

No. 757,758.

PATENTED APR. 19, 1904.

H. S. MAIDHOF.
EMBOSSING MACHINE.

APPLICATION FILED MAR. 10, 1903.

NO MODEL.

Fig. 1.

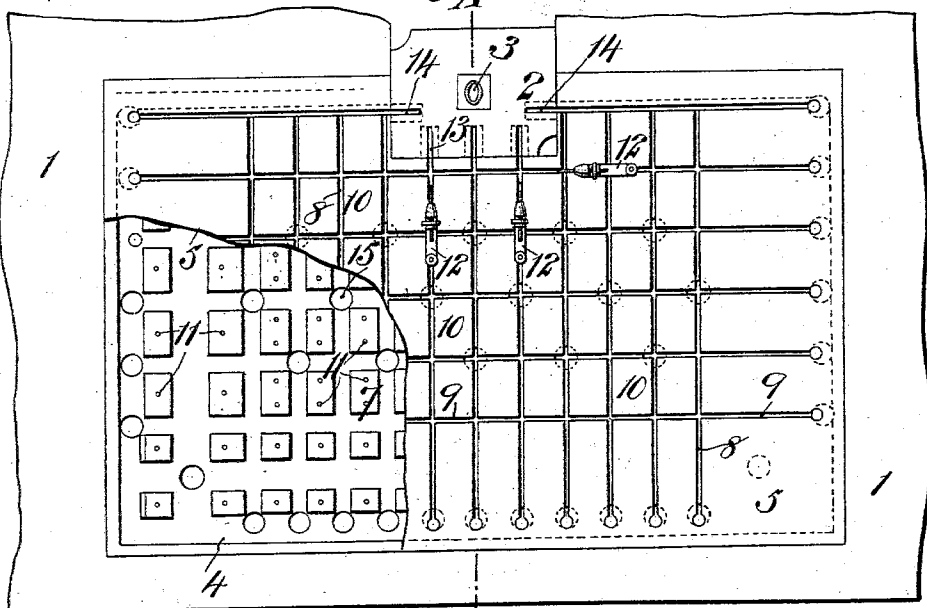


Fig. 2.

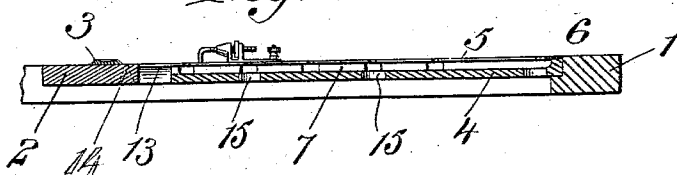


Fig. 3.

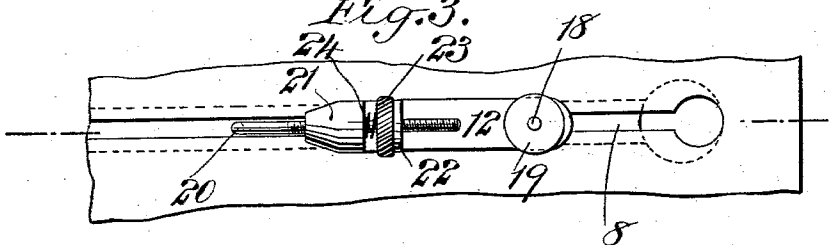
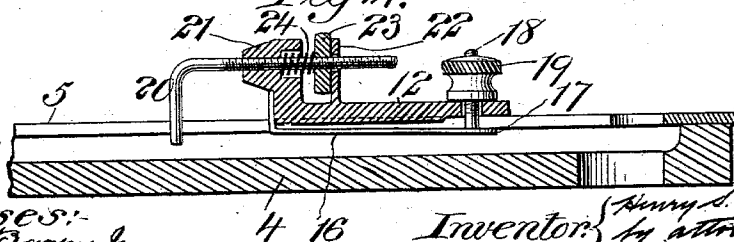


Fig. 4.



Witnesses:
George Barry Jr.
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UNITED STATES PATENT OFFICE.

HENRY S. MAIDHOF, OF NEW YORK, N. Y.

EMBOSSING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 757,758, dated April 19, 1904.

Application filed March 10, 1903. Serial No. 147,097. (No model.)

To all whom it may concern:

Be it known that I, HENRY S. MAIDHOF, a citizen of the United States, and a resident of the borough of Manhattan, in the city and State of New York, have invented new and useful Improvements in Embossing-Machines, of which the following is a specification.

