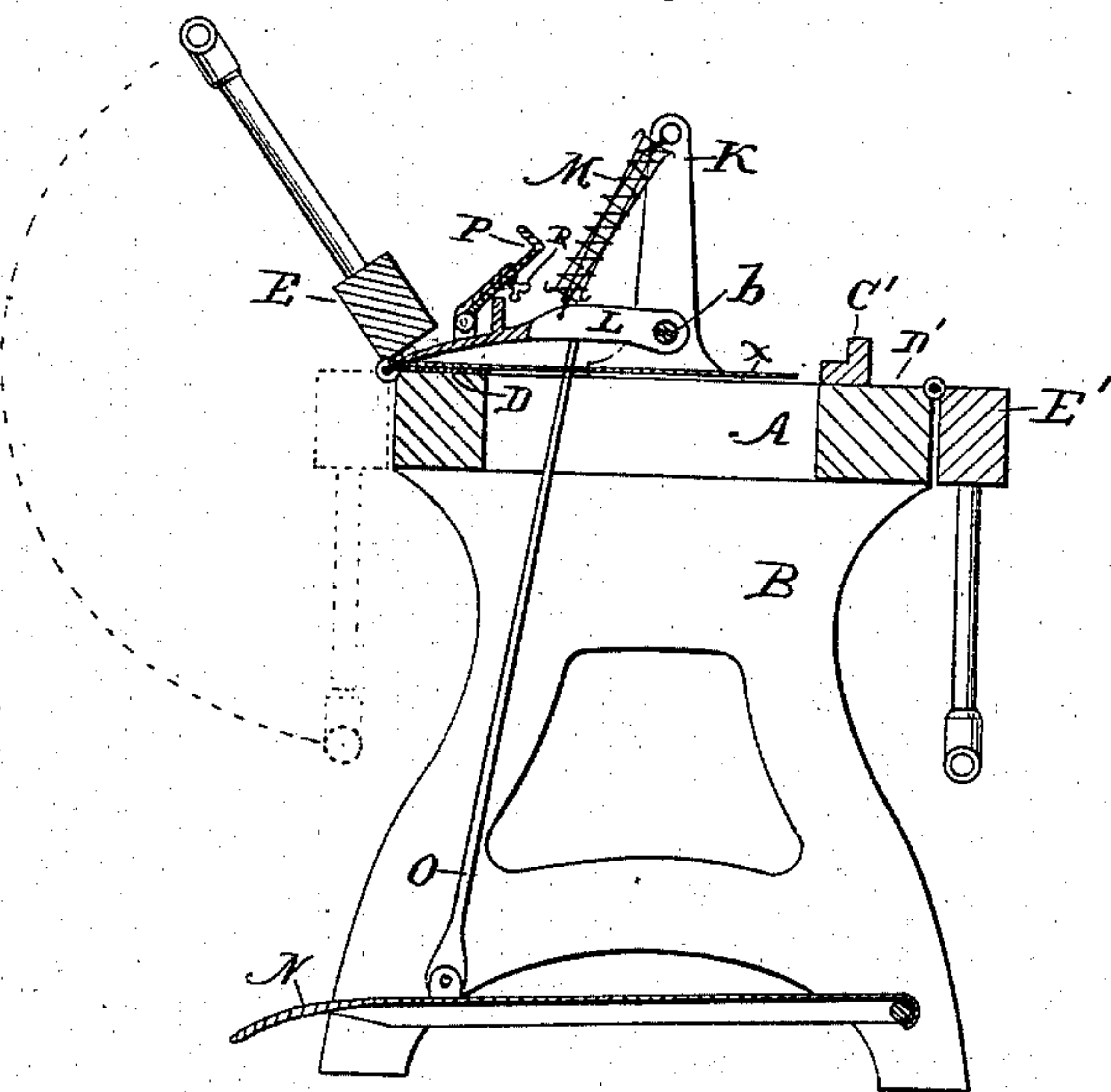


Fig. 2.



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UNITED STATES PATENT OFFICE.

ROBERT C. SNOWDEN, OF ELIZABETH, PENNSYLVANIA, ASSIGNOR TO MELISSA BELL SNOWDEN, OF SAME PLACE.

