

E. J. Toof.
Book Support.
N^o 52,343. Patented Jan. 30, 1866.

Fig: 1.

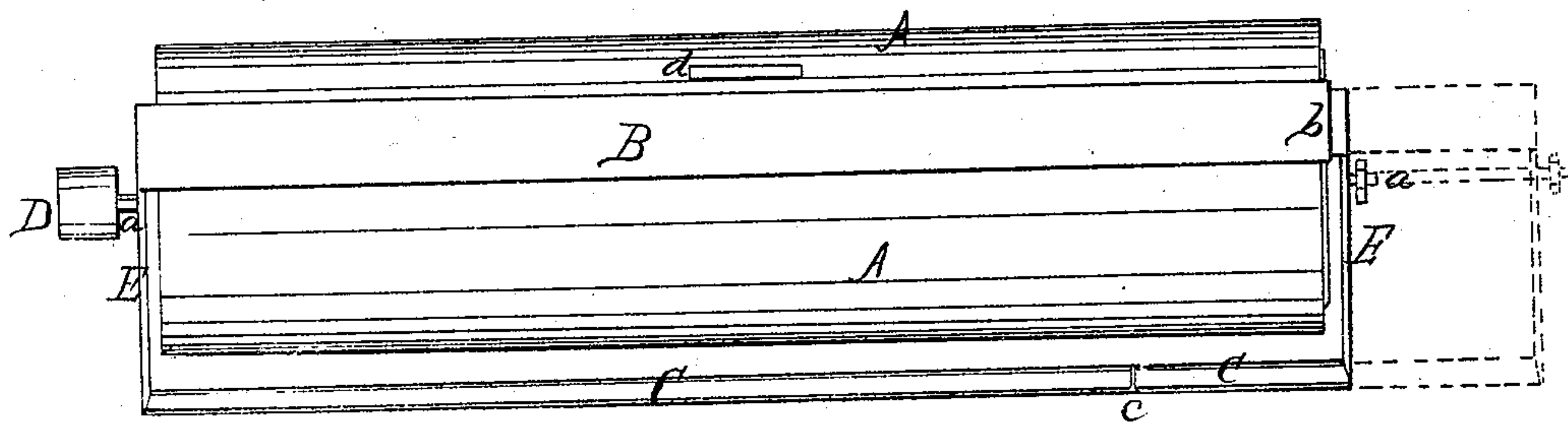


Fig: 3.

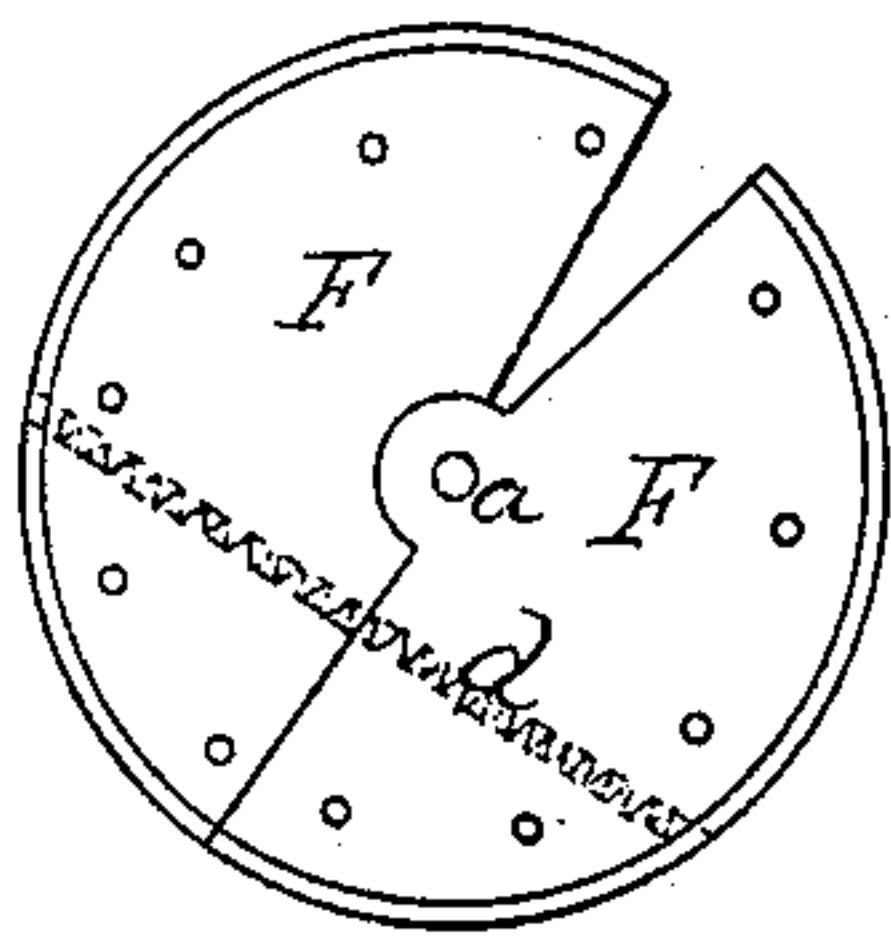


Fig: 2.

