

(Model.)

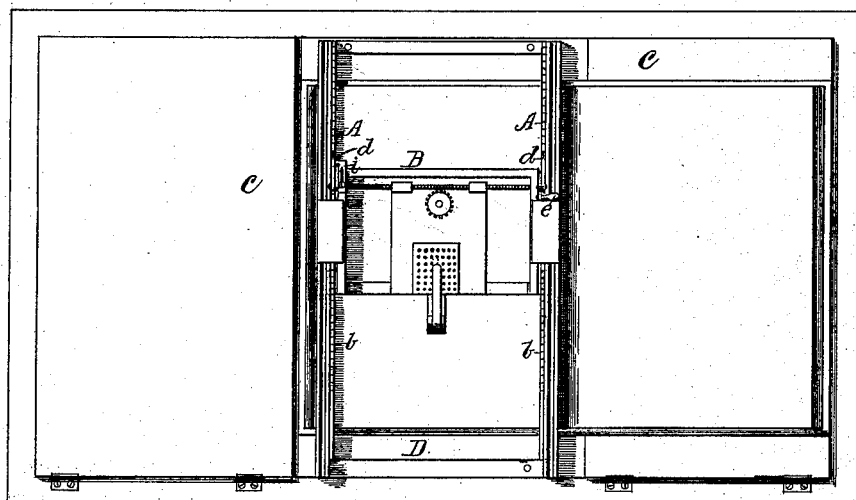
2 Sheets—Sheet 1.

F. A. REMLEY.  
TYPE WRITING MACHINE.

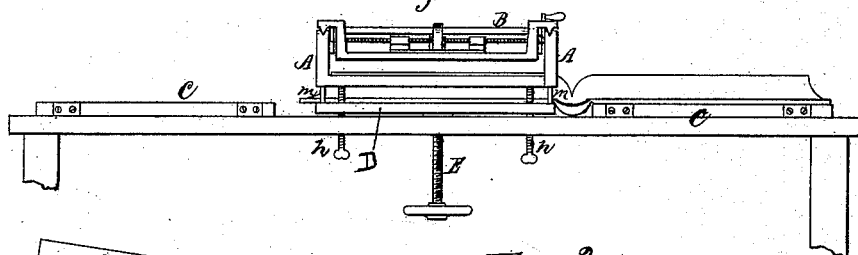
No. 385,008.

Patented June 26, 1888.

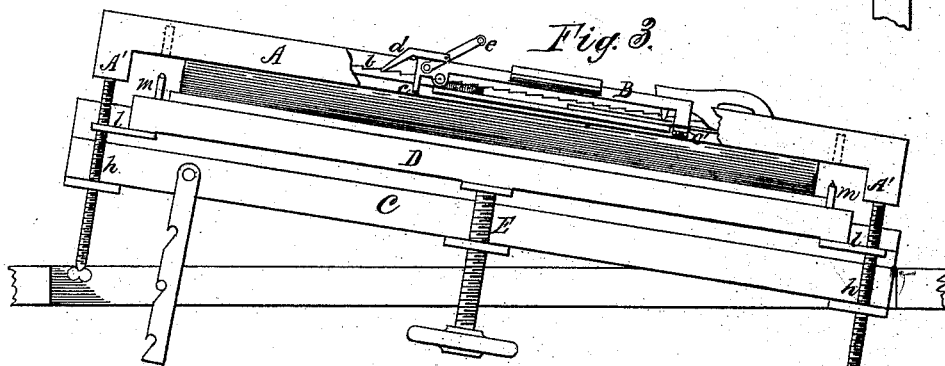
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



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*Inventor.*  
*Fred A. Remley.*  
*By Justus M. Johnson.*  
*His Atty.*

(Model.)

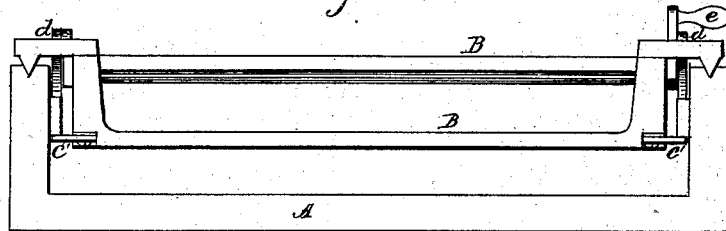
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F. A. REMLEY.  
TYPE WRITING MACHINE.

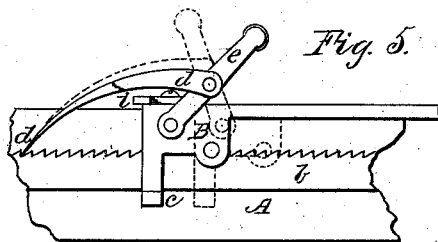
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*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

FRED A. REMLEY, OF IOWA CITY, IOWA.

## TYPE-WRITING MACHINE.

SPECIFICATION forming part of Letters Patent No. 385,008, dated June 26, 1888.

Application filed August 21, 1886. Serial No. 211,473. (Model.)

*To all whom it may concern:*

Be it known that I, FRED A. REMLEY, a citizen of the United States, residing at Iowa City, in the county of Johnson and State of Iowa, have  
5 invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

The object of my invention is to adapt type-writers to writing on paper which, as in the  
10 case of large books, must of necessity remain stationary during the operation; and the invention consists in the construction, combination, and arrangement of parts to this end, as hereinafter set forth and claimed.

