

No. 620,137.

Patented Feb. 28, 1899.

W. C. HULL.
TYPE FOR TYPE WRITING MACHINES.

(Application filed July 1, 1898.)

(No Model.)

FIG. 1.

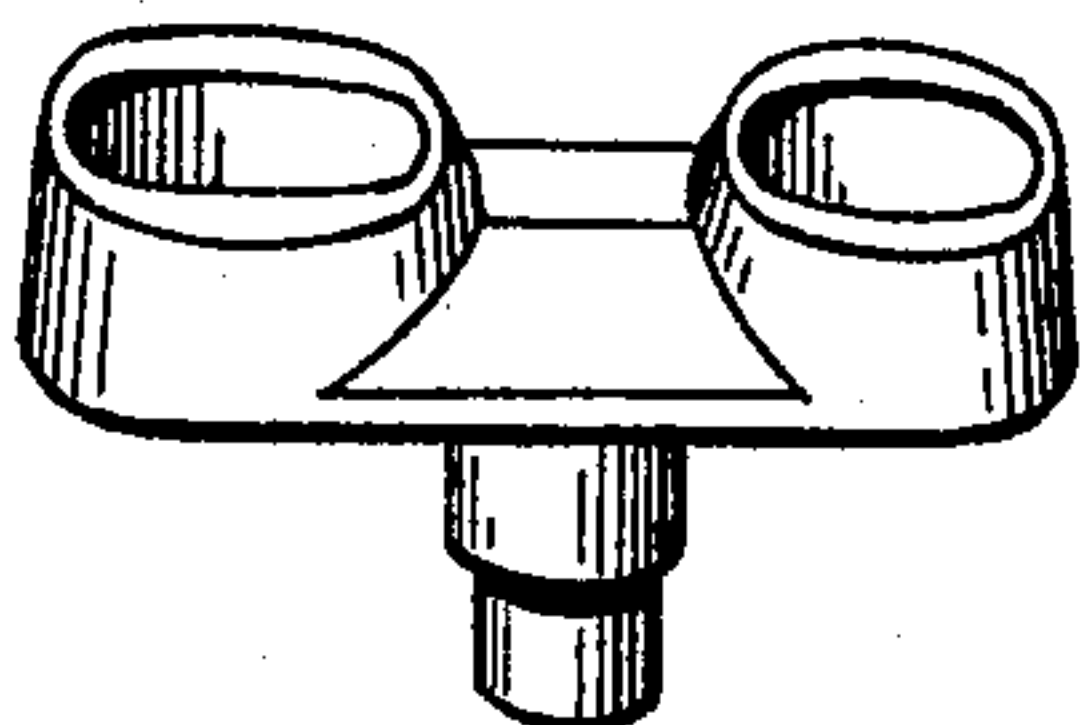


FIG. 2.

