J. H. MATTHEWS & J. STEIN.

STAMP.

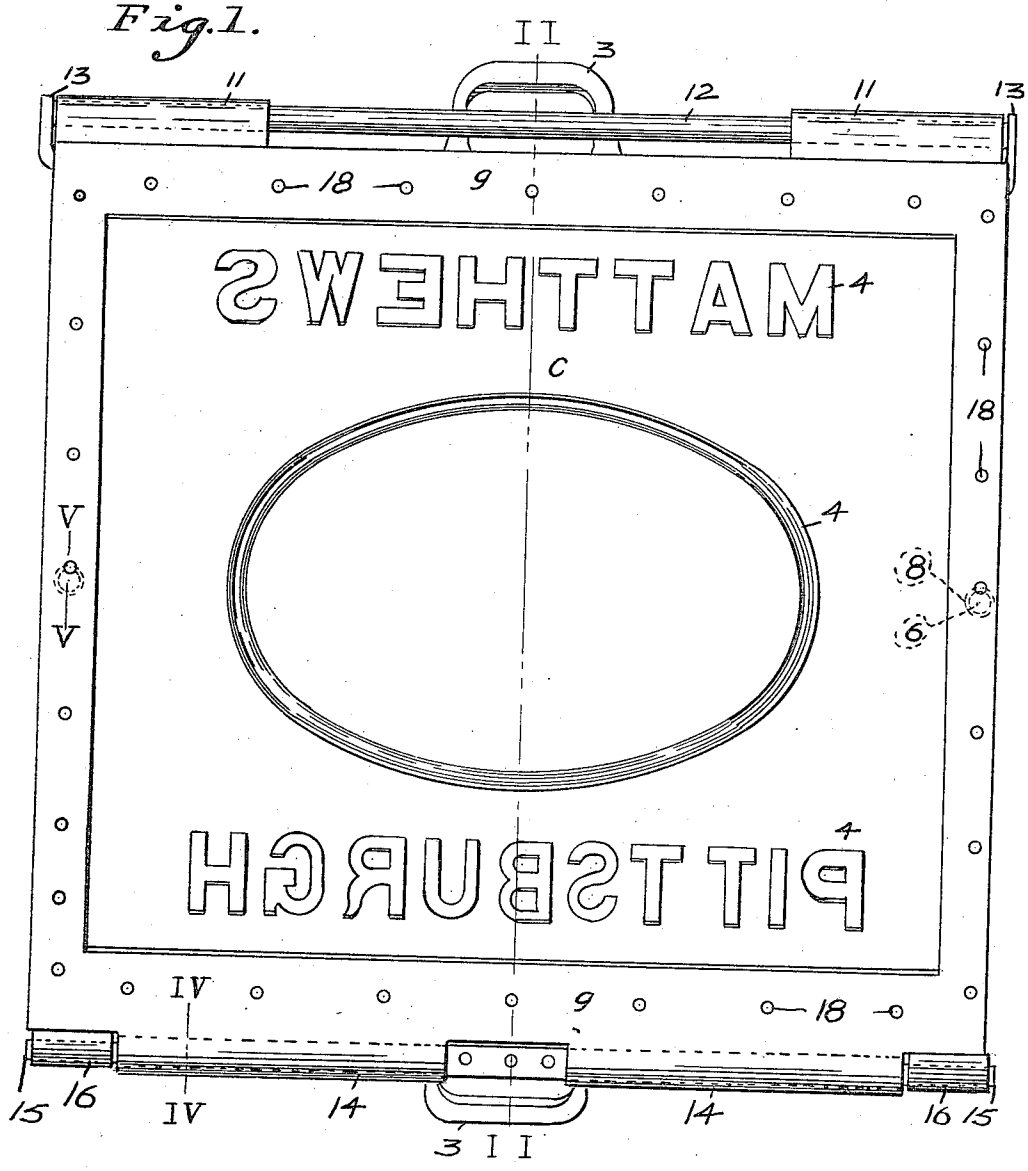
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1,081,394.

Patented Dec. 16, 1913.

2 SHEETS—SHEET 1.

Fig. 1.



WITNESSES

R. F. Wilworth

J. H. Harrison.

INVENTORS

James H. Matthews,

and Joseph Stein

by Edward A. Lawrence

their Attorney.

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

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2 SHEETS—SHEET 2.

Fig. 2.