15 In the accompanying drawings, forming a part of this specification, Figure 1 represents a plan view of the invention as applied to the pages of a book; Fig. 2, a front elevation of the same, and Fig. 3 a sectional side elevation;  
20 Fig. 4, an enlarged sectional front elevation of the frame and carriage, showing the detail of the mounting of the carriage; and Fig. 5, a sectional side elevation of the upper end of the carriage and the interior of the frame, showing the detail of the line-spacing device.

Similar letters of reference indicate corresponding parts.

In the application of a writing-machine to the purpose specified above it is necessary  
30 that the impression of the types should be from above, rather than from below. In practice I use for this purpose, and in connection with my invention hereinafter described, that style of writing apparatus found in the machine  
35 known as the "Hall Type-Writer," the construction of which is well known and need not be particularly described.

Referring to the drawings, A is a metallic frame, somewhat longer and as wide or wider  
40 than the page to which it is to be applied. The sides of this frame are made perfectly parallel, and upon them is mounted a carriage, B, constituting a part of the writing apparatus. For this purpose one or both of the longer sides  
45 of the frame is grooved at the top, and a corresponding tongue is formed on the under side of that part of the carriage engaging therewith. Along the inner sides of the frame, and  
50 lengthwise thereof, run parallel racks *b b*, both edges of which retreat from the edges of the frame, of which they form a part. The lower edges of the racks are made plane, and serve,

in connection with gibs *c c'* at the lower side of the carriage, as a guide for the latter and to hold the same in position. The gibs *c'* are  
55 preferably made adjustable by means of a screw, and may be set so as to prevent by their friction any movement of the carriage downward while moving laterally along a line. Little friction is required for this purpose, how-  
60 ever, the tendency in operating the machine being to impel the carriage in the opposite direction. The downward movement of the carriage from line to line is made by means of a pair of dogs, *d d*, attached to cranks mounted  
65 at the opposite ends of a rock-shaft extending across the upper end of the carriage. The dogs engage with the racks by their own gravity, and the tilting of the rock-shaft by means of a small hand-crank, *e*, moves the carriage  
70 downward. To move it in the opposite direction, the dogs are disengaged and the carriage is pushed upward by the hand. The length of the stroke of these dogs, and the consequent distance between the lines, is regulated by a  
75 stop, *f*, having a lateral projection engaging with the crank at the end of the rock-shaft. The stop has a longitudinal slot, and is adjusted by means of a screw securing it to the carriage. The attachment of the writing device to the  
80 carriage and the operation of the same are essentially the same as in the type-writer already referred to, and need not be specially described.

The frame A is attached to a table or bed, C, by means of fixed posts, or by screws *h h h h* at  
85 each corner, and by these screws the height of the frame may be adjusted to correspond with the relative thickness of any book or packet of paper upon which the machine is to operate, and also to any inequalities in the thickness  
90 thereof. Between this table and the frame is a plate, D, preferably of wood, mounted loosely on the screws last referred to by means of lugs *l l l l*, and connected with the table by means of a hand-screw, E. Upon this plate is placed  
95 the book or packet, and by screwing the same up tightly the paper is pressed against the plane under side of the frame A, and the page to be written upon is held flat and smooth.

The shoulders *A' A'* of the frame may serve  
100 as guides in the adjustment of the book to the frame; or the plate or frame may be provided with fixed or adjustable pins *m m* for that purpose. The table should be about three times

as long as the width of the machine or one page of the book, so as to afford a support at each side for the half of the book not in use. It is also desirable that these wings of the table should  
5 be on the same level as the plate D when the book is opened at the middle, and provision is accordingly made for the plate to be depressed below the surface of these parts of the table, as well as its elevation above them, as appears by  
10 reference to Fig. 3. This table may also be hinged at its front edge to its support, and tilted for convenience in writing, as shown.

Thus constructed, the invention admits of the application to books and the like, particularly  
15 voluminous records, the advantages incident to the type-writer materially lightening and facilitating such clerical work.

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

1. In a type-writer for books or packets, the combination of the frame A, having parallel sides, their upper surface forming ways for the carriage, their bottoms adapted to rest upon  
25 and hold the paper in position, and being provided with racks *bb*, substantially as shown and described, the carriage B, having dogs *d d*, engaging with the racks, and gibs *c c'* opposite thereto, and a type-writing device, substantially as specified, adapted to print on the up-

per surface of said paper, substantially as and for the purpose set forth.

2. In a type-writer for books or packets, the combination of the frame A, having parallel  
35 ways adapted to rest upon and hold the page in position, a carriage mounted upon said ways and provided with a transversely-moving type-writing apparatus adapted to print on the upper surface of the paper, and a clamp, D E, adapted to press the book or packet tightly  
40 against the bottom of the frame, substantially as and for the purpose specified.

3. In a type-writer for books or packets, the combination of the carriage-supporting frame A, mounted on suitable supports, *h h h*, and  
45 the plate D, having screw E to press the book or packet tightly and smoothly against the under side of the frame A, substantially as and for the purpose set forth.

4. In a type-writer of the kind specified, the  
50 combination of the frame A, clamping device D E, and supports C, hinged to the table, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRED A. REMLEY.

Witnesses:

JOE A. EDWARDS,  
L. ROBINSON.