

No. 855,236.

PATENTED MAY 28, 1907.

J. S. DUNCAN & J. B. HALL.

QUADRAT.

APPLICATION FILED DEC. 12, 1905.

Fig. 1.

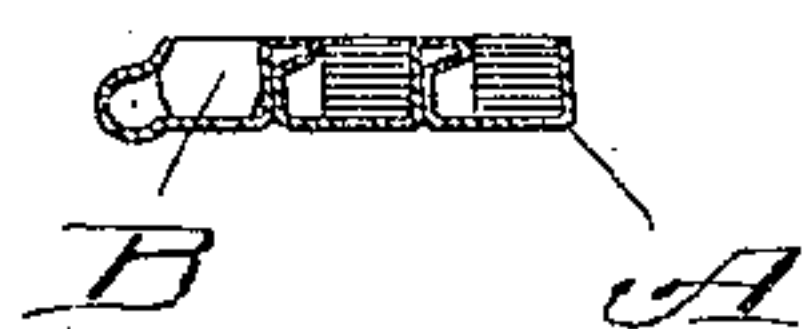


Fig. 2.

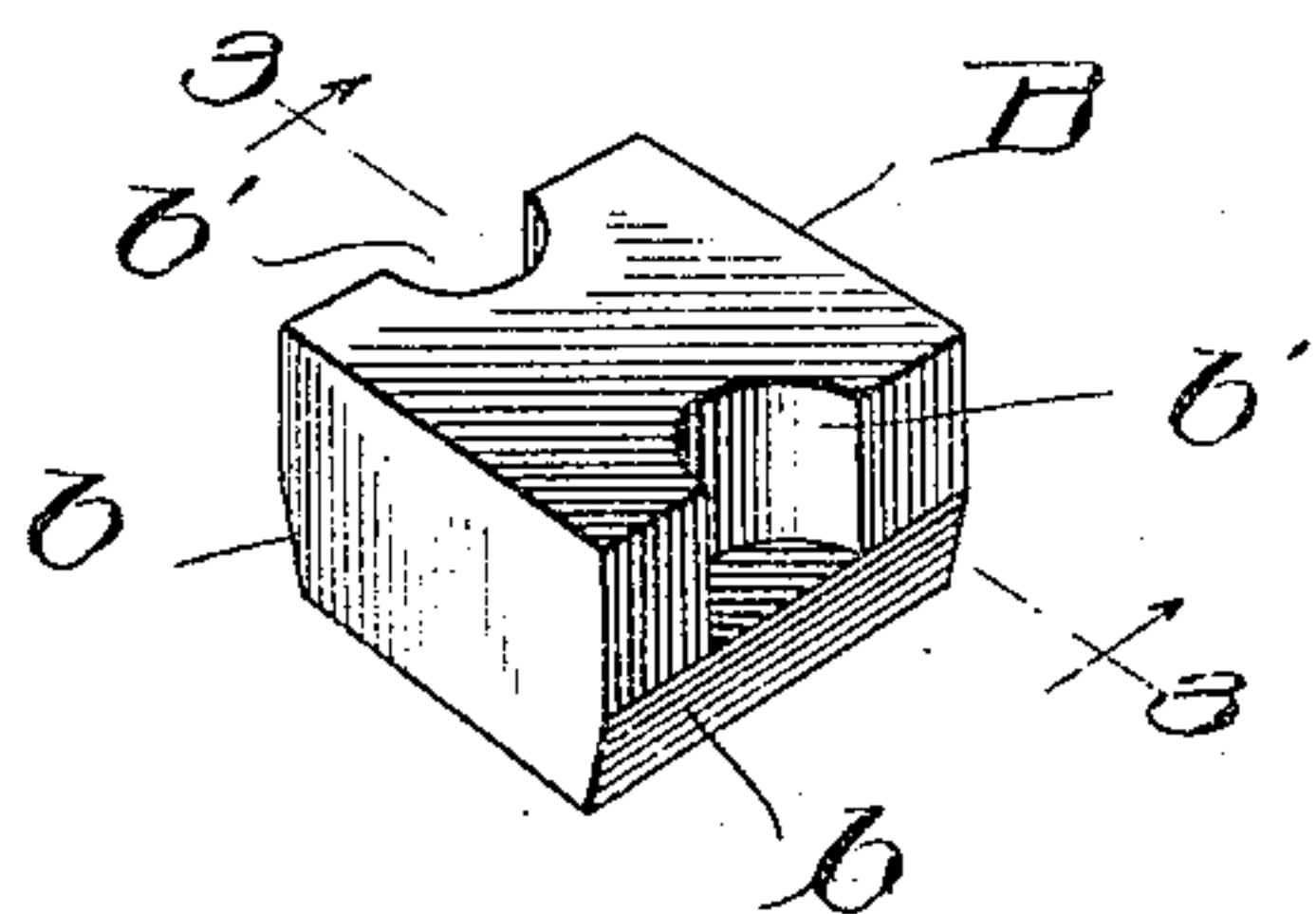


Fig. 3.

