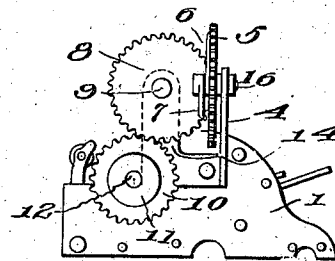
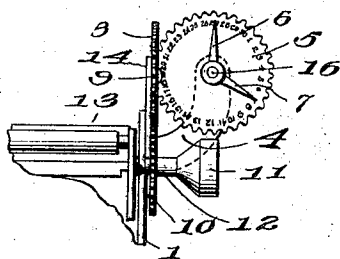
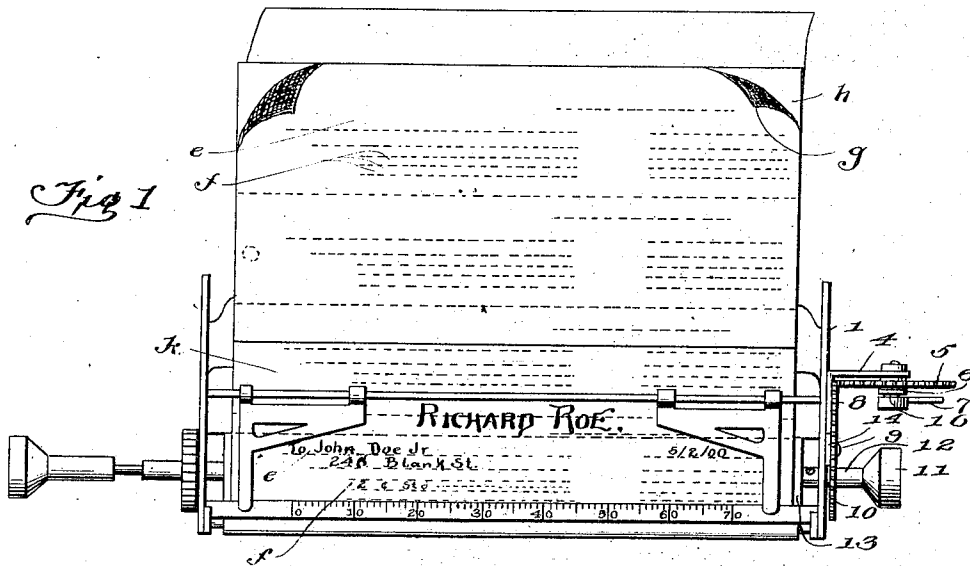


H. B. YOUNG.
BILLING ATTACHMENT FOR TYPE WRITERS.
APPLICATION FILED JUNE 10, 1908.

933,942.

Patented Sept. 14, 1909.



WITNESSES

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HARRY B. YOUNG, OF CLEVELAND, OHIO, ASSIGNOR TO THE OLIVER TYPEWRITER COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

BILLING ATTACHMENT FOR TYPE-WRITERS.

933,942.

Specification of Letters Patent. Patented Sept. 14, 1909.

Application filed June 10, 1908. Serial No. 437,758.

To all whom it may concern:

Be it known that I, HARRY B. YOUNG, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Billing Attachments for Type-Writers, of which the following is a specification.

This invention is a billing attachment for typewriters, and has for its object to provide an attachment particularly adapted for use when a series of bills is to be copied onto a single larger sheet.

The device comprises an indicator which after one bill is copied on the sheet will show where another bill may be started. This will prevent loss of space on the copy sheet incident to spacing the originals farther apart than necessary, and will also avoid running the matter of different bills together on the copy sheet. The matter of the several bills will be regularly spaced apart at equal distances, irrespective of the number of items appearing on any particular bill.

The invention will be understood from the following description and the accompanying drawings.

In the drawings, Figure 1 is a top view of part of a typewriter carriage, with the invention applied thereto. Fig. 2 is a partial front elevation. Fig. 3 is an end view.

In the drawings, the invention is shown as applied to an "Oliver" typewriter, but it may be applied to other kinds with little or no modification, and no limitation is implied with respect to the particular machine on which it may be used.

Referring specifically to the drawings, 1 indicates the end frame of the carriage, and this supports the platen 13 mounted on shaft 12 which may be turned by the knob 11. Mounted on the shaft 12, beside the frame 1, is a gear wheel 10 which meshes with a gear 8 which in turn meshes with a gear 5. The gear 8 is supported by one angle 14 of a bracket, and the gear 5 is supported by the other angle 4 thereof, the bracket being fastened to the outer side of the end frame 1, with the wheels 8 and 5 at a right angle to each other. The former is mounted on a stud 9 and the latter on a stud 16. The wheel 5 is a dial wheel, having on its front side a row of numbers corresponding to the line spaces of the machine, and by the mechanism described the dial wheel is turned

simultaneously with the platen. The stud 16 supports a movable pointer 7 and a fixed pointer 6, in front of the dial.

In use, the original bill *k*, the carbon paper *g*, and the copy sheet (which may be a sheet from a loose leaf book, for example) are inserted within the machine in the usual way. The address and other items typewritten on the bill or original are duplicated on the copy sheet *h*, the name of the buyer appearing, say, at the place *e* and the items at *f*. After one bill is completed it is pulled out and the number appearing on the disk wheel 5 at the pointer 6 is reversed back to the pointer 7 by turning the knob 11, the latter pointer having been set a distance from the former equal to the length of the bill head. When the platen is so reversed the sheet *h* and the carbon *g* are turned back accordingly, and a new bill form is inserted, as shown in Fig. 1 and turned up to the end of the heading of the bill, and then typewritten. The bill head thus overlaps the matter copied from the former bill and space of the bill head is thus saved. The pointer 7 is set according to the length of the bill head, and when once set it will not have to be changed unless a new length of bill is used. If desired, two pointers 7 can be used, for two sizes of bill heads.

The device will be found very useful for copying on one sheet matter appearing on several bill heads or letter heads, and it will save time and danger of mistakes or running different matter together in such work.

I claim:

1. An attachment for typewriters, comprising a dial wheel mounted on the carriage frame and having a series of marks corresponding to the line spaces, and geared to the platen, and pointers for the dial, one pointer being fixed with respect to the dial, and the other being settable with respect thereto and remaining at set position without rotation with the dial as the latter turns.

2. An attachment for typewriters, comprising a bracket projecting from the end frame of the carriage, a dial rotatably mounted on said bracket and geared to the platen shaft, and fixed and movable pointers for the dial, the movement of the latter being independent of the rotation of the platen shaft.

3. An attachment for typewriters, comprising an angular bracket one arm of which

is fixed to the end frame of the typewriter carriage and the other arm of which projects outwardly therefrom, a rotatable dial and pointers therefor supported by said projecting arm, one pointer being settable with respect to the dial but non-rotatable therewith, a gear wheel on the platen shaft of the typewriter, and gearing between said wheel and

the dial, comprising a gear mounted on said fixed arm. 10

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

HARRY B. YOUNG.

Witnesses:

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