

(Model.)

C. J. BAKER.

ALIGNER FOR TYPE WRITERS.

No. 263,459.

Patented Aug. 29, 1882.

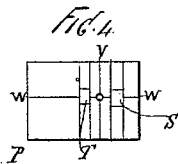
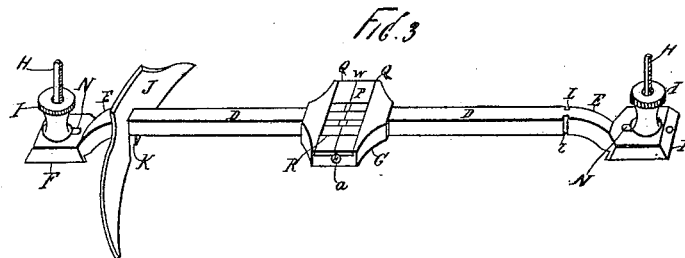
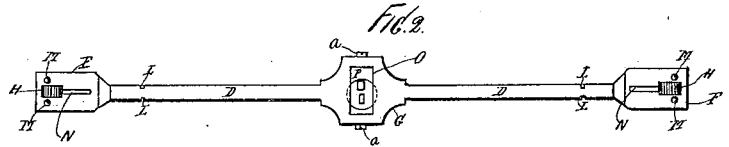
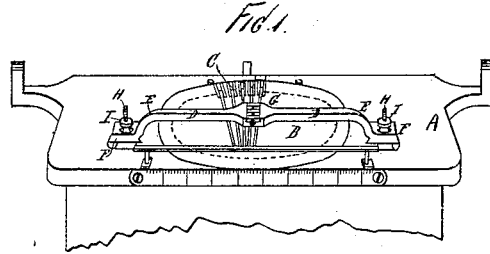
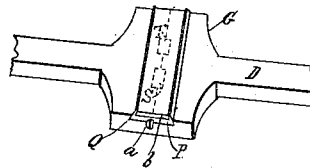
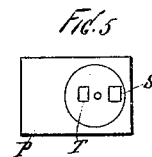


Fig. 6.



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UNITED STATES PATENT OFFICE.

CHARLES J. BAKER, OF TOPEKA, KANSAS.

ALIGNER FOR TYPE-WRITERS.

SPECIFICATION forming part of Letters Patent No. 263,459, dated August 29, 1882.

Application filed April 17, 1882. (Model.)

To all whom it may concern:

Be it known that I, CHARLES J. BAKER, of Topeka, in the county of Shawnee and State of Kansas, have invented a new and Improved
5 Aligner for Type-Writers, of which the following is a full, clear, and exact description.

This invention consists of a gage constructed and arranged for temporary attachment to the top of a type-writer, so as to occupy a position
10 in such relation to the point where the type take effect on the paper in operation that the type may be successively raised up to said point and accurately and uniformly aligned in adjusting them, the said gage being essentially a bar
15 of metal bridging over the type-basket and resting on the type-writer case, with an opening at the type-center, in which slides for the type, also having openings and being suitably cross-lined, are fitted to adjust the type by, all as herein-
20 after more fully described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

25 Figure 1 is a perspective view of part of the top of a type-writer, showing the said improved aligner attached. Fig. 2 is a plan view of the aligner inverted. Fig. 3 is a perspective view of the aligner in upright position, and with a gage
30 employed for setting it. Fig. 4 is a plan view of one of the slides employed in the bar and having the lines by which to align the type for adjustment. Fig. 5 is a plan view of the same inverted. Fig. 6 is a perspective view of a section
35 of the aligner, showing the transparent cover to the slide sometimes used.

A represents the top of the type-writer case, B the type-basket, and C some of the type-levers. Over the basket is placed the aligner,
40 consisting of a small light bar of brass or other approved metal, with arched ends E, broad feet F, and straight part D between the ends, with a broadened center, G, said bar being temporarily attached to the top A of the type-
45 writer by hook-headed bolts H and thumb-nuts I, and having stud-points M in the bottom of the feet to aid in properly placing it when applying it for use, and to register it for subsequent use.

50 J represents a gage with which to set the bar, said gage consisting of a small plate curved sidewise to correspond with the margin of the

type-basket, or thereabout, when resting at its lower edge on the top A, and having a vertical notch, K, square to the lower edge, the said
55 notch being not quite as wide as the bar, and the latter having a notch, L, each side for guides to the edges of the notched plate J. The said plate J being placed on the said aligner, as shown, will test the vertical ad-
60 justment of the said aligner and aid in correcting it if inaccurate. At the same time the adjustment of the aligner parallel with the carriage-rod of the machine (not shown) will be
65 made with the aid of any suitable measure or straight rod or bar-gage by measuring the distance from one to the other at each end of the said aligner. When the positions for the
70 feet F of the aligner are thus correctly ascertained in the first place the points M will be pressed into the surface of the top A of the case of the type-writer for a register by which
75 to subsequently apply the aligner from time to time, and the hook-headed bolts H will be shifted along the slots N in feet F, suitably for
hooking through slots in the top A and under said top, as is common in such fastenings, to
80 be secured by nuts I to clamp the attachment fast. The gage J will be useful to test the aligner from time to time, when subsequently
85 applied, for certainty as to its accuracy; but if the aligner be permanently fixed the gage J should not be required.

The center G has an opening, O, through it, over which the little gage-plate slides P are
85 inserted in a wide dovetail groove, Q, against the ledge R, or extending entirely across center piece, G, and being secured by screws a, one of which may have part of its head cut away, as in
90 Fig. 6, to allow the slide to be entered and removed without taking out said screw. These slides P have small holes S and T through them, also the cross center lines, V and W, Fig. 4, the openings being for the type to enter, and the
95 center lines being to align them from. Two or more of these plates P will be used, according to the different types used, as "single-space" and "double-space" type.

In using this device each type-lever, as it is brought up, if it does not register with the
100 hole, is bent into position until it does register therewith. In the operation of the machine the aligner is removed, and is only replaced when, by the wear of the machine, the type

do not properly register with the printing-point.

In some cases I propose to employ a transparent cover, *b*, Fig. 6, of glass or other approved material, to the opening or openings of these plates *P*, said cover being fitted in a dovetail groove in the top of the slide, or otherwise suitably attached, said cover being used for the purpose of preventing the smaller letters from coming through.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with a type-writer, of the aligner-bar, substantially as herein described, and a gage-plate, *P*, as set forth.

2. The aligner-bar *D E F G* and clamp-screws *H I*, in combination with a type-writer, substantially as specified.

3. The aligner-bar *D E F G*, clamp-screws *H I*, and stud-points *M*, in combination with a type-writer, substantially as specified.

4. The combination of a transparent cover, *b*, with the adjusting-slide *P* of the aligner for type-writers, substantially as herein shown and described.

5. The combination, in an aligner for type-writers, of an aligner-bar, *D E F G*, adjusting-gage slide *P*, and binding-screws *a*, substantially as described.

6. The combination of gage *J*, aligner-bar *D E F G*, and clamp-screws *H I* with a type-writer, substantially as specified.

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Witnesses:

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