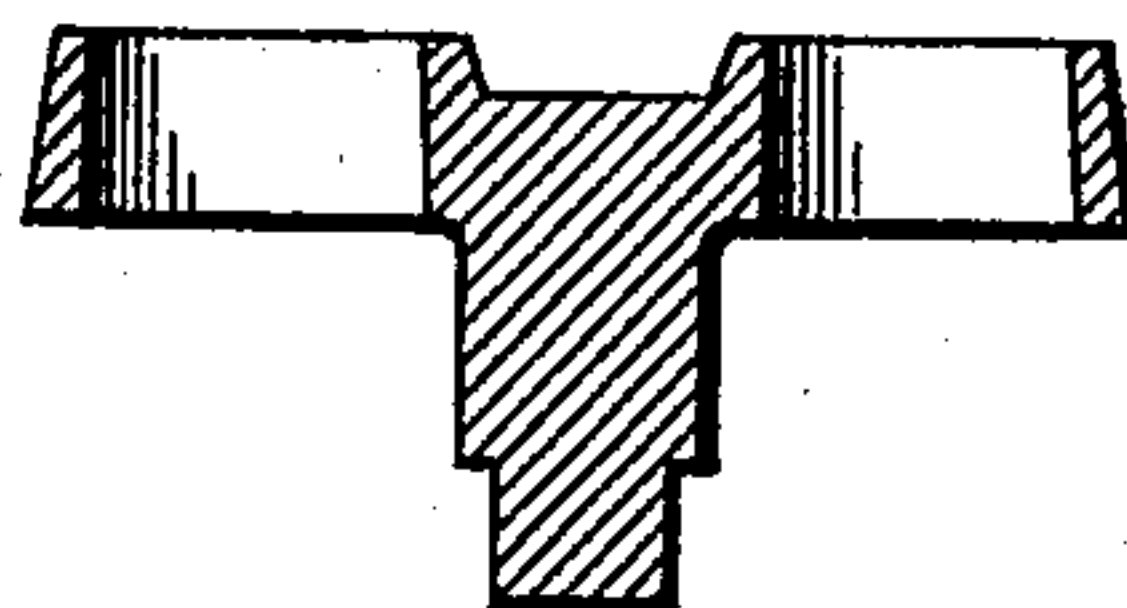


FIG. 3.

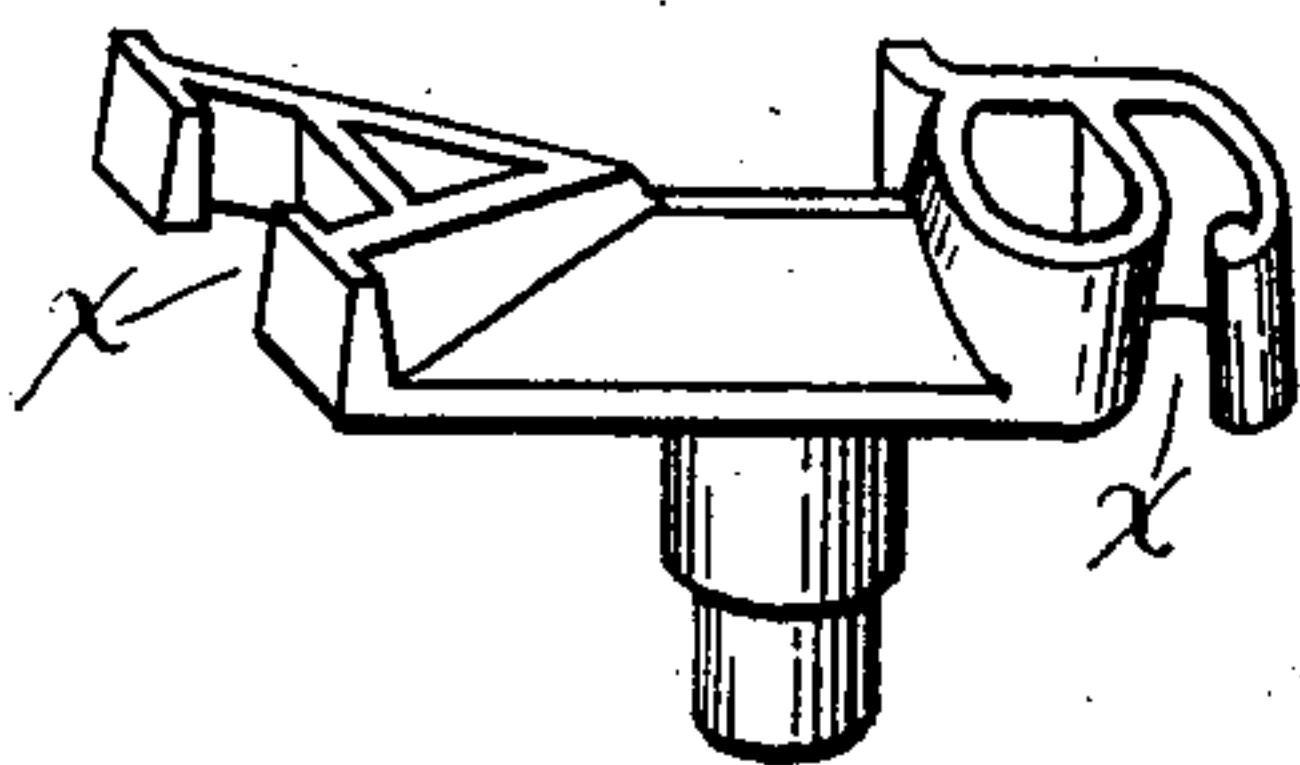


FIG. 4.