ROOFING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 283,291, dated August 14, 1883.

Application filed June 14, 1883. (No model.)

To all whom it may concern:

Be it known that I, ROBERT C. SNOWDEN, a citizen of the United States, residing at Elizabeth, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Tin-Roofing Machine, of which the following is a specification.

My invention relates to machines to be used in the shop to prepare tin roofing by bending the edges of the sheets of tin into form to be readily applied and joined upon the roof; and it has for its object certain improvements in a machine patented to me March 20, 1883, No. 274,398, which improvements are hereinafter fully described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my entire machine. Fig. 2 is a transverse vertical section of the same, showing its operation. Fig. 3 is a perspective view of a sheet of tin bent into form to be applied to a roof as "flat-seam roofing," and Fig. 4 is a vertical section of the same.

A represents the table mounted on legs B. C' is a gage-bar, whose office is described in my former patent.

D and D' are two plates of iron secured to the table along its two edges. The edges of the table are cut away to form recesses, into which the edges of plates to be bent are inserted beneath plates D D'.

E E' are brakes or folding bars hinged to the two edges of the table, and provided with handles F F'.

G is a supplemental table attached at one end to the main table by tongues *a*, and supported at its other end by folding legs H.

Thus far I have described the old machine only; but the old machine has two gage-bars like C', the one to be used on the edge of the table over plate D being now removed to allow my new device to be used.

K represents two posts secured upon the main table, and provided with bearings near their lower ends to receive trunnions *b* of the plate L, which is adapted to swing vertically therein.

M represents springs connecting the arms of plate L with the tops of posts K, to lift the plate, when not in use, to the position shown in Fig. 1.

N is a treadle connected by rods O with the arms of plate L to draw the plate down by the operator's foot.

P is a gage hinged to plate L to swing down in front of the edge of the plate. This gage is provided with sliding bar and set-screws R, by means of which it may be set for wide or narrow seams.

The operation is as follows: The sheet of tin *x* is fed into the machine from the rear, beneath the plate L, against the gage P. The gage is then raised out of the way. The plate L is firmly pressed down, holding the sheet of tin upon plate D, and the brake E is raised, as shown, folding the edge of the tin over the edge of plate L and giving it the desired form. Two adjacent edges of the sheet of tin will first be folded, then the sheet will be inverted and the opposite two edges turned, in order that two edges may be turned upward and two edges turned downward, to adapt the edges of two sheets to fold together when on the roof. This style is called "flat-seam roofing." The first fold of raised-seam roofing may be quickly made on this new folder, and the risers then be bent over the edge of plate D or D', as it was formerly done. I provide an angular strip, *d*, elevated on the supplementary table, to assist in holding the sheets after the raised folds are formed in the subsequent operations performed thereon. Every step of preparation which may be done to roofing in the shop is a great saving over doing it on the roof, because the shop is the safer and easier place to work, and by the use of my improved machine in the shop I can prepare tin more rapidly, better, and at less cost than it has formerly been done, so that tin may be furnished ready folded to the roofer at a less cost than he could formerly buy the tin and prepare it himself, and at the same time it will be better and more uniformly folded.

What I claim as my invention, and wish to secure by Letters Patent, is—

1. The combination, with a sheet-metal-bending machine having a table provided with a brake or folding bar hinged to its edge, as described, of a bending-plate hinged to swing down upon the edge of the table, a treadle, and rods for depressing said plate, and springs for raising the same, whereby a plate of tin

may be held and the edge thereof be bent over the edge of said bending-plate, the plate to be bent being fed from the rear of the table into the position described.

- 5 2. The combination, with a sheet-metal-bending machine having a table provided with a brake or folding bar hinged to its edge, and a bending-plate hinged to its top, as described, of the adjustable gage described, hinged to the
10 bending-plate, whereby a sheet-metal plate fed to the machine beneath the folding-plate from

the rear will be stopped with its edge projecting the desired distance in front of the edge of the bending-plate, the gage may be then raised out of the way, and the edge of sheet-metal 15 plate be folded by the brake-bar, as shown and described.

ROBT. C. SNOWDEN.

Witnesses:

W. P. WESTBERRY,
H. H. MCCLURE.