No. 719,296. PATENTED JAN. 27, 1903.

H. B. BARTLETT.

LINOTYPE MACHINE.

APPLICATION FILED JUNE 21, 1902.

NO MODEL.

Fig. 1

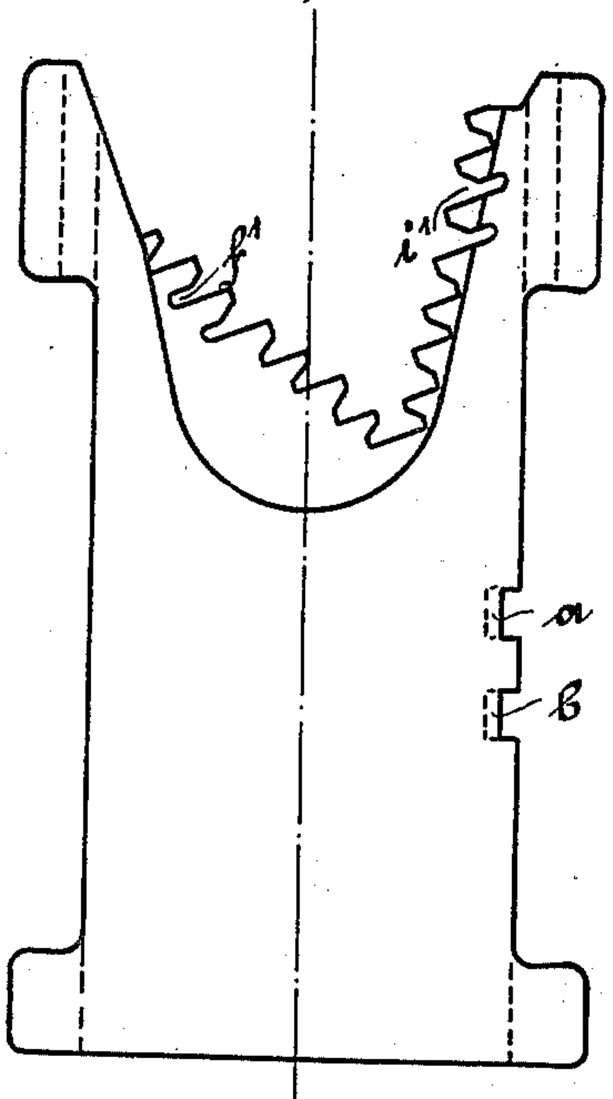


Fig. 2

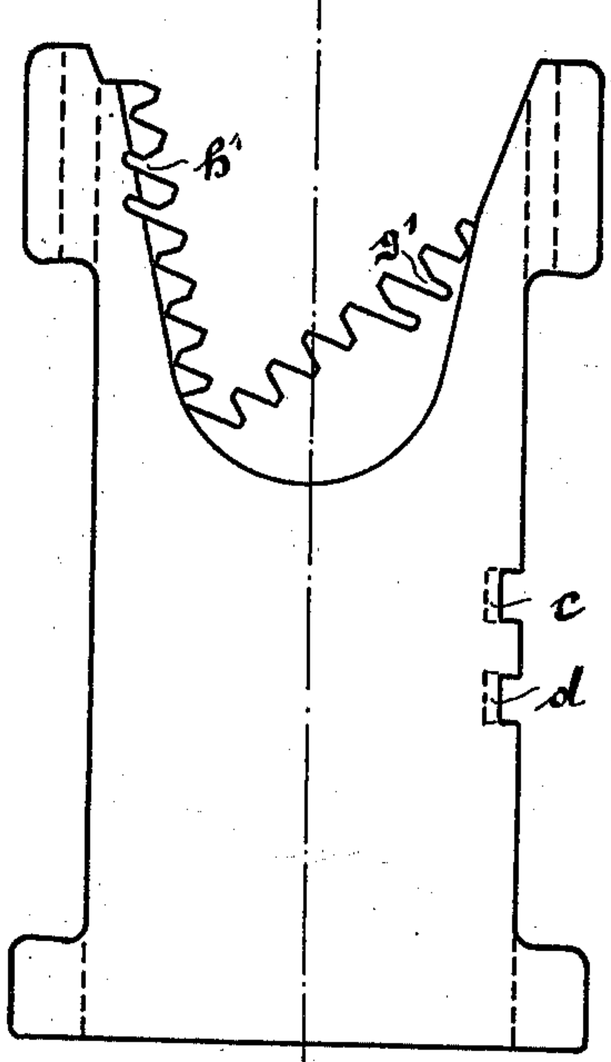


Fig. 3

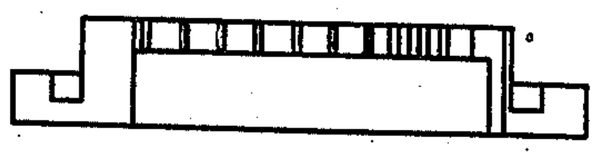


Fig. 4

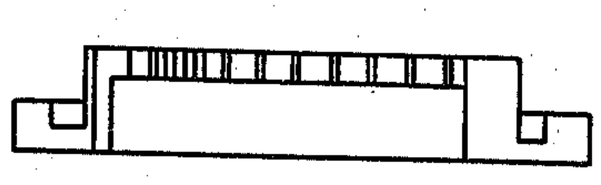


Fig. 5

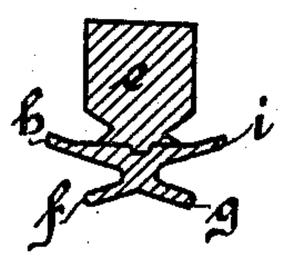


Fig. 6

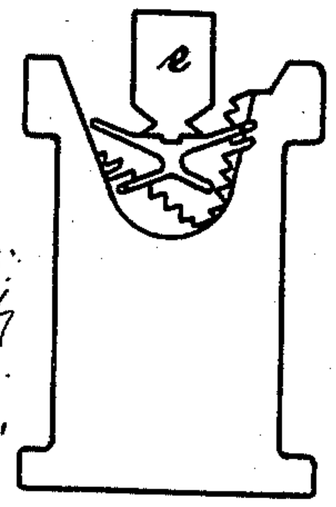
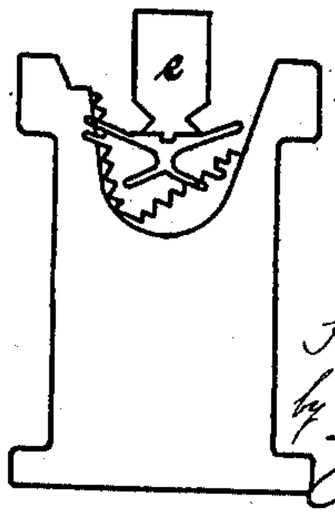


Fig. 7



Witnesses:
Arthur L. Bryant
L. I. Jones.

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by J. W. Watson
Atty

UNITED STATES PATENT OFFICE.

HENRY B. BARTLETT, OF BERLIN, GERMANY.

LINOTYPE-MACHINE.

SPECIFICATION forming part of Letters Patent No. 719,296, dated January 27, 1903.

Application filed June 21, 1902. Serial No. 112,589. (No model.)

To all whom it may concern:

Be it known that I, HENRY B. BARTLETT, a citizen of the United States, residing at Berlin, Germany, have invented certain new and useful Improvements in Linotype-Machines, of which the following is a specification.

The present invention has for its object to increase the magazine capacity of the linotype-machine with the least possible complication or increase of mechanism, the purpose being to provide a larger number and variety of matrices than has heretofore been commonly used in such machines.

To this end the invention consists, primarily, in an improvement in the matrices by means of which double the number of matrices may be dropped in the magazines from the distributing-bar now in use.

The invention also consists in an improvement in the elevator for carrying the matrices to the distributer, whereby the several varieties of matrices may be raised to the distributing-box in the ordinary manner.

In the accompanying drawings, Figure 1 represents in side elevation one form of matrix which I employ, having its V-shaped notch inclined to the right and eccentric to the middle line of the matrix. Fig. 2 is a similar view of a matrix reversely notched—that is, having its V-notch inclined to the left. Figs. 3 and 4 are plan views of matrices shown in Figs. 1 and 2, respectively. Fig. 5 is a sectional view through the elevator. Fig. 6 is an end view of the elevator-bar, showing a right-hand matrix suspended thereon; and Fig. 7 is a similar view showing a left-hand matrix suspended on the elevator.

Referring to the drawings, it will be seen that the matrices illustrated differ from ordinary matrices only in the shape and location of the V-notches which effect their distribution. The matrix shown in Fig. 1 has two indentations or matrix impressions *a b*, and that shown in Fig. 2 has two similar impressions *c d*. The matrices are provided with the usual ears at their upper and lower ends.