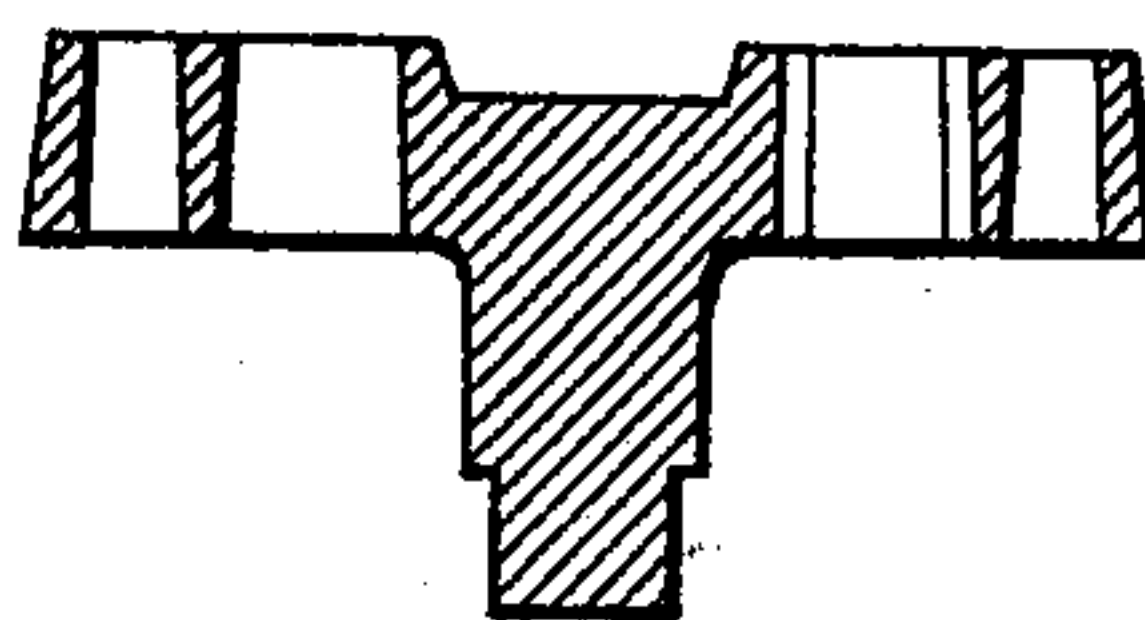


FIG. 5.