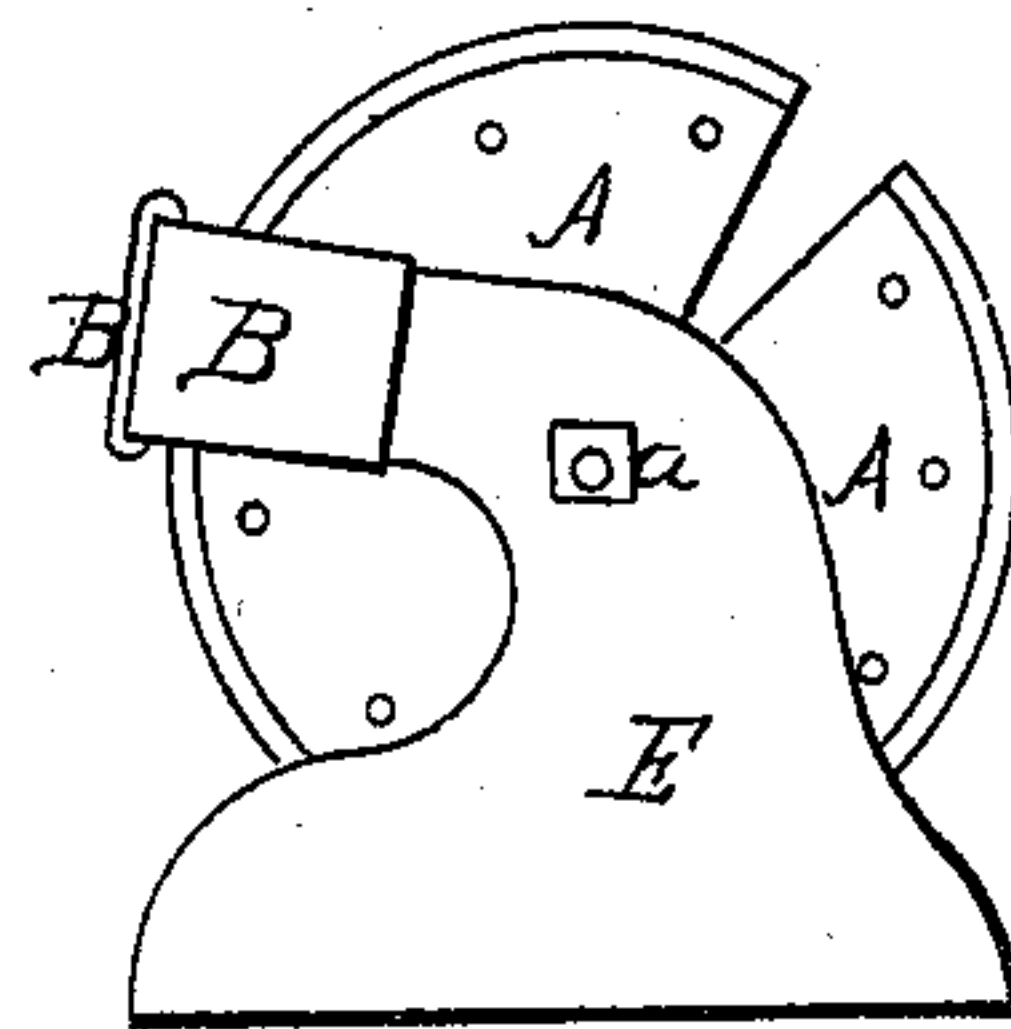
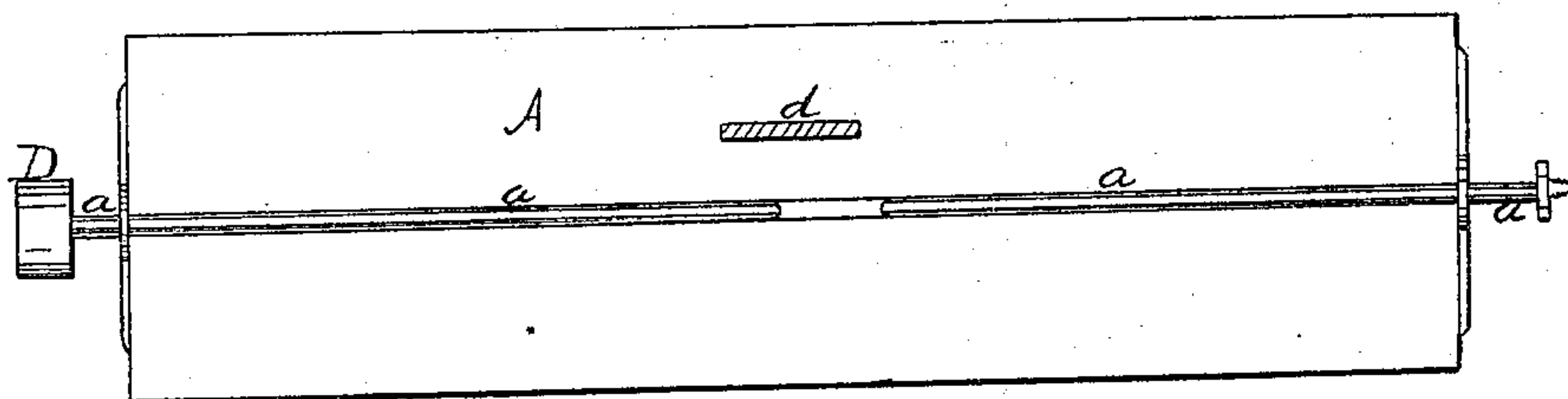


Fig: 4.