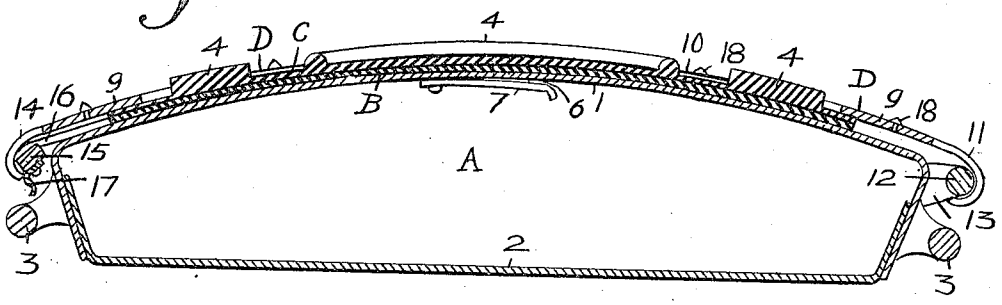


Fig. 4.



Fig. 5.

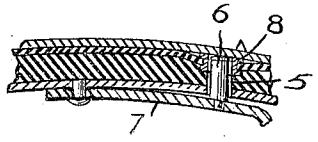
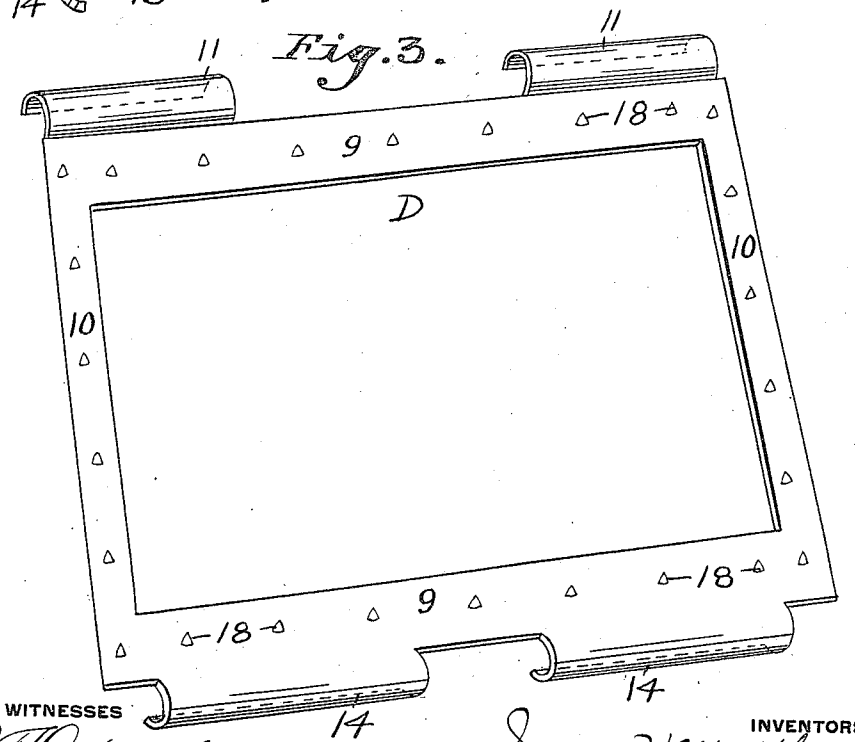


Fig. 3.



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R. F. Wilworth

J. H. Harrison.

INVENTORS

James H. Matthews.

and Joseph Stein

by Edward A. Laurence,

their Attorney.

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JAMES H. MATTHEWS AND JOSEPH STEIN, OF PITTSBURGH, PENNSYLVANIA, ASSIGNORS TO JAS. H. MATTHEWS & CO., OF PITTSBURGH, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

STAMP.

1,081,394. Specification of Letters Patent. Patented Dec. 16, 1913.

Application filed May 12, 1913. Serial No. 767,001.

To all whom it may concern:

Be it known that we, JAMES H. MATTHEWS and JOSEPH STEIN, citizens of the United States, and residing in the city of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented or discovered new and useful Improvements in Stamps, of which the following is a specification.

Our invention consists in new and useful improvements in rocker-stamps which are used to stamp or mark plane surfaces, such, for instance, as metal sheets or bars. Such stamps are provided with a convex impression face upon which is mounted the rubber die consisting of a sheet or plate with the proper raised characters. It has been the general custom to secure the die to the impression face by means of cement, but the necessary cleaning of the die to remove excess ink tends to loosen the same, and a separate stamp must be provided for each die. To avoid these difficulties, we provide means for detachably mounting the die on the stamp, thus enabling the same stamp to be used with a plurality of different dies and also enabling the die to be cleansed without loosening it from the stamp. A bed or sheet of relatively soft rubber is preferably interposed between the die and the impression face of the stamp.