The matrix shown in Fig. 1 has a serrated V-shaped notch the axis of which inclines to the right, while that shown in Fig. 2 has a similar notch having its axis inclined to the left downwardly. The V-notches of these matrices may be described as unsymmetrical to the middle lines of the matrices. In the operation of distribution both kinds of matrices ride on the ordinary V-section distributing-rail, the right-hand matrices being inclined to the front and the left-hand matrices inclined to the rear of the machine. This method of distribution is fully illustrated in my companion application, filed June 21, 1902, Serial No. 112,590. In said application the means for distributing these matrices simultaneously from a single rail into two magazines is illustrated and described.

As the V-notches of the matrices do not register when the matrices are alined, as for casting, it becomes necessary to adapt the elevator, commonly called the "second elevator," and the matrices so that they will mutually interlock while the latter are in line. To this end I provide the elevator with four ribs *f g h i*, and I provide the right-hand matrices with opposing notches *f' i'* and the left-hand matrices with opposing notches *g' h'* for engagement with said ribs, as shown in Figs. 6 and 7. It will be evident that an elevator so constructed will pick up the line of matrices without disarranging them and deliver them in a solid uniform line to the distributer. The manner of distributing these matrices is fully described in the above-mentioned companion application.

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

1. A matrix having its distributing-teeth arranged in a V-shaped notch, the axis of said notch being inclined to the middle line of the matrix.

2. The combination of two series of matrices adapted for simultaneous use in a linotype-machine, the matrices of one series having their distributing-teeth arranged unsymmetrically to the middle line of said matrices and the matrices of the other series having their distributing-teeth arranged unsymmetrically to the middle line of said matrices but differing in location from the distributing-teeth of the first series.

3. The combination of two series of matrices adapted for simultaneous use in a linotype-machine, the matrices of both series having serrated V-shaped notches, the axes of the V-shaped notches of one series inclining

to the right and the axes of the V-notches of the other series inclining to the left of the middle line of the matrices, for the purpose set forth.

4. In a linotype-machine, the combination with two series of matrices having their distributing-teeth unsymmetrically arranged, the teeth of the matrices being located differently in the different series, of an elevator adapted to suspend the matrices of both series while said matrices are alined.

5. In a linotype-machine, the combination with two series of matrices provided with serrated V-shaped distributing-notches, the axes of the V-shaped notches of the respective series being inclined in opposite directions, of an elevator provided with two pairs of ribs adapted to engage the teeth of both varieties of matrices while said matrices are alined, for the purpose set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

HENRY B. BARTLETT.

Witnesses:

HENRY HASPER,

WOLDEMAR HAUPT.