

July 18, 1933.

H. B. WARD

1,918,943

HOLDER FOR DIES FOR PUNCHING STEREOTYPE PRINTING PLATES

Filed Oct. 16, 1930

2 Sheets-Sheet 1

Fig. 1.

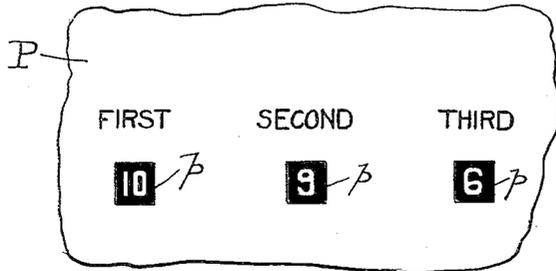


Fig. 2.

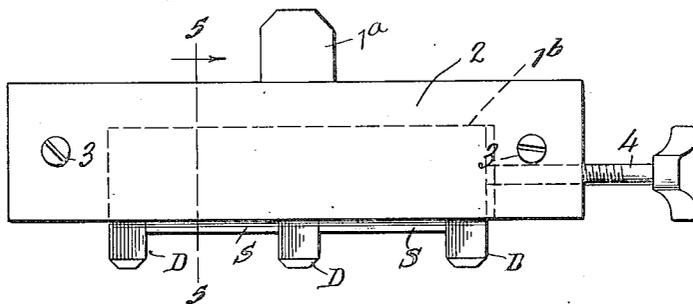


Fig. 3.

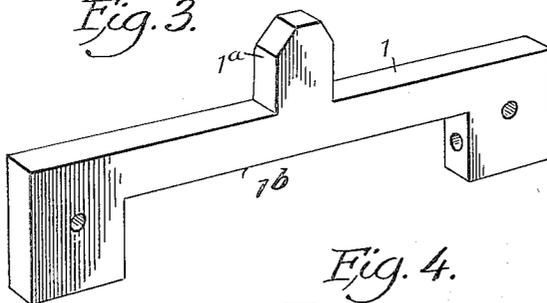


Fig. 4.

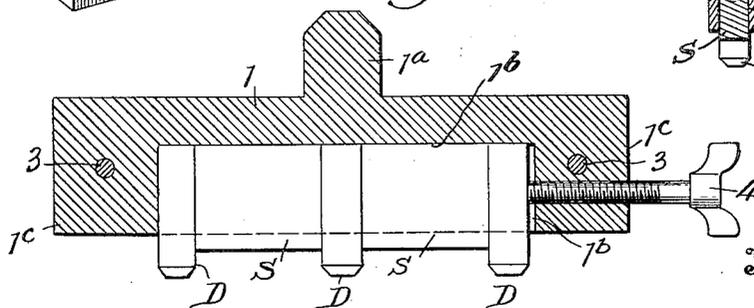
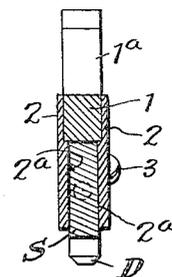


Fig. 5.



