

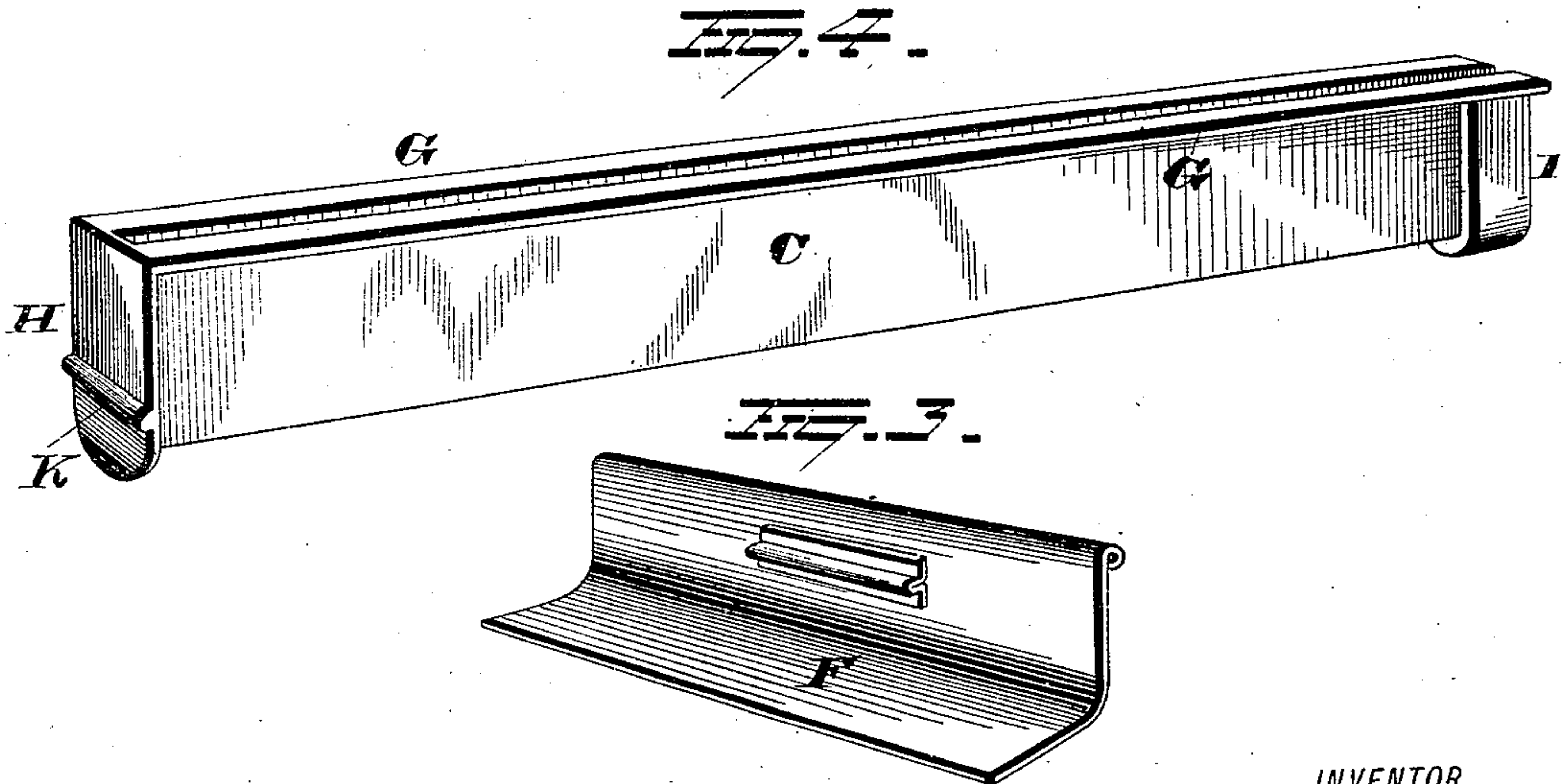
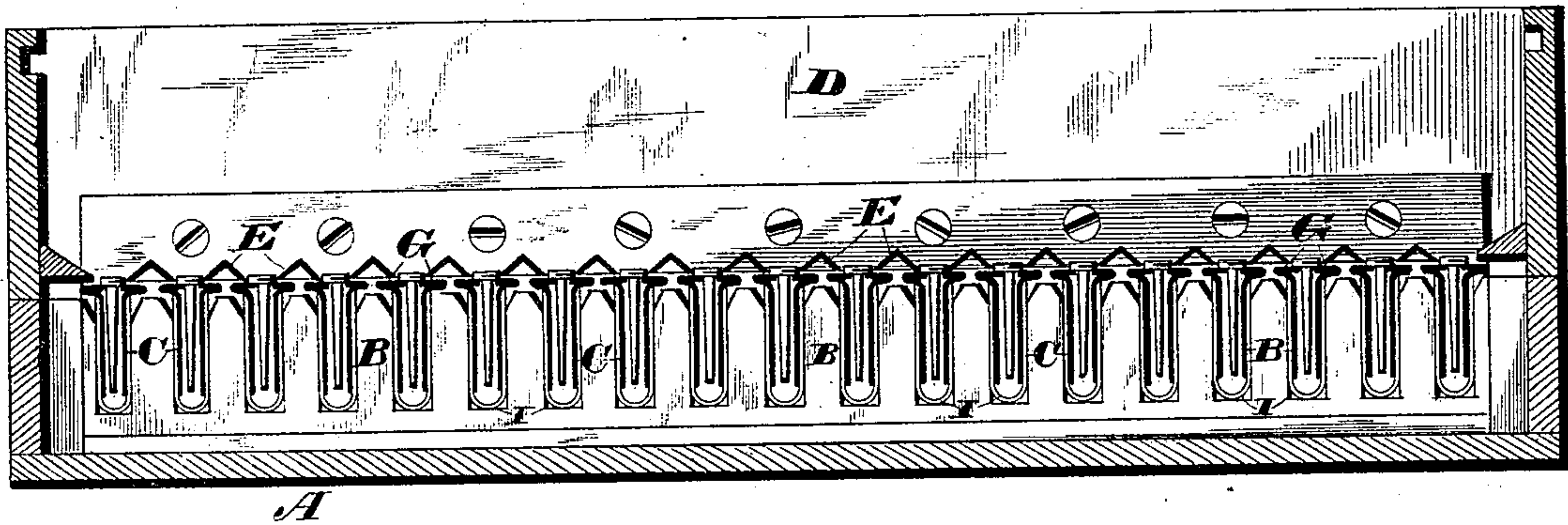
