

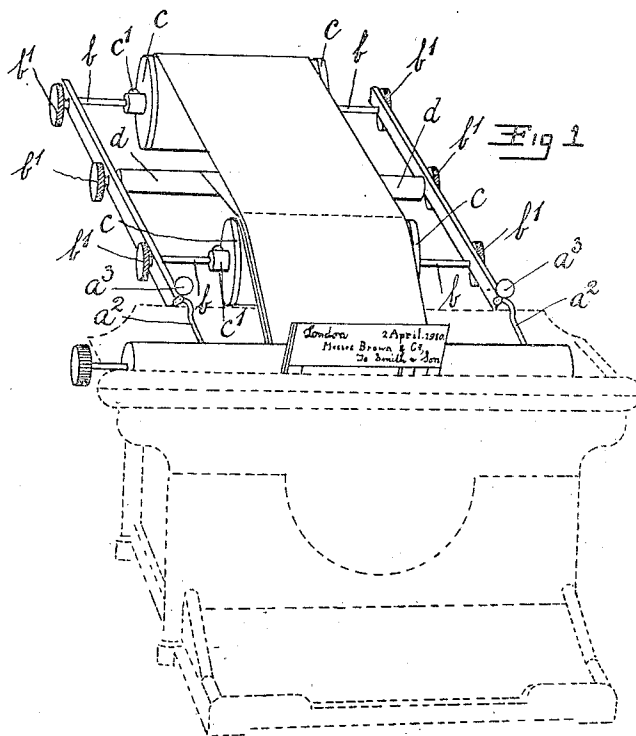
H. D. ROBINSON.
TYPE WRITER.

APPLICATION FILED APR. 16, 1910.

Patented Jan. 10, 1911.

2 SHEETS—SHEET 1.

981,116.



WITNESSES:

W. H. Derrigan
Alfred R. Anderson

INVENTOR,
HENRY DAVID ROBINSON,
by *John O'Donnell*
Attorney.

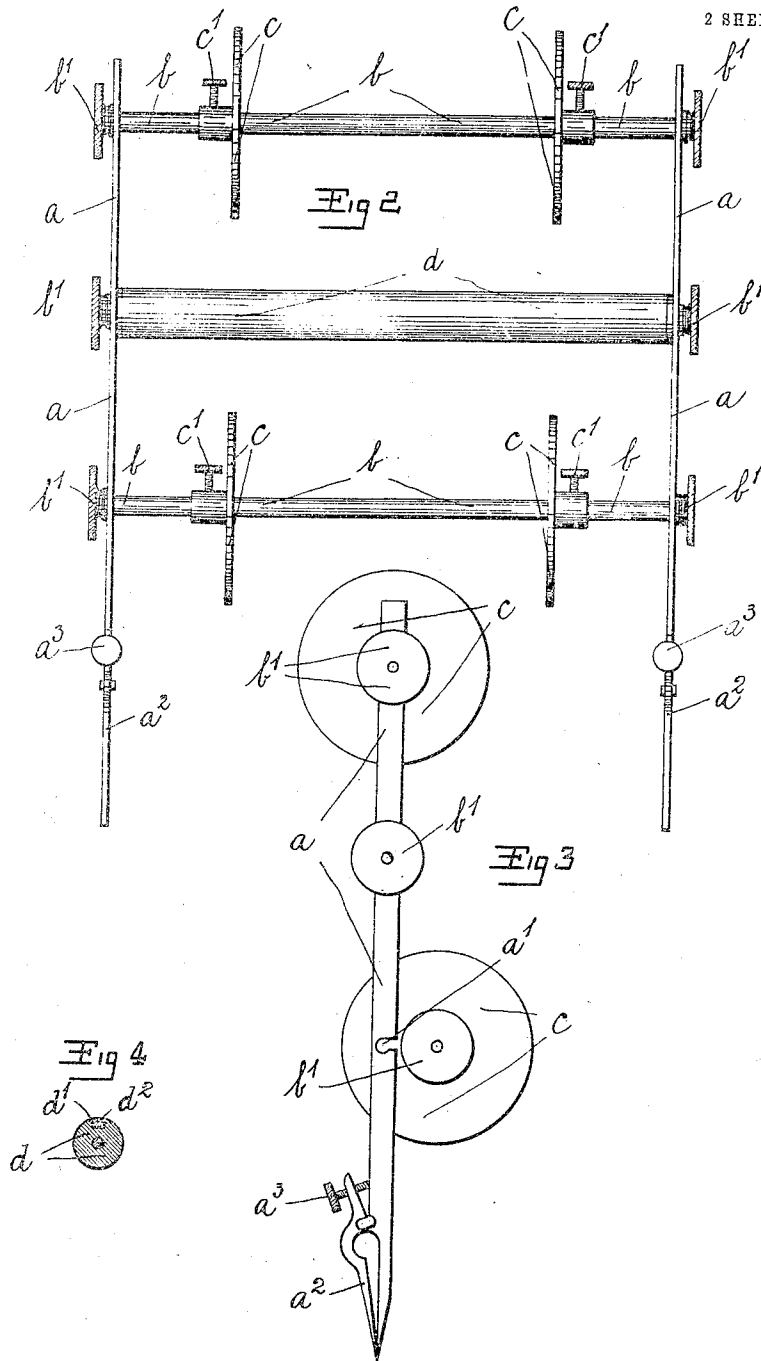
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Attorney.