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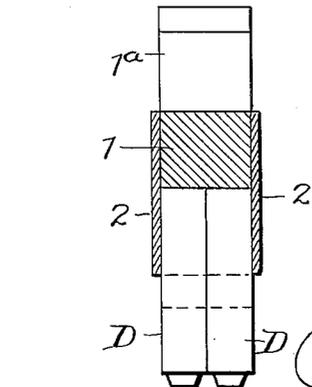
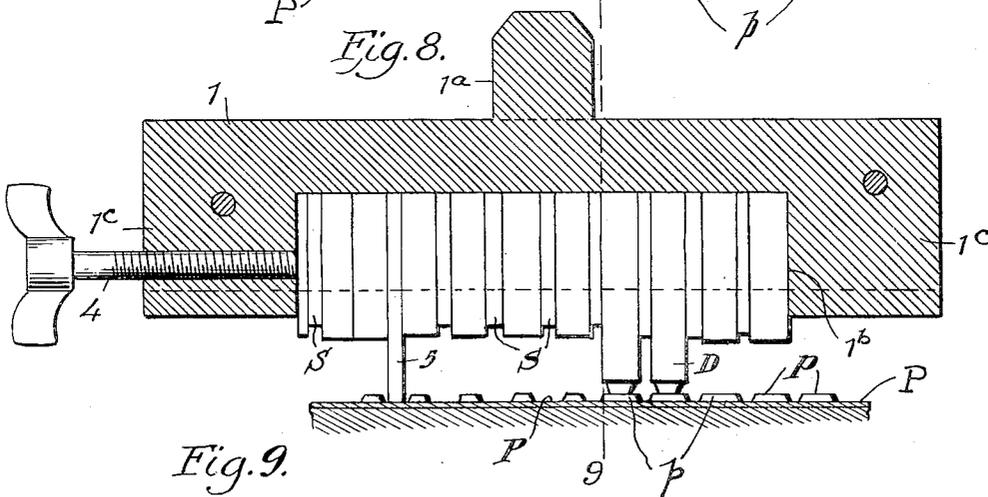
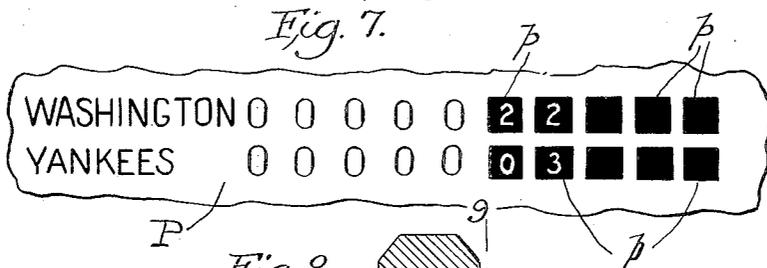
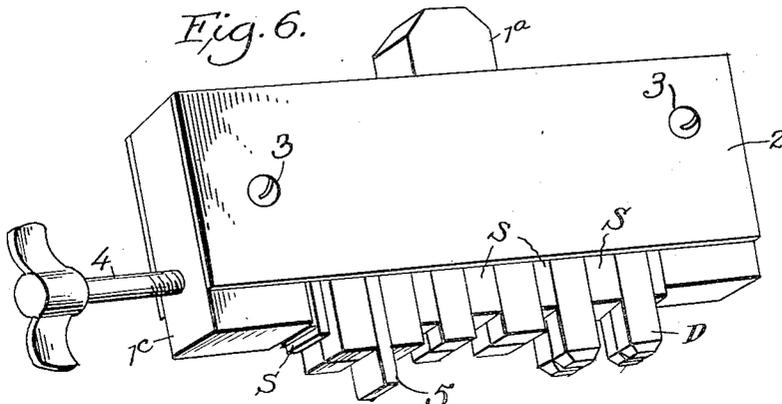
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HOLDER FOR DIES FOR PUNCHING STEREOTYPE PRINTING PLATES

Filed Oct. 16, 1930

2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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HOLDER FOR DIES FOR PUNCHING STEREOTYPE PRINTING PLATES

Application filed October 16, 1930. Serial No. 489,132.

My invention provides a novel holder for letter or numeral dies whereby they can be simultaneously punched on the black squares usually reserved on stereotype printing plates to enable the results of races, ball games and the like to be printed at the earliest possible time.

