

A. HENDRICKS.
STAND FOR DUPLICATING MACHINES.
APPLICATION FILED MAR. 25, 1909.

948,728.

Patented Feb. 8, 1910.

2 SHEETS—SHEET 1.

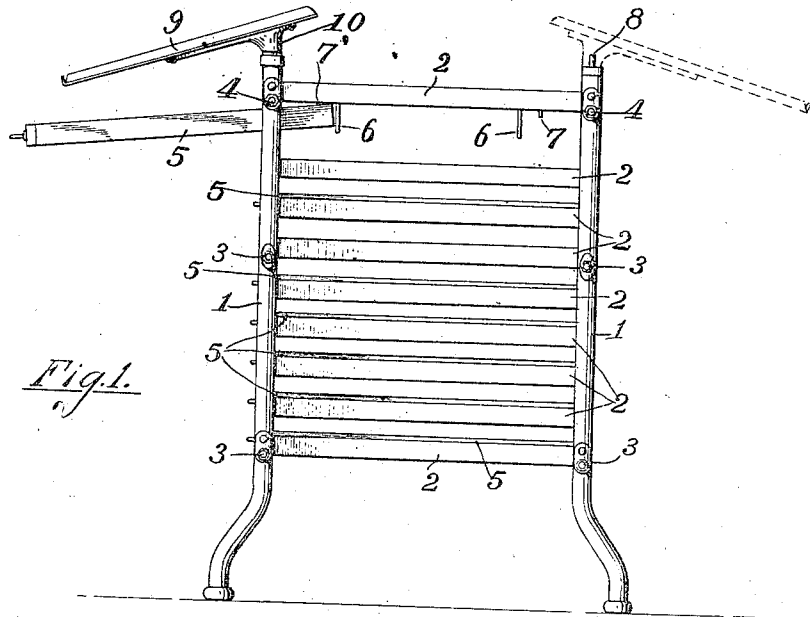


Fig. 1.

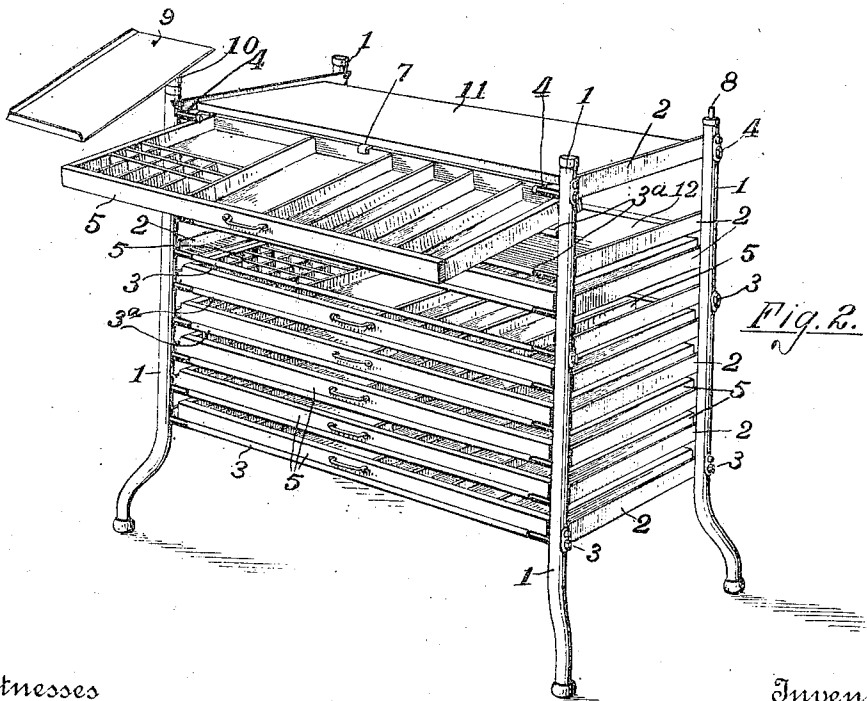


Fig. 2.