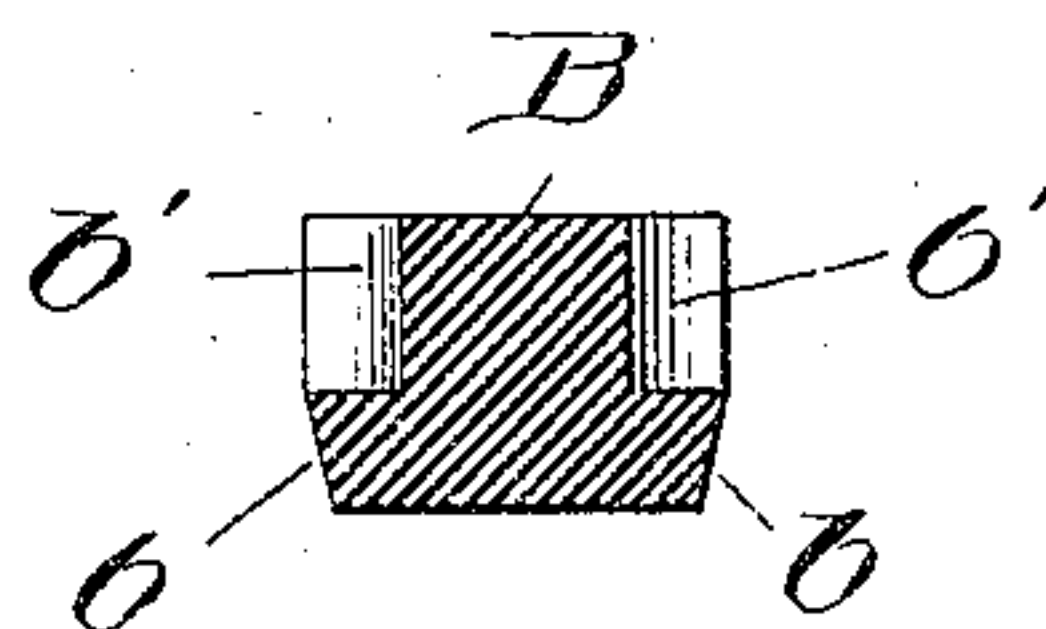
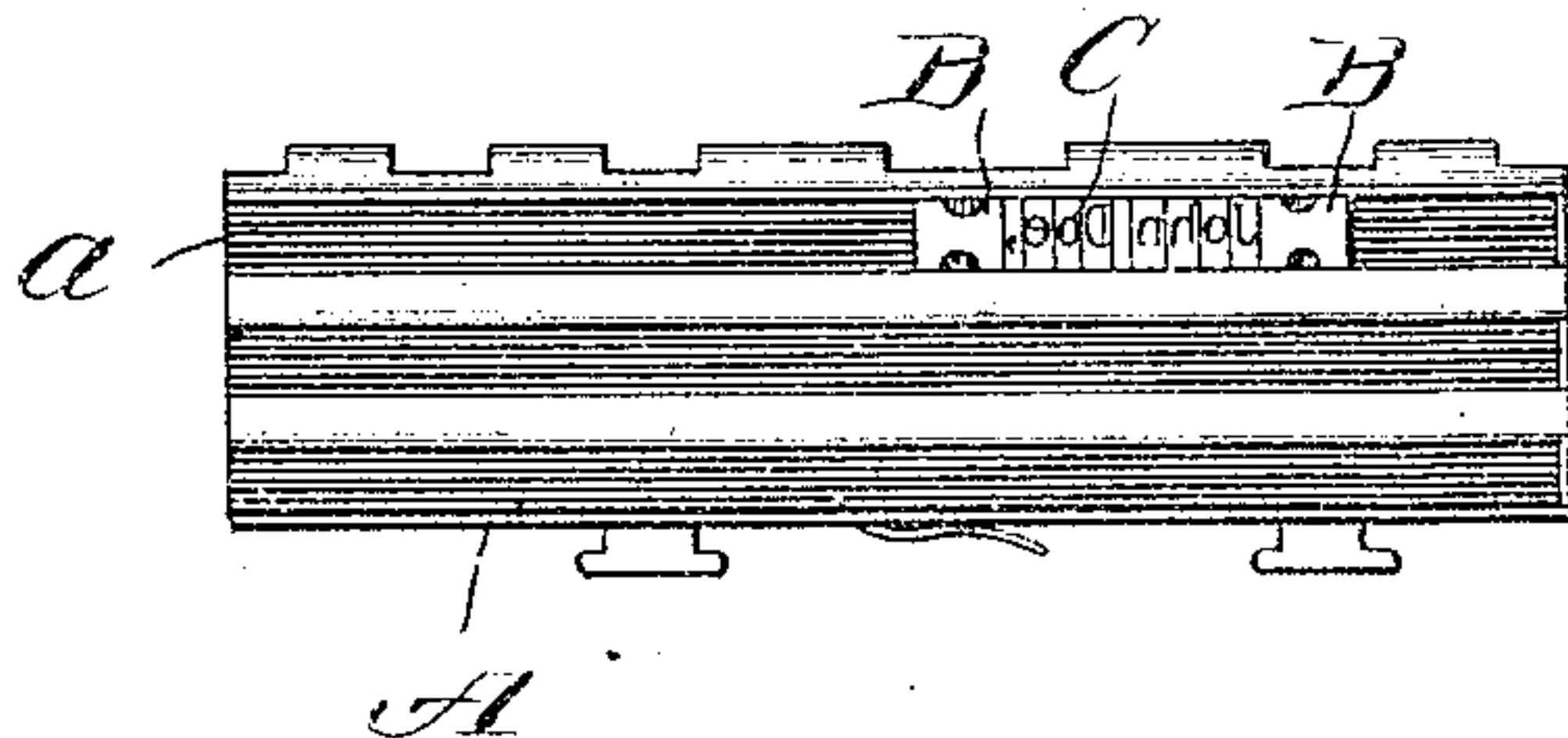