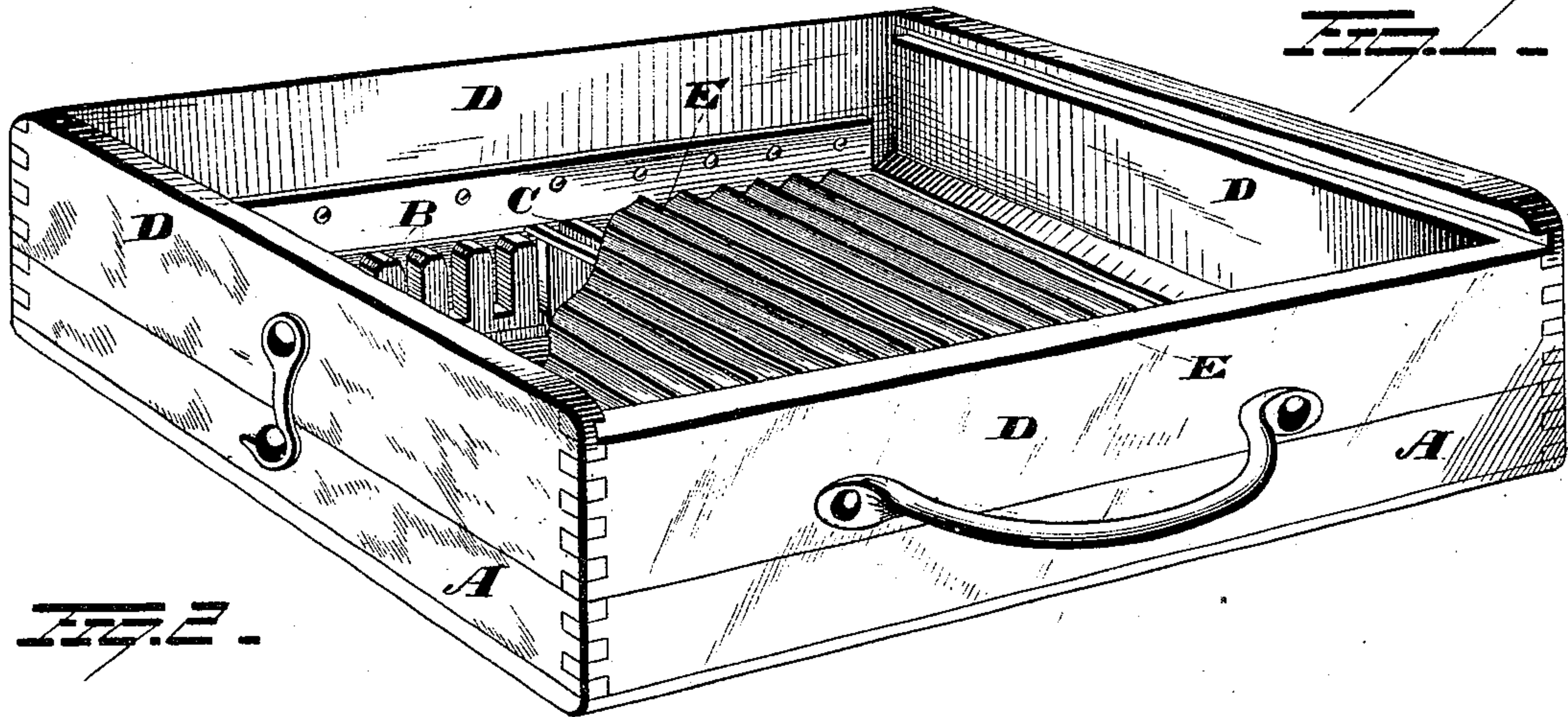
(No Model.)