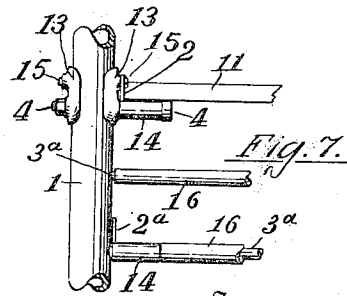
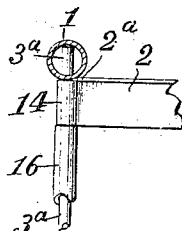
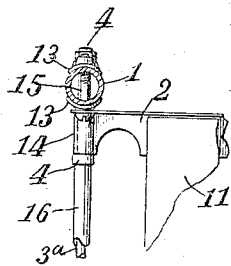
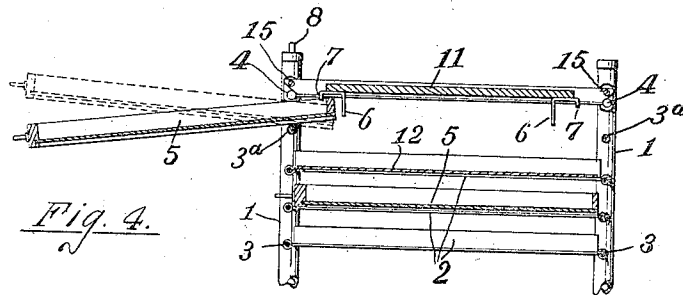
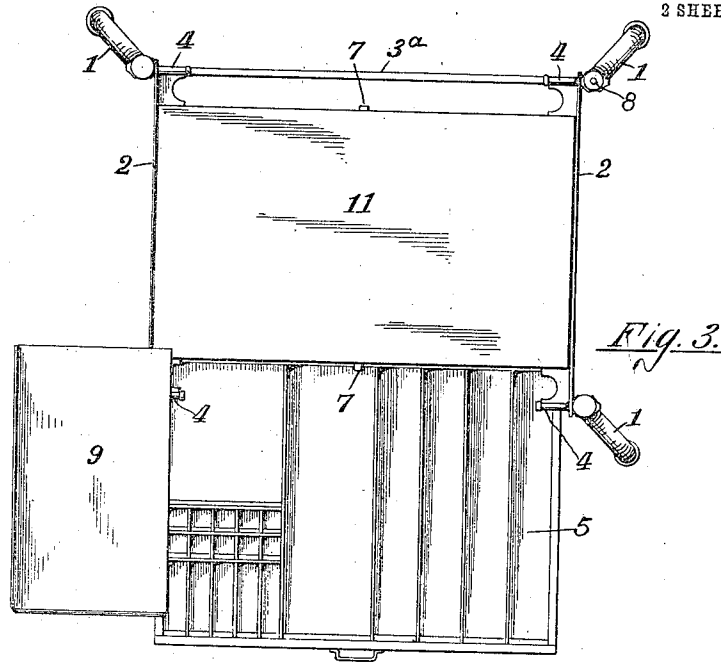
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UNITED STATES PATENT OFFICE

AUGUSTIN HENDRICKS, OF GRAND RAPIDS, MICHIGAN.

STAND FOR DUPLICATING-MACHINES.

948,728.

Specification of Letters Patent.

Patented Feb. 8, 1910.

Application filed March 25, 1909. Serial No. 485,771.

To all whom it may concern:

Be it known that I, AUGUSTIN HENDRICKS, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Stands for Duplicating-Machines; 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 appertains to make and use the same.

My invention relates to improved stands for duplicating machines, and its object is to provide a substantially metallic structure, adapted to contain trays to hold the type; to pivotally support a suitable device upon which to set the type in movable relation to the tray containing the type; to support the trays interchangeably in proper position for use in setting the type, to provide a suitable stand for a duplicating machine, and to provide the device with various new and useful features, hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawings, in which:

Figure 1 is an end elevation of a device embodying my invention; Fig. 2 a perspective of the same; Fig. 3 a plan view of the same; Fig. 4 a detail in transverse vertical section of the same; Fig. 5 an enlarged detail showing the means for connecting the corner posts and angle irons that form portions of the frame; Fig. 6 the same of posts and angle irons, which form the tray supports; and, Fig. 7 a detail of a portion of one corner of the structure, shown in elevation.

Like numbers refer to like parts in all of the figures.

1 represents the corner posts, which are preferably of steel tubes arranged at the respective corners of a rectangular structure. Extending horizontally across the end of the structure is a series of angle bars 2, the ends of the horizontal members of which are formed tubular and surround rods 3 and 3^a extending across the front and rear of the structure at suitable intervals and are arranged parallel.

To form a rigid frame-work, any convenient number of these angle bars have their vertical members extended alongside of the posts 1 and secured thereto by screws 15. To permit access to the rear of the tray when

in use, I prefer to remove the middle portion of the upper rod, leaving the ends of the same in the form of short studs 4, to which the upper angle bars are connected as described. Any convenient number of the rods 3 are extended wholly through the posts and thus serve as tie-bolts to form portions of the frame. The rods 3^a do not extend wholly through the posts and are merely inserted in the openings in the posts. Extending between the rods that are in the same plane and at each end of the structure are the angle bars 2 heretofore described. Upon the upper pair of angle bars is supported a table 11 on which the machine or any other convenient device may be placed, preferably a duplicating machine, adapted to produce what is known as "form letters" resembling typewritten letters.