Fig. 4.



Witnesses:

H. S. Carter
M. A. Kiddie

Inventors

Joseph S. Duncan and
John B. Hall,
By J. M. Bell, atty

UNITED STATES PATENT OFFICE.

JOSEPH S. DUNCAN AND JOHN B. HALL, OF CHICAGO, ILLINOIS, ASSIGNORS
TO ADDRESSOGRAPH COMPANY, A CORPORATION OF ILLINOIS.

QUADRAT.

No. 855,236.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed December 12, 1905. Serial No. 291,441.

To all whom it may concern:

Be it known that we, JOSEPH S. DUNCAN and JOHN B. HALL, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Quadrats, of which the following is a specification.

The object of our invention is to provide a quadrat which can be easily inserted and removed from the type groove of a type holder.

In the accompanying drawings illustrating one embodiment of the invention Figure 1 is a transverse sectional view of a type holder showing our improved quadrat in place in the first type groove. Fig. 2 is an enlarged perspective view of the quadrat. Fig. 3 is a sectional view on the line 3—3 of Fig. 2. Fig. 4 is a plan view of a type holder showing our quadrat at each end of a line of type.

We have illustrated the invention in connection with a type holder A having three type grooves *a* and adapted to be linked with other type holders of the same character in the form of a chain for addressing machines, but this is simply illustrative of one use of the invention and it will be so understood.

We prefer to make the quadrat of rubber or other elastic material and in the general form of a rectangular block B. The sides of the block are beveled at *b* adjacent to their lower edges and recesses *b'* are provided in said sides, preferably, at the upper part thereof and extending through the top of the block.

The diameter of the quadrat through its thickest part, from side to side thereof, is greater than the narrowest part of the type groove and more or less pressure is required to force the quadrat into the groove through the top thereof. The quadrat is made of greater width than the type C so that it will stick fast in the groove and hold the type in fixed position. The beveled edges *b* are provided to facilitate the insertion of the quadrat in the type groove.

The recesses are provided to enable the quadrat to be readily removed with tweezers, the points of which are inserted in the recesses, and these recesses are made of suffi-

cient width and depth to provide always for the insertion of the points of the tweezers. The advantage of having these recesses will be readily understood for under ordinary circumstances it is practically impossible to insert the points of the tweezers between the walls of the type groove and an ordinary quadrat having plain sides owing to the fact, as heretofore mentioned, that the quadrat is forced into the groove under pressure, but these recesses will always enable the use of tweezers for removing the quadrat and thus greatly facilitate the operation. The quadrat may be inserted by hand or by the use of tweezers as desired. In addition to facilitating the insertion and removal of the quadrat, the recesses also enable the use of a quadrat considerably wider from side to side at its greatest diameter than is generally used because these recesses allow the rubber at each side thereof to spread toward the recesses as well as toward the ends of the quadrat, and such a quadrat will stick tightly in place in the groove.

We prefer to bevel the lower edges of both sides of the block as this is believed to produce the best result, but for some purposes it may be sufficient to bevel only one side. We also prefer to locate the recesses opposite each other in the sides of the block, as shown, for this is a simple and convenient way of making the quadrat but it is not absolutely essential that this particular arrangement should be followed.

Having thus fully described my invention, what we claim and desire to secure by Letters Patent is:—

A rubber quadrat having its sides beveled to make the quadrat narrower at its bottom than at its top and provided with recesses in its sides extending from said bevel through the top of the type, the quadrat being bodily wider above the bevel than the type and the type groove to receive the type and quadrat.

JOSEPH S. DUNCAN.

JOHN B. HALL.

Witnesses:

WM. O. BELT,
M. A. KIDDIE.