S. PERRY.

DEVICE FOR ARRANGING NAILS IN SERIAL ORDER.

No. 282,666.

Patented Aug. 7, 1883.



WITNESSES

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# UNITED STATES PATENT OFFICE.

STUART PERRY, OF NEWPORT, NEW YORK.

## DEVICE FOR ARRANGING NAILS IN SERIAL ORDER.

SPECIFICATION forming part of Letters Patent No. 282,666, dated August 7, 1883.

Application filed June 3, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, STUART PERRY, of Newport, in the county of Herkimer and State of New York, have invented certain new and useful Improvements in Devices for Arranging Nails in Serial Order; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to an improvement in devices for arranging nails in serial order, the object being to provide means for charging magazines adapted to be discharged by automatic nail-driving devices.

With this end in view, my invention consists in certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in perspective of devices embodying my improvement, a portion of the deflector being broken away to show the manner in which the magazines are grouped and supported while being charged. Fig. 2 is a view in vertical longitudinal section of the device shown in Fig. 1. Fig. 3 is a view in perspective of a nail-scoop employed in connection with the devices shown in Figs. 1 and 2, and Fig. 4 is a view in perspective of a portable nail-magazine.

A represents a case or tray, provided with fingers B, between which the opposite ends of the magazine C are received. A similar case or deflector, D, adapted to be secured to the case A, is provided with a series of cross-bars, E, the upper faces of which are provided with two bevels inclining in opposite directions, the said cross-bars being appropriately arranged, so that when the case D is mounted upon the case A, as aforesaid, the beveled bars will deflect the nails, which are thrown in a mass into the case D, into the open tops of the magazines; and inasmuch as the tops thereof are broad enough only to receive the points and shanks of the nails, they will be suspended in serial order in the said magazines by their heads, as shown in Fig. 2 of the drawings.

The scoop F is designed to be used in removing the nails remaining in the deflector D after the magazines are charged, and also to be employed in moving the nails from place to

place in the said case D, to facilitate their distribution into the magazines.

In operating the devices above described to charge the magazines, the nails are thrown into the case or deflector D, previously secured to the top of the case A by any suitable devices. The cases are now shaken to distribute the nails throughout the magazines; or the nails may be moved over the bars E by a brush. In order to get the greatest possible number of nails into each magazine, after they are partially charged the cases are inclined, which will cause the nails in the magazines to slide by their own gravity into the depressed ends thereof. After the cases have been inclined with the results above stated, they are again inclined in a plane at right angles to the plane of the first inclination. This will cause the loose nails to flow to the depressed end of the case D, where they will be collected in the scoop F, previously placed in position. The scoop is now employed to distribute the nails over those portions of the magazines which are yet unfilled. In this manner, by inclining the cases from side to side and by using the scoop as described, the magazines will be charged to their greatest capacity in a few moments. After charging the magazines the case D is removed to permit them to be withdrawn from the case in which they are supported. If desired, however, the cases A and D may be permanently secured together. If this construction is adopted, one side of the case D should be provided with an opening for the introduction and withdrawal of the magazines; but, irrespective of the particular construction of the cases, it is designed that they shall be of compact and portable form. After the magazines are charged with nails arranged in serial order, as hereinabove described, it is designed to remove them from the charging-case and introduce them separately into nail-driving devices, in which they are automatically discharged. If desired, however, the magazines may be permanently secured in the charging-case, and when charged the nails in them may be deflected in serial order into suitably-arranged driving devices. I would therefore have it understood that I do not limit myself to the exact construction shown and described, but that I hold myself at liberty to make such slight changes and al-



terations as fairly fall within the spirit and scope of my invention.

What I claim as new is—

5 1. A tray, hopper, or receptacle adapted to hold nails in bulk, and constructed to receive and support within its lower portion a series of independent and portable magazines, in combination with said magazines, the arrangement being such that by agitating the nails in the  
10 tray, hopper, or receptacle they will gravitate into and be arranged in serial order in the magazines, substantially as set forth.

15 2. The combination, with magazines adapted to receive nails arranged in serial order, of the case to support said magazines in position to be charged and a series of beveled bars to deflect nails into the magazine, substantially as set forth.

3. The combination, with magazines adapted to receive nails arranged in serial order, of the case for supporting said magazines in position to be charged, and the deflector adapted to rest upon the case in which the magazines are supported, said deflectors being provided with a bottom formed of a series of parallel beveled  
25 bars, substantially as set forth.

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

STUART PERRY.

Witnesses:

J. T. WOOSTER,

DANIEL P. WOOSTER.