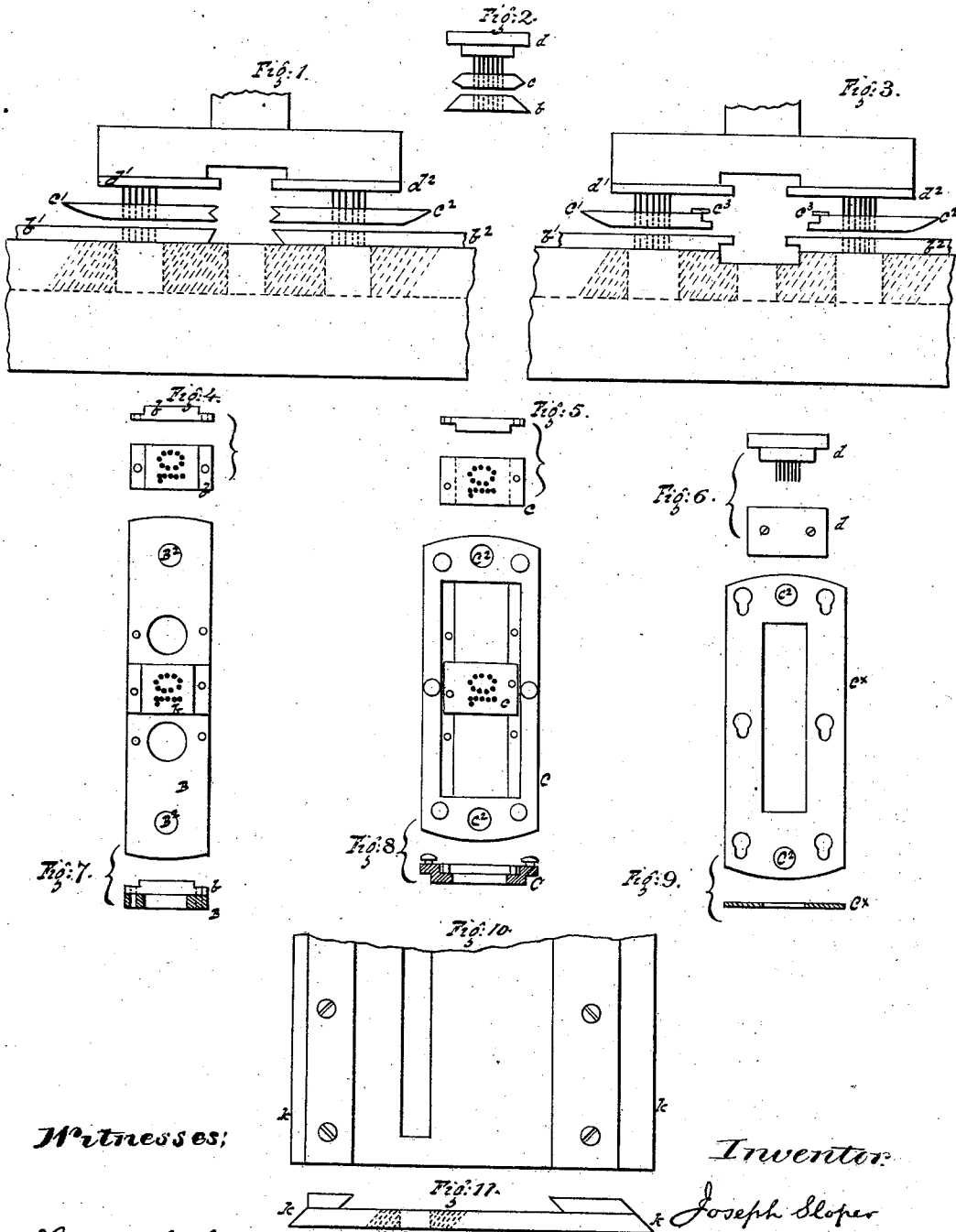


J. SLOPER.
Perforating Stamps.

No.155,340.

Patented Sept. 22, 1874.



Witnesses:

Harry C. Blair.
H. A. Matthews.

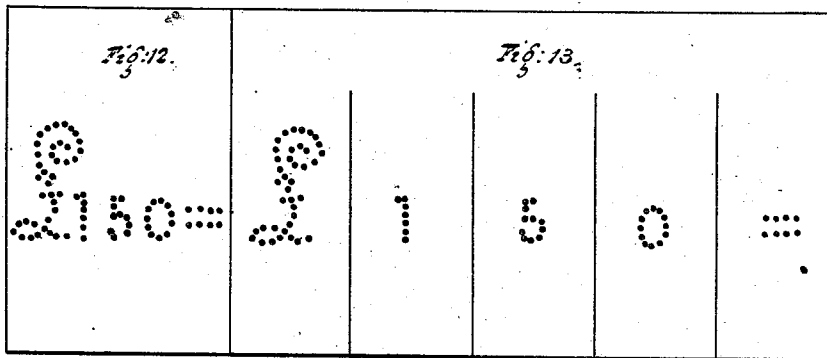
Inventor:

Joseph Sloper
by H. W. Bradlee & Co.
Attys.

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Harry C. Clark

Inventor.

Joseph Sloper
by H. W. Beadon & Co. Attys.

UNITED STATES PATENT OFFICE.

JOSEPH SLOPER, OF LONDON, ENGLAND.

IMPROVEMENT IN PERFORATING-STAMPS.

Specification forming part of Letters Patent No. **155,340**, dated September 22, 1874; application filed February 6, 1874.

To all whom it may concern :

Be it known that I, JOSEPH SLOPER, of London, England, have invented improvements in perforating-stamps for producing perforations (grouped to represent marks, letters, figures, or devices upon or) through paper and other materials, of which the following is a specification:

This invention consists mainly, first, in the combination of certain removable parts of the perforator with suitable stops to secure the proper register of the parts when the machine is used; and, second, in the combination of certain fixed parts with certain movable parts, as will be fully described hereinafter.

In the drawings my invention is represented fully in detail elevation and plan views.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

d¹ d², Figure 1, represent a perforator of usual construction, but separated into two parts, as shown, which is suitably attached to a proper standard, adapted to move vertically by the usual well-known or other proper means. *c¹ c²* represent the clearer, also similarly divided, which is either connected at each end to the divided matrix *b²*, or suspended in any proper manner from the frame of the machine. The adjoining ends of these divided parts are properly recessed, as shown in Figs. 1 and 3, to receive and hold securely the intermediate removable pieces *d c b*, Fig. 2.

The stationary parts described, and also the removable, may be provided with any suitable device, it being designed, of course, to use in

practice such devices for the fixed sides as will be desired constantly, and such others for the removable center-pieces as require to be changed from time to time, such as dates and numbers.

For the purpose of insuring the proper relative position between the fixed and removable parts, in order that a perfect register may be obtained, I employ stops or blocks, or equivalent devices, adapted to hold the removable pieces in their proper place, the stops passing through the openings *c² B²*, Figs. 7, 8, and 9.

If desired, the removable parts may be employed in connection with a removable carriage, as shown in Figs. 10 and 11.

The devices so constructed may be used in series, either circular or otherwise, for producing a series of marks, as indicated in Figs. 12 and 13; or they may be used singly.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the removable perforator, clearer, and matrix with suitable stops or check-pins, to secure the register of the parts when in operation, as set forth.

2. The combination of the permanent perforator, clearer, and matrix with the removable perforated clearer and matrix, as described.

JOSEPH SLOPER.

Witnesses:

G. F. WARREN,

17 Gracechurch Street, London.

JOHN DEAN,

Of same place.