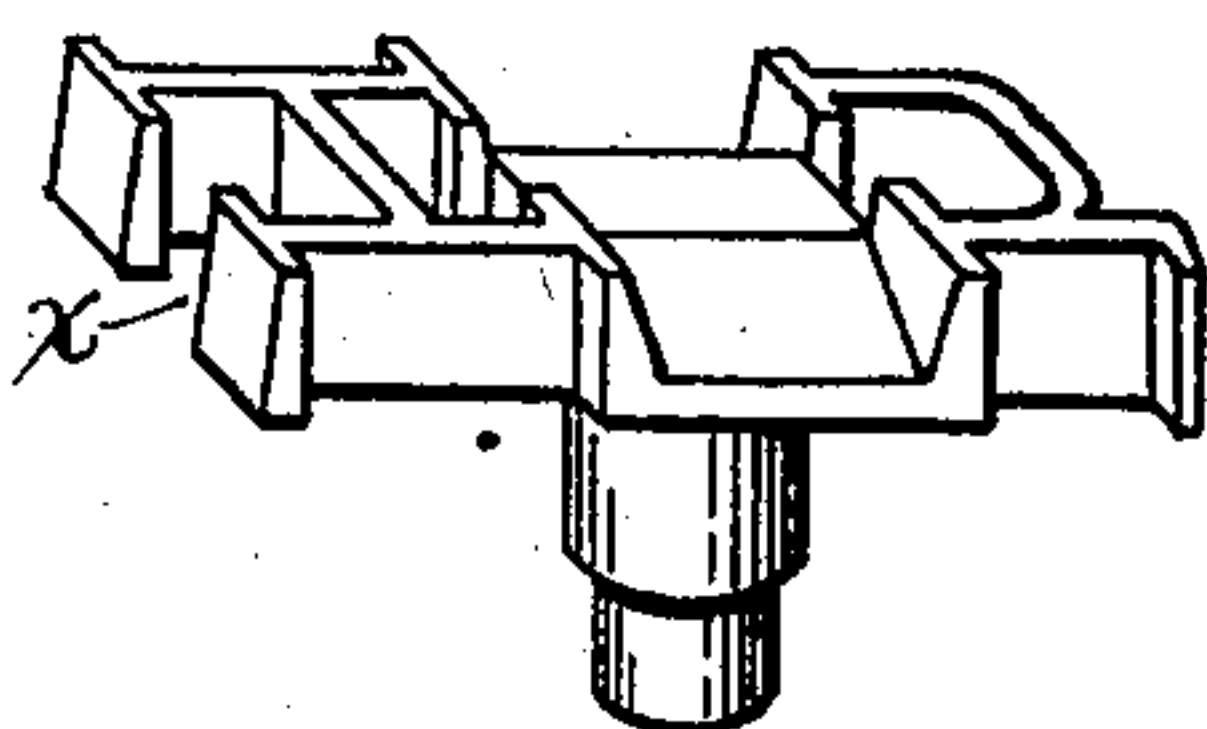


FIG. 6.

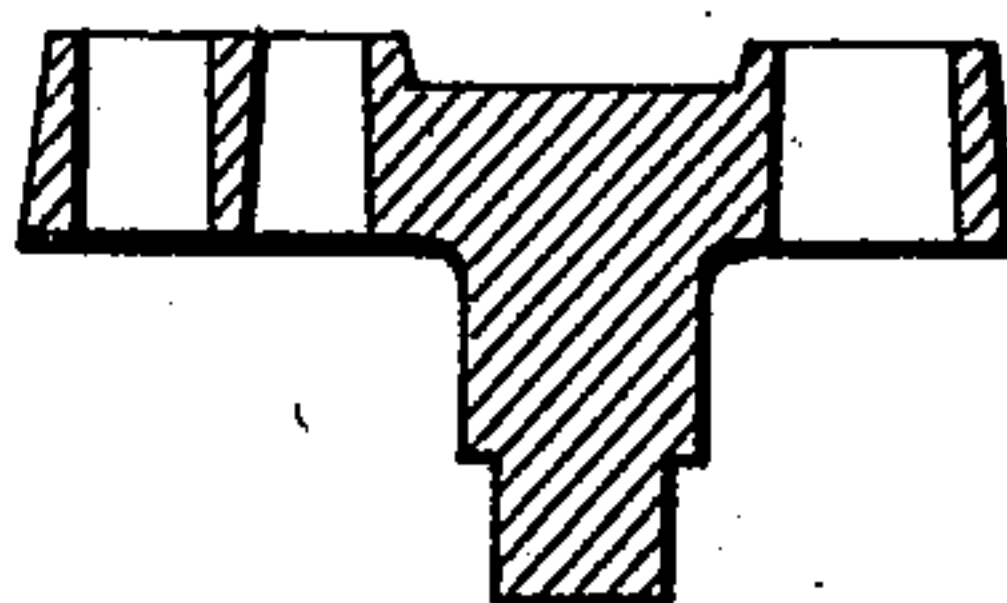


FIG. 7.

