

J. R. MACCUE.
TYPE WRITING MACHINE.
APPLICATION FILED MAY 9, 1910.

1,015,810.

Patented Jan. 30, 1912.

2 SHEETS—SHEET 1.

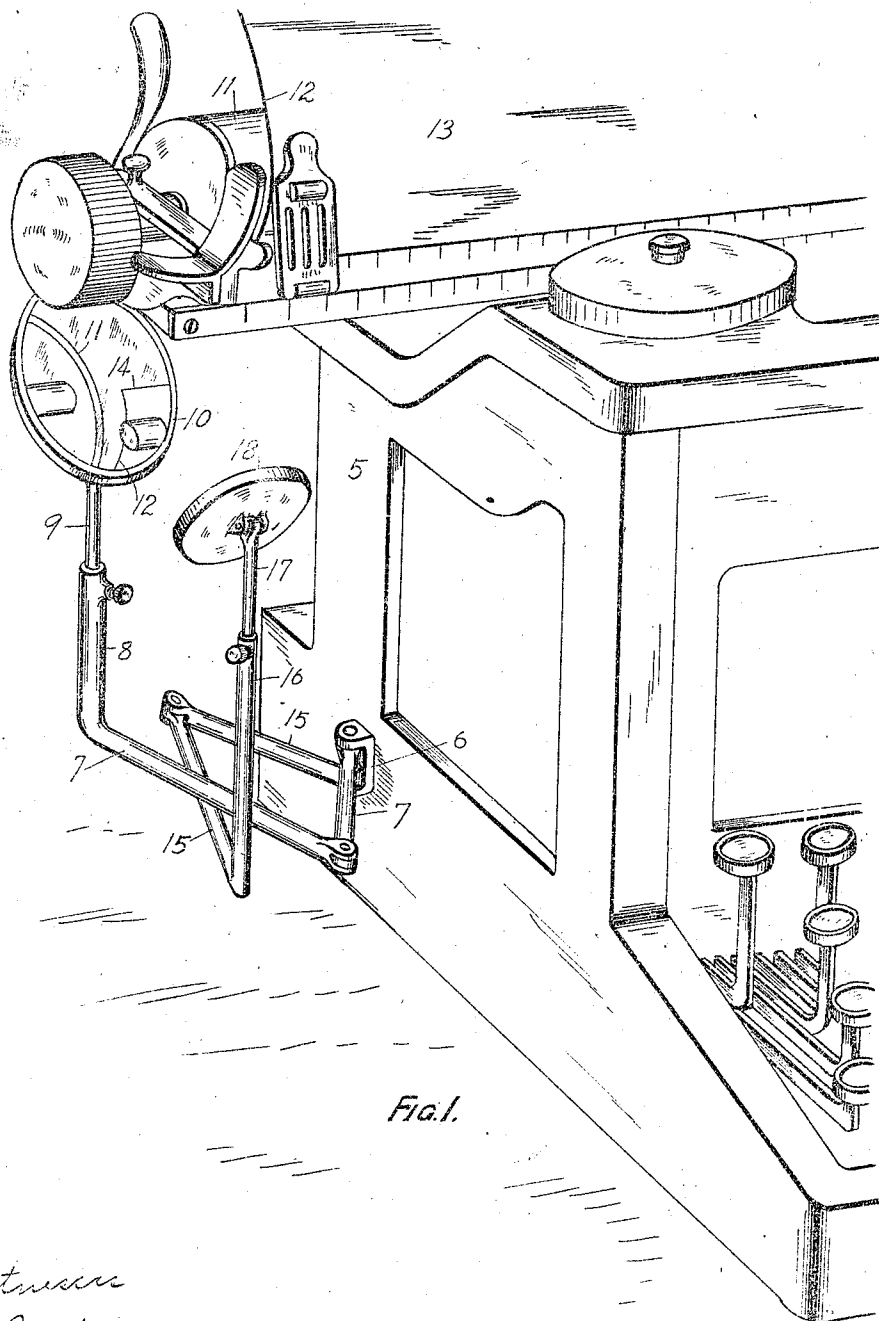


Fig. 1.

Witness
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[Signature]

Inventor:
James R. Maccue
by Charles H. Richer
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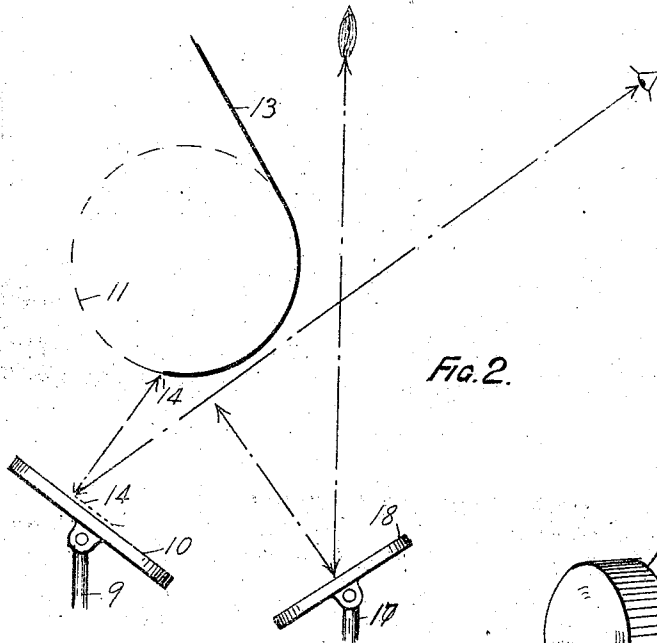


Fig. 2.