My invention relates to certain improvements in embossing-machines, and is directed more particularly to certain improvements in the construction of the platen and gage-plate whereby the positions of adjustable stops thereon may be accurately determined, so that the monogram, address, or other matter to be embossed may be accurately stamped in the required position in a rapid and efficient manner.

A further object is to provide improvements of the above character whereby a wide range of adjustability is given to the stops, so that the position of cards which do not project beyond the edges of the platen may be accurately determined by the stops without the use of blocks, as has hitherto been necessary.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Figure 1 represents in top plan a portion of an embossing-machine table with my improved gage-plate and platen thereon. Fig. 2 is a vertical section taken from front to rear in the plane of the line A A of Fig. 1. Fig. 3 is an enlarged top plan view of a portion of the gage-plate and one of the adjustable stops, and Fig. 4 is a longitudinal vertical section through the same.

The table of the machine is denoted by 1, and it may be made of any suitable shape and size to suit different requirements. The table is provided with suitable recesses for the reception of the gage-plate and platen, so that they are supported with their top surfaces flush with the top of the table.

The platen is denoted by 2, and it may be provided with any suitable pad 3 for receiving the impression of the die. (Not shown herein.)

The gage-plate comprises a base 4 of suitable material—such, for instance, as cast-

iron—and a sectional top plate 5. The base-plate 4 is provided with an uprising peripheral flange 6, upon which the edges of the plate 5 rest. The top plate 5 is further spaced from the base 4 by spacing-blocks 7, uprising from the base and preferably cast integral therewith.

The top plate 5 of the gage is provided with a plurality of longitudinal and transverse intersecting grooves 8 9, extending across the top plate and separating the interior of the same into a series of rectangular members 10, which are held in position upon the spacing-blocks 7 by suitable rivets 11. Dovetailed grooves are thus formed for permitting adjustable stops 12 to be moved along the gage-plate and secured thereto in any desired position.

The gage-plate projects inwardly along both sides of the platen 2, and the platen is provided with dovetailed grooves 13, which form extensions of the longitudinal grooves 8, and with dovetailed grooves 14, which form extensions of the transverse grooves 9. Adjustable stops 12 may thus be moved along the gage-plate into the platen up to a point in close proximity to the impression-pad 3, thus obviating the necessity of blocking the platen when it is desired to emboss cards the edges of which do not project beyond the edges of the platen, as has heretofore been common. This feature materially increases the range of usefulness of the machine and at the same time insures absolute accuracy in the adjustment even of small cards with respect to the die-plate.

To permit the dovetailed grooves to be kept free from dust and other foreign matter, I provide the base 4 of the gage-plate with a plurality of holes 15, through which the dust and other foreign matter may be blown out of the said grooves.

By providing a plate with intersecting longitudinal and transverse grooves I am enabled to procure a wider range of adjustment for the gage than has been possible heretofore, the gage-plate at the same time being strong and durable.

The adjustable stop which I have shown

herein comprises a base-plate having an arm 16 projecting downwardly from the base-plate and thence rearwardly spaced from the plate and substantially parallel therewith. The rear end of the arm is provided with an enlarged head 17, which is fitted to overlap the edges of the groove within which it is inserted. A screw 18 projects upwardly from the head 17 through the groove and the base and is engaged by a suitable clamping-nut 19.

An auxiliary adjusting device is provided for the stop, which comprises a screw-threaded L-shaped rod 20, mounted to slide longitudinally in front, and rear ears 21 22, projecting upwardly from the base of the stop. An adjusting-nut 23 is engaged with the rod between the ears and is held normally pressed against the ear 22 by means of a coil-spring 24, seated within the ear 21. This prevents any lost motion on the part of the auxiliary adjusting device when it has been adjusted to the required point.

It is evident that changes might be resorted to in the form, construction, and arrangement of the several parts without departing from the spirit and scope of my invention. Hence I do not wish to limit myself strictly to the structure herein shown and described; but

What I claim is—

1. A gage-plate having grooves therein for the reception of adjustable stops, and a platen having grooves therein forming extensions of the grooves in the gage-plate.

2. A gage-plate comprising a top plate having grooves therein for the reception of adjustable stops, said grooves intersecting thereby forming separated top-plate sections and a base secured to the top plate and having projections for spacing the separated top-plate sections from the base.

3. A gage-plate comprising a top plate having grooves therein for the reception of adjustable stops, said grooves intersecting and thereby forming separated top-plate sections and a base secured to the top plate and having projections for spacing the separated top-plate sections therefrom, the said base being provided at intervals with cleaning-holes therethrough.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 7th day of March, 1903.

HENRY S. MAIDHOF.

Witnesses:

FREDK. HAYNES,
C. S. SUNDGREN.