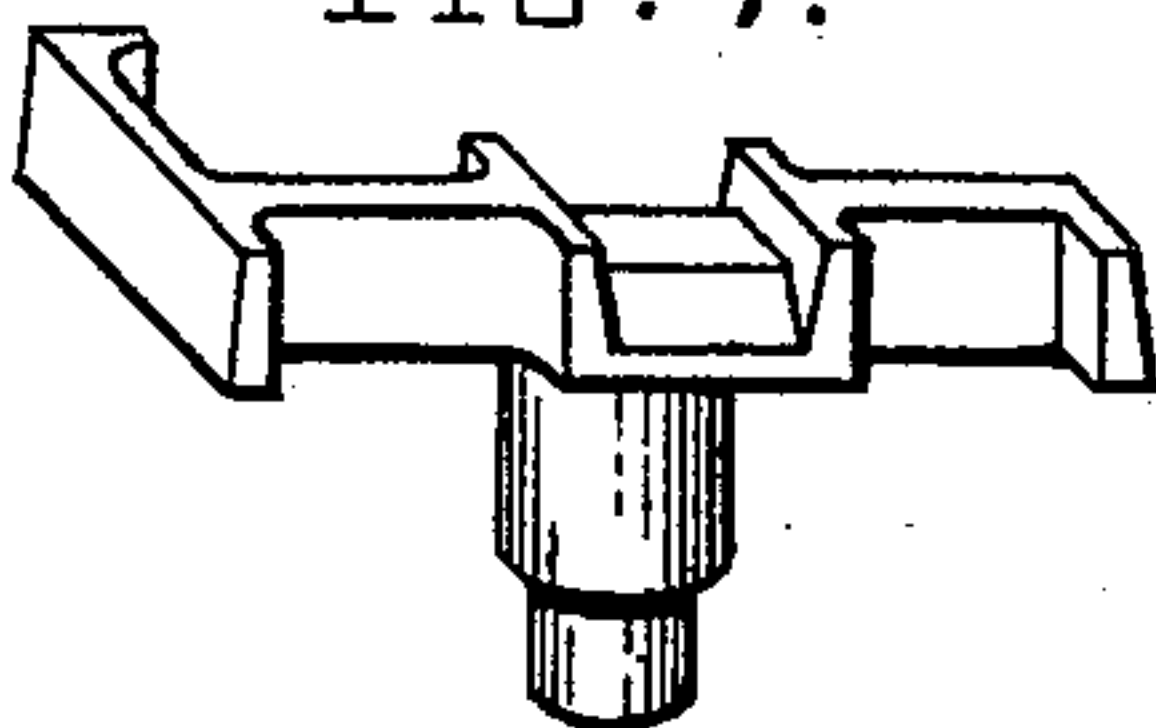
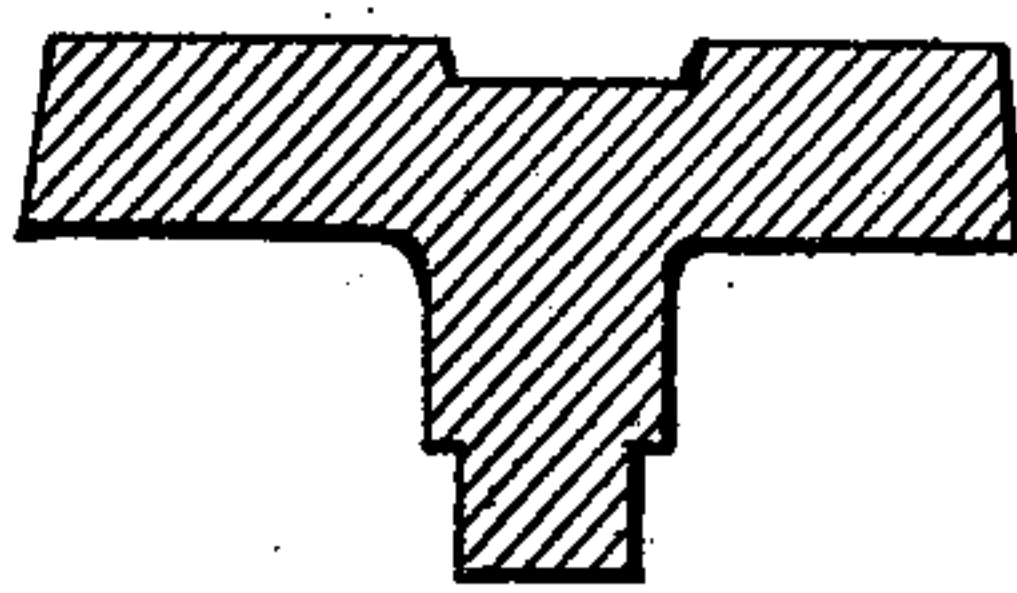


FIG. 8.