Upon each pair of opposing angle bars is removably supported a tray 5, adapted to contain type or other convenient devices, which tray may be removed and supported upon the upper bar 3^a with its rear edge engaged with the under side of the table and held down thereby, and detachably secured in place by downwardly projecting stops 6 and 7 on the under side of the table, the stop 6 preventing inward movement of the tray and the stop 7 engaging the inside of the rear wall of the tray to hold the tray from moving outward, the latter stop being short enough so that by raising the front of the tray, the rear wall will pass beneath the same and disengage therewith, or by reverse movement be engaged therewith.

On one or more of the corner posts is a vertical pin 8 to engage a socket 10, upon which pin the socket is rotative and supports a device consisting of an inclined table having one end and one side wall 9, on which table the type may be set. The device is adapted to be operated at either side of the case and the table 9 can be swung horizontally about its pivot over the tray and table or away from over the same to adjust it conveniently for taking the types one by one from the tray and placing the same on the said table or to transfer the type to the machine. To provide suitable fastenings for the screws 15, the stay rods 3, and studs 4, I provide concave saddles 13 of cast metal arranged in pairs at opposite sides of the posts and embracing the same through which saddles the various screws 15, studs 4, and rods 3 are extended. The saddles thus

firmly clamp the posts without crushing the same and also provide a very substantial support for the rods and screws. A plate 12 is provided which can be inserted in place of a removed tray, thus covering the tray beneath and protecting the contents thereof. The rods 3^a are preferably provided with tubular sleeves 13, which abut against the tubular ends 14 of the angle irons and hold the same close to the corner posts. The plane of the horizontal members of the angle irons is below the top of the rods 3 and 3^a. The rods thus form front and rear stops for the trays, and extending between the same form a very neat and attractive finish to the device.

Obviously the table 11 may be used to support any other machine or object and the trays may be adapted for tools or other analogous things, and the structure variously modified otherwise without departing from my invention.

What I claim is:—

1. A duplicating machine stand, comprising tubular legs, pairs of saddles embracing the legs, rods extending through the saddles, angle bars having their horizontal members tubular and surrounding the rods, and sleeves on the rods abutting against the ends of the angle bars.

2. A duplicating machine stand, comprising tubular corner posts, pairs of saddles embracing the corner posts, studs extending through the saddles, angle bars having their horizontal members tubular and surrounding the studs, a top supported on the angle bars, stops extending downward from the top and spaced apart, a tray having a rear wall detachably inserted between the stops, and a support for the tray beneath the studs.

3. A duplicating machine stand, comprising corner posts, rods connecting the corner posts at front and rear, angle bars having their horizontal members tubular at the ends and surrounding said rods, trays removably supported by the angle bars, a top secured to the upper angle bars, stops on the under side of the top to engage the rear wall of a tray, and a support for said tray.

4. A duplicating machine stand, comprising tubular corner posts, rods at the front and rear connecting the posts and spaced apart, angle bars having vertical members engaging the posts and horizontal members having their ends in tubular form and surrounding the rods, and also extending across the ends of the structure, sleeves on the rods between said tubular ends, saddles embracing the posts and through which the rods are extended, and screws extending through the vertical members of the angle bars and the saddles.

5. A duplicating machine stand, comprising tubular corner posts, saddles embracing the corner posts, rods extending through the saddles, rods supported by the posts and extending partially through the same, angle bars having tubular ends surrounding the rods, sleeves on the rods between said tubular ends, screws in the vertical members of the angle bars and in the saddles, a top on the upper pair of angle bars, and stops on the top to engage and hold a tray.

6. A duplicating machine stand, comprising a fixed table top to support a machine, a tray to contain type, means for supporting the tray projected in front of said table top, an inclined table having one side wall and one end wall, and means for detachably and pivotally supporting said inclined table to swing over the fixed top and tray or away from over the same.

7. A duplicating machine stand, comprising corner posts, a fixed table top supported thereby, means for supporting a series of type trays below said top, means for supporting a tray projected in front of said fixed top, pins in the corner posts, a socket detachably and pivotally supported on a pin and an inclined table supported by the socket and having one end wall and one side wall.

In testimony whereof I affix my signature in presence of two witnesses.

AUGUSTIN HENDRICKS.

Witnesses:

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