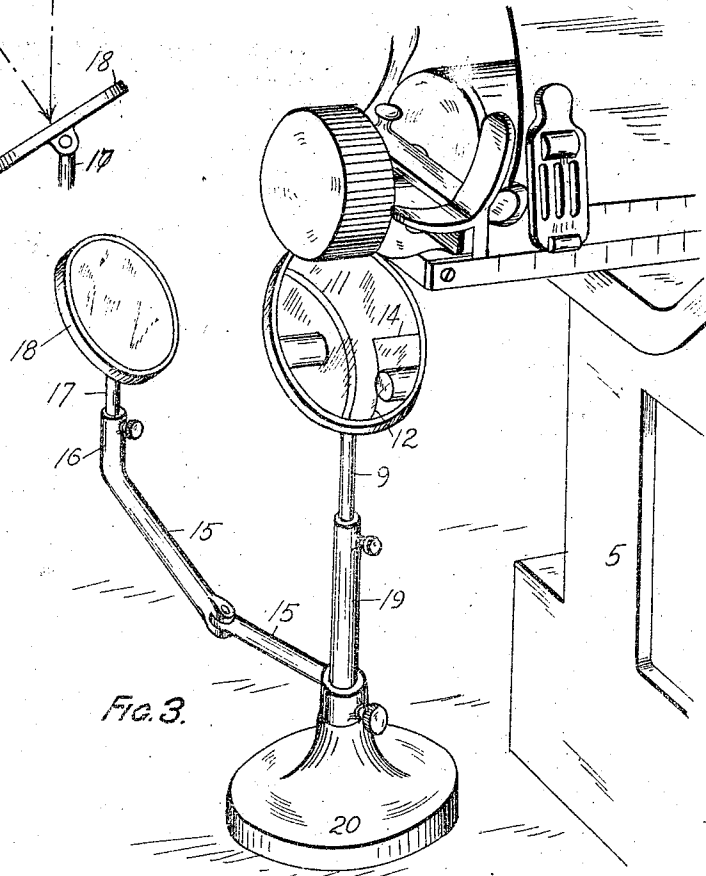


Fig. 3.

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UNITED STATES PATENT OFFICE.

JAMES ROWLEY MACCUE, OF COOMA, NEW SOUTH WALES, AUSTRALIA.

TYPE-WRITING MACHINE.

1,015,810.

Specification of Letters Patent.

Patented Jan. 30, 1912.

Application filed May 9, 1910. Serial No. 560,119.

To all whom it may concern:

Be it known that I, JAMES ROWLEY MACCUE, a subject of the King of Great Britain and Ireland, residing at Cooma, in the State of New South Wales and Commonwealth of Australia, have invented new and useful Improvements in Type-Writing Machines, of which the following is a specification.

In typewriting machines of the ordinary standard no provision is made for an operator to observe or ascertain when nearing the termination of the paper and consequently it is sometimes withdrawn before it becomes necessary or the end if not set exactly parallel to the axis of the platen will spring out while the last line on the sheet is being typed. Moreover in manifolding work it is inadvisable to type too close to the end of the paper as the underlying-carbon and copy sheets have a tendency to move upward and the last line or two on the top or "original" sheet may consequently not be reproduced on the underlying "copy" sheets.

Now the object of this invention is to provide a device whereby the termination of the paper will be optically indicated to the operator and of simple construction and readily adjustable.

The essential features of this invention comprise a mirror adapted to reflect an image to the operator's line of vision of the underneath of the platen at or near the end of its travel.

Having reference to the accompanying drawings which illustrate a practical method of carrying out this invention, Figure 1 is a perspective view of the device shown in position and attached to an ordinary standard typewriting machine and having a supplementary mirror for directing light on the under side of the platen. Fig. 2 a diagrammatic view indicating by arrows the direction of the light and vision rays. Fig. 3 a similar view to Fig. 1 showing an unattached device.

Referring to Figs. 1 and 2—to the left hand side of an ordinary typewriting machine 5 is affixed a bracket 6 having hinged

thereto a double radial arm 7 one member of which has a hollow vertical stem 8 into which telescopes an adjustable vertical rod 9. To the upper end of this vertical rod 9 is hinged a mirror 10 and so positioned underneath the platen 11 that the left hand side 12 of the paper 13 will be visible in the mirror 10 to the operator every time the platen 11 reaches the end or near the end of its travel to the left hand side of the machine. The termination of the paper 13 is indicated by the lower left hand corner 14 reflected in the mirror 10. To the bracket 6 is also hinged another similar double radial arm 15 one member of which has a vertical hollow stem 16 for the adjustable vertical rod 17 having hinged thereto a mirror 18 for the purpose of directing light underneath the platen 11 thereby rendering more distinct the image reflected in the mirror 10.

Referring to Fig. 3 the vertical rod 9 of the mirror 10 telescopes a vertical hollow stem 19 integral with the base 20. Movably affixed to this stem 19 is the double radial arm 15 carrying the mirror 18. The method of use being identical to that of the device described with reference to Figs. 1 and 2.

What I claim is:—

1. In an attachment for typewriters, in combination, a mirror for reflecting light upon the platen of the machine, a mirror for reflecting an image of the illuminated portion of the platen, a support for said mirrors and adjustable connections between said support and said mirrors.

2. In an attachment for typewriters, in combination, a mirror for reflecting light upon the under side of the platen of the machine, a mirror for reflecting an image of the under side of the platen and the work sheet thereon, a support for said mirrors and universally adjustable connections between said support and said mirrors.

JAMES ROWLEY MACCUE.

Witnesses:

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T. C. ALLEN.