In newspaper offices it is customary for the stereotype plates containing reports of ball games, races and the like, to have raised blank spaces left thereon at proper points in which spaces numerals or letters showing the results can be punched after the plates are made or are on the press. These spaces appear as black spots on the paper until they are punched by suitable dies, then the numeral or letter will appear in white on such spots. The stereotype plates are secured on the press cylinders preparatory to printing an edition, and if the results of games or races have not been received at the time it is necessary to begin printing the first papers printed will only show the results obtained at the time the edition was started. When, during the run of the edition, later results are obtained the press can be momentarily stopped and the later results indicated by punching the proper numerals or letters in the proper blank spaces on the stereotype plates. Customarily these figures have been punched one at a time, but with my novel holder a series of blank spaces in a row on a stereotype plate can be properly punched with the proper letters or numerals at one operation, thus lessening the time required to stop the press and insert the latest reports in the plates.

My invention provides both a holder for a single row of dies as may be required for racing reports; and also a holder for two rows of dies as may be required for base ball reports; and enables the dies to be simultaneously punched at one operation. The larger holder will punch one to twelve figures with as many dies at one operation. The several dies are removable and interchangeable and can be readily assembled, positioned and secured in the holder.

Each holder is provided with a centrally disposed anvil projection which is struck

by a hammer to embed the die faces in the stereotype metal, the force of the blow being equally distributed to the several dies. And I further provide a "balancer" to insure accuracy in positioning the holder on a plate, and equal distribution of the force of the blow of a hammer on the anvil of the die.

In the accompanying drawings I have illustrated both a "racing" die holder and a "base ball" die holder, these being constructed substantially alike; but the racing die holder is designed to hold one row of dies, while the baseball holder is designed to hold two parallel rows of dies. I will explain the holders with reference to said drawings, and in the claims set forth the features of the invention for which protection is desired.

In said drawings:

Fig. 1 is a view of a portion of a stereotype plate P having raised printing spaces *p* punched by dies to show the results of a race.

Fig. 2 is a side view of a "racing" die holder with the dies in position therein. Fig. 3 is a detail view of the anvil member thereof detached. Fig. 4 is a longitudinal section through the holder with the dies therein. Fig. 5 is a transverse section on the line 5-5 Fig. 2.

Fig. 6 is a perspective view of a baseball holder with the balancer and dies in position thereon.

Fig. 7 is a view of a portion of a stereotype plate P having printing spaces *p* some of which have been punched by dies to show the results of a baseball game.

Fig. 8 is a longitudinal section through the holder shown in Fig. 6 with dies adjusted to make the impressions indicated on the spaces in Fig. 7.

Fig. 9 is a transverse section on the line 9-9 Fig. 8.

The holder (Figs. 2-5) comprises a body 1 having a recess 1*b* in its lower side, for the reception of the bases of the removable dies D, a short centrally located anvil projection 1*a* on its upper side, and preferably equally sized end portions 1*c* at opposite ends of the recess. Secured to opposite sides of the body portion 1 are side plates 2

which close the sides of recess 1*b* and may be plain as in Fig. 9, or may have projections 2*a* on their inner faces as in Fig. 5 to fit and project into the recess 1*b* between the ends 1*c* of the body member 1 and reduce the width of the recess to that of the dies. The side plates may be secured to the body member by screws 3 or in any preferred manner, and in some cases might be formed integral with the body if desired.

The face of dies D (bearing the numerals or letters) have die faces similar to those usually used in newspaper offices for cutting intaglio letters or numerals in the blank spaces on stereotype plates for the purposes above mentioned; but the bodies of my dies are smaller than the body of the dies usually used in newspaper offices, which ordinarily are about four or five inches long and three-eighths of an inch square, while my dies are about one inch long and five thirty-seconds of an inch square. These dies can be set in the recess 1*b* in any desired order with their working ends projecting out of the recess as shown, and removable slugs or fillers S are inserted between the dies to suitably space them in the holder; and when properly located the dies and slugs can be clamped in the holder by any suitable means. I preferably use a thumb screw 4 tapped through a threaded opening in one of the ends 1*c*, as shown in the drawings.

The baseball die holder shown in Figs. 6 to 9 is constructed like the holder shown in Figs. 2 to 5, similar parts being similarly lettered in the drawings. In the baseball die holder however the recess 1*b* is made wide enough to hold two or more rows of dies D; which are suitably spaced apart by slugs S.

