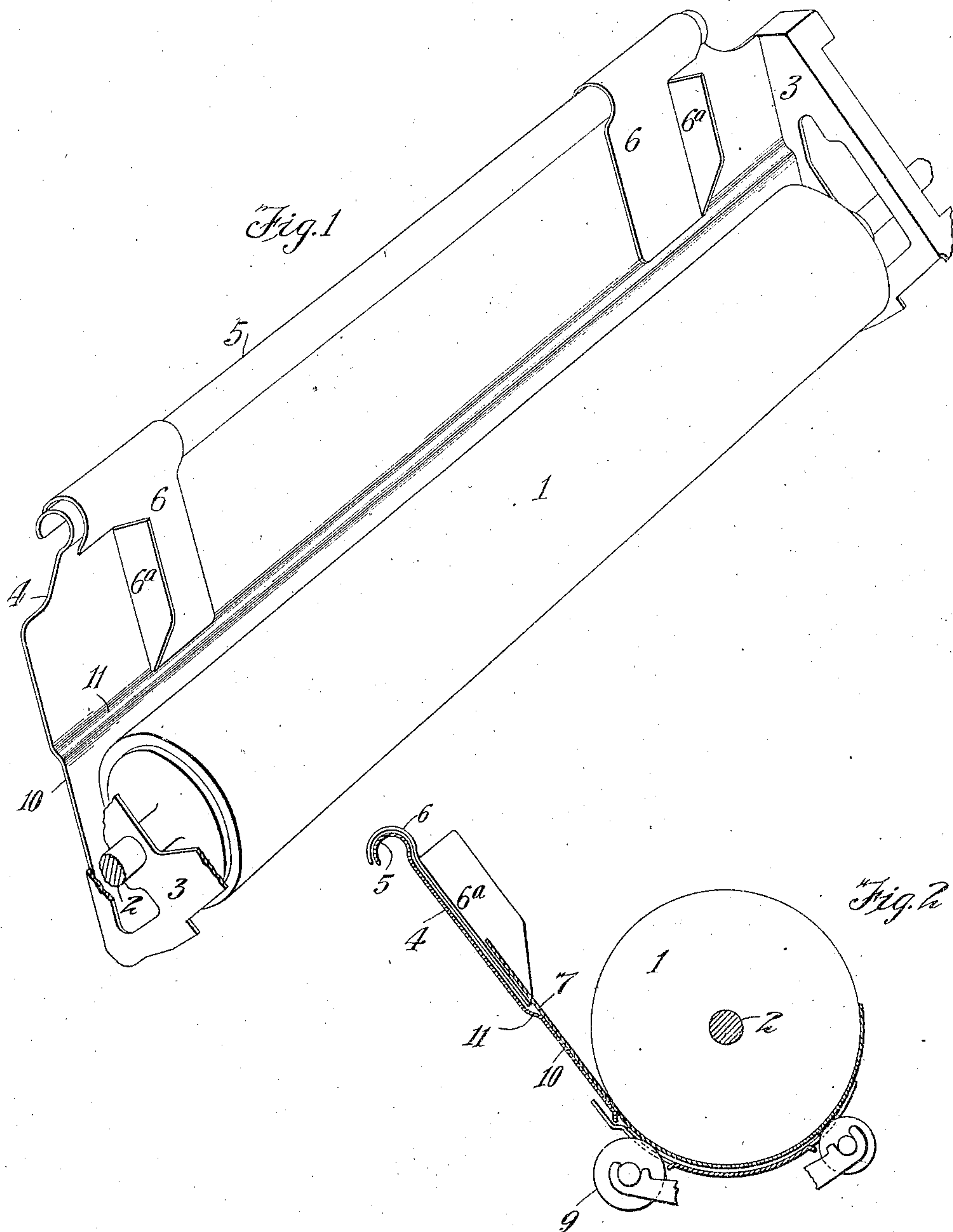


J. C. McLAUGHLIN.
TYPE WRITING MACHINE.
APPLICATION FILED OCT. 15, 1910.

986,583.