WITNESSES:

David C. Walter
L. E. Brown.

INVENTOR:

William Cary Hull
By [Signature] Atty.

UNITED STATES PATENT OFFICE.

WILLIAM CARY HULL, OF TRAVERSE CITY, MICHIGAN.

TYPE FOR TYPE-WRITING MACHINES.

SPECIFICATION forming part of Letters Patent No. 620,137, dated February 28, 1899.

Application filed July 1, 1898. Serial No. 684,911. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM CARY HULL, a citizen of the United States, residing at Traverse City, Grand Traverse county, Michigan, have invented certain new and useful Improvements in Types for Type-Writing Machines, of which the following is a specification.

In that class of types for type-writing machines in which the letters and other characters are formed in relief upon a flat surface, thus forming a shoulder or ledge or shallow inclosed space at the base of the letter, a familiar difficulty encountered is the rapid accumulation of lint from the paper and ribbon and gummy substance from the ink, which in a short time causes the latter to blur and renders it necessary to frequently clean the type by brushing or otherwise.

My invention relates to and its object is to provide means for overcoming the difficulty here pointed out, and more particularly to so construct type for type-writing machines that the shoulder or ledge above referred to shall be dispensed with and so that type will free themselves from adhering lint, gum, and the like. I attain this object by means of the construction hereinafter described, and shown and illustrated in the accompanying drawings, made part hereof, in which, for illustration, I have shown type-pieces formed with upper and lower case letters, although it is obvious that my invention is applicable to type-pieces carrying one, two, or more characters.

I have shown each of the type-pieces provided with a lug or pin which may in the well-known manner be rigidly socketed in the extremity of its type-bar; but it will be understood that many equivalent provisions can be made for securing the type-pieces in place.

In the drawings I have illustrated only a few letters, as from these examples the treatment of the whole alphabet and other characters used in type-writing machines will be obvious.

Figure 1 is a perspective view of a type-piece carrying the letter O; Fig. 2, the same in central vertical section; Fig. 3, a type-piece bearing the letter A; Fig. 4, the same in central vertical section; Fig. 5, the letter H; Fig. 6, the same in central vertical sec-

tion; Fig. 7, the letter L; Fig. 8, the same in central vertical section.

As will be seen from the drawings, the body of each of the type-pieces from the margin of the face of the type backward is beveled or chamfered in such manner as to entirely omit the shoulder or ledge formed by raising the type at a right angle from a plane surface. In letters in which a space is surrounded or inclosed, as in o, a, b, d, e, g, p, &c., such space is cut through the type from face to back, the opening being preferably enlarged backwardly from the face of the type. In other letters in which a space is only partly inclosed, as in a, c, u, m, n, s, y, &c., the spaces extend through the letter, as above described; but the body of the letter is cut away or laterally recessed or indented at the points where the lines of the letters are broken or do not meet, as at x in Figs. 3 and 5. In letters consisting in the main of straight or curved lines, such as i, t, f, l, &c., each letter is beveled from the margins of its face backward, as illustrated in Figs. 7 and 8.

In forming each character it will be understood, of course, that in beveling the margins of the letters enough metal will be left to give the required stability and body to the letter and to furnish means for connecting the type to its type-bar.

It will be seen that my invention provides a type in which there is no shallow inclosed or partly-inclosed spaces to fill up or become clogged, thus spoiling the type-impression. It will also be seen that the absence of a ledge or shoulder around the outer margin of the type character prevents the accumulation of lint, gum, &c., thus overcoming the necessity for frequent cleansing of the type.

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

A type for type-writing machines, comprising a type-piece, and one or more characters on the face of said type-piece, said characters having their inner and outer marginal edges extending at an angle from face to back of said type-piece without shoulder or ledge, substantially as and for the purpose specified.

WILLIAM CARY HULL.

In presence of—

F. J. POTTER,
L. W. TINKHAM.