A "balancer" 5 is inserted in the baseball holder but spaced from the dies, the end of such balancer being adapted to rest on the base of the printing plate P below the printing surface (as indicated in Fig. 8) while the dies rest upon the raised spaces *p*; and when the anvil 1*a* is struck the balancer prevents the printing surface of the plate being accidentally marred, and insures equal distribution of the full force of the blow to the several dies; the balancer being especially important when the dies are located at one side of the anvil 1*a*.

The dies can be readily positioned as desired by the operator in the holder and held in place by tightening the screw. The anvil 1*a* is centrally positioned and projects a short distance above the top of the holder so that the full force of a blow upon this anvil is applied directly and uniformly through the body to all of the dies. The holder may accommodate any desired number of dies, and the force of the blow on the small projecting anvil will be equally distributed to the dies.

The results of any one race are printed in one line as in Fig. 1, and therefore the report of any race can be easily made with one set of dies. The results of baseball games come in by innings and are printed in parallel lines as in Fig. 7; this requires the use of two rows of dies; and usually requires several changes, or additions to the reports of the innings as the game progresses. Usually when the paper starts publication only a few innings have been played; and as the game progresses the reports of additional innings have to be punched on the stereotype plate.

In operation the holder can be held in one hand with the dies in contact with the proper blank spaces *p* of the stereotype plates to be punched; then a sharp blow with a hammer on the anvil insures the dies punching the proper portions of the stereotype plate. In addition to punching baseball and racing results after the plates are on the presses, races and additional innings are often punched on the plates before the plates are put on the presses.

I claim:

1. A holder for dies, comprising a body having a longitudinal recess in its underside adapted to receive a plurality of removable dies; an anvil on the upper side of the body; side plates closing the sides of the recess and having projections on their inner faces corresponding in contour to the side contour of the recess and extending thereinto; and means for clamping the dies in the recess.
2. A holder for dies for punching racing and baseball results in stereotype printing plates; comprising a narrow and low body having a longitudinal recess in its under side adapted to receive a plurality of removable and changeable dies, and a short centrally disposed anvil on its upper side having a small impact surface for receiving blows of a hammer; side plates closing the sides of the recess; the side plates having projections on their inner faces corresponding in contour to the side contour of the recess and extending thereinto; and a screw tapped through one end of the body adapted to clamp the dies in the recess.
3. A die holder for the purpose described; comprising a body having a recess for the reception of removable and changeable dies and an anvil opposite the recess; and a removable balancer inserted in the recess with the dies and projecting below the face of the dies and adapted to rest upon the body of the plate below the printing surface on which the dies are to operate to insure equal distribution to the several dies of the force applied to the anvil.
4. A die holder for the purpose described; comprising a body having a recess for the reception of a plurality of rows of removable and changeable dies and a centrally disposed

anvil opposite the recess; a removable bal-
 ancer inserted in the recess with the dies
 and projecting below the face of the dies
 and adapted to rest upon the body of the
 5 plate below the printing surface on which
 the dies are to operate to insure equal distri-
 bution to the several dies of the force applied
 to the anvil; and means for securing the
 dies and balancer in said recess.

10 5. A holder for dies for punching racing
 and baseball results in stereotype plates;
 comprising a narrow and low body having a
 longitudinal recess in its underside adapted

to receive a plurality of removable and
 changeable dies, and a short centrally dis-
 posed anvil on its upper side having a small
 contact surface for receiving blows of a ham- 70
 mer; a removable balancer inserted in the re-
 cess with the dies and projecting below the
 face of the dies and adapted to rest upon the
 body of the plate below the printing surface
 on which the dies are to operate to insure
 equal distribution to the several dies of the 75
 force applied to the anvil; and means for
 securing the dies and balancer in said recess.

HARRY B. WARD.

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55	120
60	125
65	130