Patented Mar. 14, 1911.



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UNITED STATES PATENT OFFICE.

JOHN C. McLAUGHLIN, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO UNDERWOOD
TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE.

TYPE-WRITING MACHINE.

986,583.

Specification of Letters Patent.

Patented Mar. 14, 1911.

Application filed October 15, 1910. Serial No. 537,165.

To all whom it may concern:

Be it known that I, JOHN C. McLAUGHLIN, a citizen of the United States, residing in Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to those paper shelves for typewriting machines which are fitted with side gages or guides for the sheets. When the work sheet is backed up or fed backwardly, its bottom end ordinarily slides beneath the floor portions of the gages, which is an objection.

The principal object of this invention is to enable the sheet to be fed backwardly freely, by directing the bottom end of the sheet over the floors of the gages, to which end, I provide the shelf with an elevation or ridge of such height as to support the bottom end of the sheet above and direct it over the lower ends of the guides.

In the accompanying drawings, Figure 1 is a perspective showing one form of the invention applied to the platen frame of an Underwood machine. Fig. 2 is a sectional view.

A platen 1 has an axle 2 journaled in the ends 3 of a platen frame. Said ends are connected by a paper shelf 4 usually having a bead 5 on which are mounted guides 6 having upstanding ledges 6^a forming gages between which the side edges of the work sheet 7 advance. Said guides 6 overlie the shelf and their lower ends approach the lower edge of the shelf. Usually such guides are adjustable along the shelf 4, and the floor portions of the guides 6 are usually separated from the paper shelf 4, as seen at Fig. 2.

The leading end of the sheet is dropped between the rear feed rolls 9 and the platen 1, and as the platen is turned, the sheet is advanced, it being held against skewing by the guides 6 until the bottom edge of the sheet leaves the lower ends of said guides. Thereafter, when the sheets are backed up for corrections or other purposes, the bot-

tom ends of the sheets 7 ride onto a ridge or rib 10 extending across the shelf 4 below the lower ends of said guides 6. The ridge 10 elevates the bottom ends of the sheets above the lower ends or floors of the guides, and as the paper continues to feed backwardly, directs the sheets upwardly over said lower ends.

The upper edge 11 of the ridge adjacent the lower ends of the guides 6 merges at a slight incline into that part of the shelf overlapped by the guides, to enable the leading ends of the sheets when placed in the machine to glide easily thereover. The longitudinal part of the shelf between the ridge 10 and the bead 5 forms, in effect, a depression along which the guides are adjustable.

Having thus described my invention, I claim:

1. In a typewriting machine, the combination with a platen frame including a paper shelf, a platen and a paper guide for the side edge of a sheet, said guide mounted on and extending over the shelf, of means to guide the bottom end of the sheet, when fed backwardly, over the lower end of the paper guide.

2. In a typewriting machine, the combination with a platen frame including a paper shelf, a platen, feed rolls, and a paper guide mounted on and extending down upon the shelf, of a ridge between the lower end of the guide and the rear feed roll to direct the bottom end of the sheet, when fed backwardly, over the lower end of the paper guide.

3. In a typewriting machine, the combination with a platen, a platen frame having a paper shelf, and a paper guide mounted on the shelf, of a ridge pressed in and forming an integral part of the paper shelf below the lower end of the paper guide, to support the bottom end of the sheet, when fed backwardly, and direct it over the lower end of the guide.

4. In a typewriting machine, the combination with a platen, a platen frame including a paper shelf, and a paper guide mounted on the shelf, the lower edge of the shelf being

offset in line with the lower end of the paper guide to direct the bottom ends of the sheets over the lower end of the guide, when said sheets are fed backwardly.

- 5 5. A paper shelf for typewriting machines having a depression extending from end to end near its upper edge to accommodate a

paper guide, the lower end of which lies in the depression out of line with the bottom edge of the shelf.

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