UNITED STATES PATENT OFFICE.

HENRY DAVID ROBINSON, OF BIRMINGHAM, ENGLAND.

TYPE-WRITER.

981,116.

Specification of Letters Patent. Patented Jan. 10, 1911.

Application filed April 16, 1910. Serial No. 555,935.

To all whom it may concern:

Be it known that I, HENRY DAVID ROBINSON, subject of the King of Great Britain, residing at 57 Grange road, Smethwick, juxta Birmingham, England, have invented a new and useful Improvement in Type-Writers; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention refers to improvements connected with typewriters and comprises an improved attachment or part for supplying paper to the machine off a feed roller.

According to my invention I provide a drum or roller which may be built with the typewriter or may be made as an attachment to ordinary or existing machines; said drum being preferably mounted on brackets secured to the back or other convenient part of the machine.

Referring to the drawings, Figure 1. illustrates in perspective my attachment on a machine. Fig. 2. is a front elevation detached and Fig. 3. is a side view. Fig. 4. is a section of the roll for carrying the carbon paper.

In carrying my invention into practice as illustrated in the accompanying drawings, I employ two side members *a*, *a* the lower ends of which are secured to the typewriter carriage by any suitable means, either permanent or detachable, built with the machine or as an attachment to existing machines.

As illustrated the attachment is for carrying two rolls of paper, one of which is to take the original paper, the other duplicate, the third roll *d* being for a strip of carbon to come between the above said papers thereby obtaining the duplicate copy. The roll *d* is rotatable and has a longitudinal groove *d*¹ and wedge *d*² the end of the carbon paper being placed in the groove and the wedge put into same; thereby securing the carbon paper to the roll. As the paper is advanced the carbon advances and when the letter is written the paper is re-wound on to the roll. It is also obvious that only one roll may be used if necessary.

The drum preferably consists of a roller which is inserted into the center of the paper roll, said roll having a central hole for receiving the spindle *b*. The aforementioned

vertical brackets *a* preferably have suitable holes *a*¹ through which the spindle passes, the roll being between the brackets. The spindle has knurled nuts *b*¹ and is detachable. The lower ends of the brackets may be secured to the typewriter by any suitable means such as screws, or the lower ends may be forked, one forked end *a*² having a set pin *a*³, or any other suitable form of clip may be used. The paper is maintained in position on the spindle by flanges *c* which are secured by set pins *c*¹ and which may be moved to accommodate papers of various widths.

My invention is especially useful for type-writing accounts. A number of account forms are printed on a long strip of paper and divided by lines of perforation; this strip being wound onto a drum. The roll is placed at the back of the typewriter platen and obviously each time an account is typed it is only necessary to rotate the platen bring the next blank account form into position, thereby greatly saving the time of the operator.

If desired the attachment may be laterally adjustable to accommodate rollers of different widths or the roller may be made adjustable with the same object. When it is required to make a duplicate copy or copies of the writing a carbon sheet or sheets may be secured on the machine and a strip of duplicating paper arranged to pass beneath said carbon sheet.

What I claim then is:—

1. In a typewriter, or typewriter attachment, the combination of a pair of side brackets having slots therein, means for detachably securing the ends of said brackets to a typewriter carriage, a pair of transverse spindles each adapted for carrying writing paper, screwed extremities on the spindles entering said slots, nuts engaging said screwed extremities for locking said spindles to the side brackets, a pair of adjustable flanges on each of the spindles, set screws for locking said flanges in the required position, and a third spindle secured to the said side brackets adapted to carry a strip of duplicating paper in such manner that it may be fed to a machine between the two strips of writing paper, substantially as set forth.

2. In a typewriter, or typewriter attachment, the combination of a pair of side brackets, means for carrying a roll of paper on said brackets, a pivoted member at the
5 end of said brackets, and a set screw for controlling said pivoted member and whereby the brackets are detachably secured to the typewriter substantially as set forth.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY DAVID ROBINSON.

Witnesses:

HAROLD J. C. FORRESTER,
NORMAN S. BARLOW.