The die is held in place on the stamp by means of an open frame which we show pivoted at one end of the impression face and whose other end is clampable at the other end of the impression frame, the body of the frame being stretched down snugly on the die, holding it flat on the impression face. The frame also prevents the adhesion of the inked rubber to the surface being printed from resulting in buckling or tearing loose of the die. Resiliently mounted dowel-pins extend out through the impression face and engage holes in said bed and die to properly position the same and prevent the slipping of the latter while the frame is being clamped down. Means are also provided for holding the frame out of contact with the surface being marked, thus preventing the blurring or improper inking of said surface.

In the accompanying drawings, Figure 1 is a face plan view of our improved stamp; Fig. 2 is a sectional view of the same along the line II—II in Fig. 1; Fig. 3 is a perspective of the frame dismounted; Fig. 4 is an enlarged broken section along the line IV—IV in Fig. 1; and Fig. 5 is a similar view along the line V—V in Fig. 1.

The following is a detailed description of the drawings. A represents a rocker stamp having a convex impression face 1, a back plate 2 and hand grasps 3.

B is a sheet of relatively soft rubber placed on said impression face as a bed for the die C. The die C is a sheet or plate of rubber or similar material having on its face the desired raised characters 4 which are to be printed on the surface marked.

5 represents one or more holes through the impression face 1 through which extends the dowel-pin 6 resiliently mounted in any convenient manner, as by being supported on leaf-spring 7 secured to the under side of the impression face. Said pin extends up through registering holes in the bed B and the die C, the hole in die C being provided with an eyelet 8 to prevent tearing or wear. When the frame D is clamped in place, the dowel-pins are depressed so as not to interfere with the snug fit of the frame down on the die.

D is a flat metal open frame composed of end bars 9 and two or more side or cross bars 10. The material of said frame is preferably somewhat resilient so as to conform, when clamped in place, to the curve of the impression face. One of the end bars 9 is provided with a pair of curved ears 11 which are hooked over a rod 12 which is supported from one end of the stamp by means of brackets 13. The frame D is thus detachably pivoted to one end of the impression face. The other end bar 9 is provided with curved ears 14 which are adapted to hook over the rock bar 15 supported at the other end of the impression face 1 by means of brackets 16. The ends of bar 15 are cylindrical to be journaled in said brackets while the body of said bar is a parallelogram in cross section, one axis being of greater length than the other.

17 is a thumb-piece secured to the bar 15 by means of which it may be turned.

When the longer axis of the bar 15 is at right angles to the impression face 1, the ears 14 slip down easily over said bar, but when said bar is thrown into the position shown in Figs. 2 and 4, said bar clamps said ears firmly and stretches the frame D down

tightly upon the die C which is thus flattened out and held snugly on the impression face. It is evident that the throwing of the bar 15 back into the position first above described, releases the ears 14 and permits the frame D to be swung up out of the way for the removal of the die.

Unless provision is made to prevent the same, the compression of the die, while being rocked over the surface being printed, may result in contact between the frame D and the said surface. As said frame is more or less smeared with ink, this would result in smearing and disfiguring said surface. To prevent this, we provide the bars 9 and 10 with a plurality of conical projections 18 which are adapted to contact with said surface and space the frame D away therefrom. The points of said projections make little or no impression or mark.

What we desire to claim is:—

1. In combination with a rocker stamp having an impression face, dowel pins extending outwardly from said impression face, a flexible die laid upon said impression face and provided with positioning holes engaged by said dowel pins, and an open metal frame adapted to be clamped down on said impression face, said frame bearing on said dowel pins and on the non-printing portion of said die, for the purposes described.

2. In combination with a rocker stamp having an impression face, resiliently extended dowel pins extending outwardly from said impression face, a flexible die laid upon said impression face and provided with positioning holes through which said dowel pins extend, and an open metal frame adapted to be clamped down on said impression face, said frame bearing on the non-printing portion of said die and depressing said dowel pins, for the purposes described.

3. In combination with a stamp having a convex impression face, a flexible die mounted on said face, a holding frame pivoted at one end of said impression face and provided with curved ears on its free end, and a rocking eccentric locking-bar journaled at the other end of said face and adapted to engage said ears and clamp said frame down upon said die.

4. In combination with a stamp having a convex impression face, a flexible die mounted on said face, a holding frame pivoted at one end of said impression face and provided with curved ears on its free end, and a rocking eccentric locking-bar, of rectangular cross-section, journaled at the other end of said face and adapted to engage said ears and clamp said frame down upon said die.

Signed at Pittsburgh, Penna., this 10th day of May, 1913.

JAMES H. MATTHEWS.
JOSEPH STEIN.

Witnesses:
E. A. LAWRENCE,
W. S. WALSH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."