Witnesses

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UNITED STATES PATENT OFFICE.

EDWIN J. TOOF, OF FORT MADISON, IOWA.

PAPER-HOLDER.

Specification forming part of Letters Patent No. 52,343, dated January 30, 1866.

To all whom it may concern:

Be it known that I, EDWIN J. TOOF, of Fort Madison, in the county of Lee and State of Iowa, have invented a new and useful Improvement in Paper-Holders; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and the letters and figures marked thereon, which form part of this specification.

The nature of my said invention consists in a novel arrangement of a roller to which the paper to be copied may be attached in any suitable manner, and upon which it is rolled as the copying progresses, with an index or guide arranged parallel thereto, which serves as a guide to the eye in tracing the lines to be copied, and also presses the paper firmly against the roller and prevents its revolving too freely.

My invention further consists in a novel arrangement or construction of the aforesaid roller, whereby the paper may be readily and conveniently attached to the same, and also in so constructing the apparatus that it may be extended or contracted longitudinally, to adapt to papers of different widths.

To enable those skilled in the art to understand how to construct and use my invention, I will proceed to describe the same with particularity, making reference in so doing to the aforesaid drawings, in which—

Figure 1 represents a front elevation of my invention; Fig. 2, an end view thereof; Fig. 3, an end view of the roller, showing the manner in which the two parts are connected; and Fig. 4 is a view of one-half of the roller, showing the mode in which the axis or shaft is attached thereto.

Similar letters of reference in the different figures denote the same parts of my invention.

A represents a roller of suitable dimensions, which may be constructed of a single piece or in two parts, as hereinafter described, as preferred. If constructed of a single piece, some suitable device for attaching the paper thereto must be attached. This roller is supported upon the shaft or axis *a*, whose ends rest in suitable bearings in the uprights E E, which are fixed upon the ends of the bottom C.

B represents an elastic bar or index, pro-

vided with sockets at each end fitting upon the ends of the supports E, as shown, so as to be adjusted nearer to or farther from the roller, as may be desired, or it may be supported in any suitable manner. This guide is designed to rest closely against the paper coiled around the roller, to keep it firmly in place, and preventing the too free rotation of the roller, and also to lie parallel to the lines written upon the paper, so that by adjusting the roller properly each line successively may be brought up just above or below the guide, when, the eye following along the line guided by said index-bar, the copyist is enabled to perform his work with much less liability of committing errors than could otherwise be done.

When the roller is constructed in two parts, as shown in Figs. 2 and 3, the parts may be connected by attaching the plates F F, or any suitable devices, to the ends of the rollers, and passing the axis *a* through projections overlapping each other, as shown.

By inserting a suitable spring between the parts, as shown at *d* in Figs. 3 and 4, two of the edges of the semi-cylinders are pressed or drawn together firmly, so as to hold the edge of the paper to be copied, while the revolution of the roller, by means of the button D upon the shaft *a*, coils the paper around the roller as the copying progresses.

The parts of the roller are opened to admit of the insertion of the paper by pressing the opposite edges together, when, by releasing the same, the parts resume their former position and confine the paper.

To enable the extension of the apparatus to be effected to adapt the same to paper of different widths, the bottom of the frame C and also the guide or pressure bar B are constructed in two parts, the one sliding into the other, the joints being shown at *c* in the former and at *b* in the latter.

The shaft *a* is likewise constructed in two parts, as shown in Fig. 4, the interior ends being turned inward and entering a longitudinal groove in one part of the roller. The revolution of the shaft, by means of the button D, revolves the roller as desired, while each part of said shaft may be drawn out in the said groove to allow the supports E E to be moved apart as the bar B is extended, as the width of the pa-

per which may be coiled upon the roller is governed or limited to the distance between the said supports E.

Instead of the precise construction herein shown to provide for the extension of the apparatus, many other simple arrangements may be employed, the main point being to enable the same to be extended.

Instead of the spring shown and mentioned for holding the paper between the parts of the roller, any similar device may be employed, or the edges of the semi-rollers may be held and adjusted by set-screws.

Having described my improvement, I will now specify what I claim as new therein and desire to secure by Letters Patent—

1. Producing a pressure upon the roller by means of an elastic bar, B, or its equivalent, substantially as described.

2. Constructing the roller A in two parts, when connected and provided with a spring, *d*, or its equivalent, substantially as shown and specified.

3. So constructing and arranging the frame C and axis *a*, with a roller, A, that the apparatus may be extended, substantially as and for the purposes specified.

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Witnesses:

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