

No. 626,259.

Patented June 6, 1899.

H. WHITFIELD.
MANIFOLD PAD.

(Application filed Nov. 24, 1897.)

(No Model.)

FIG. I

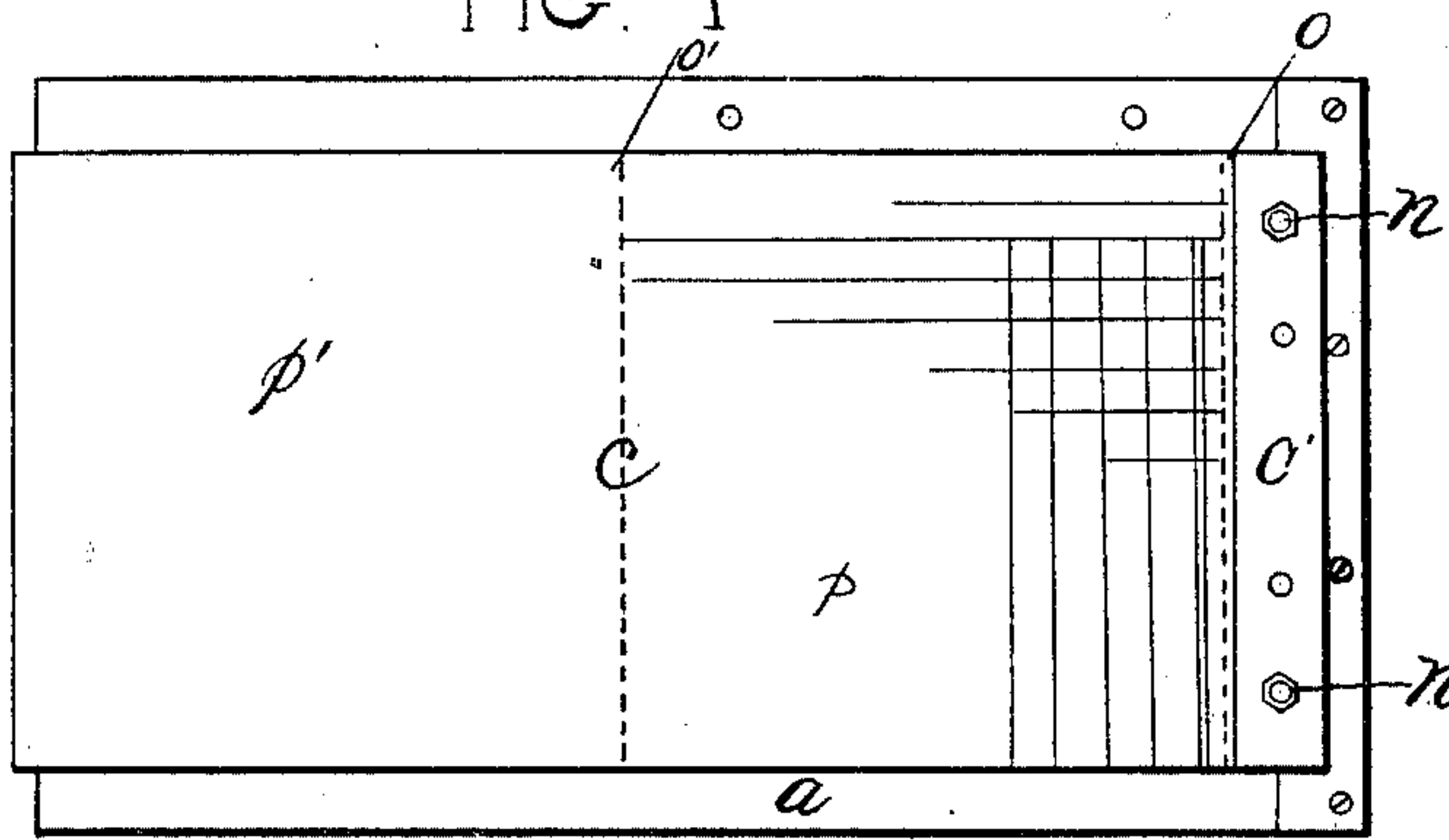


FIG. II

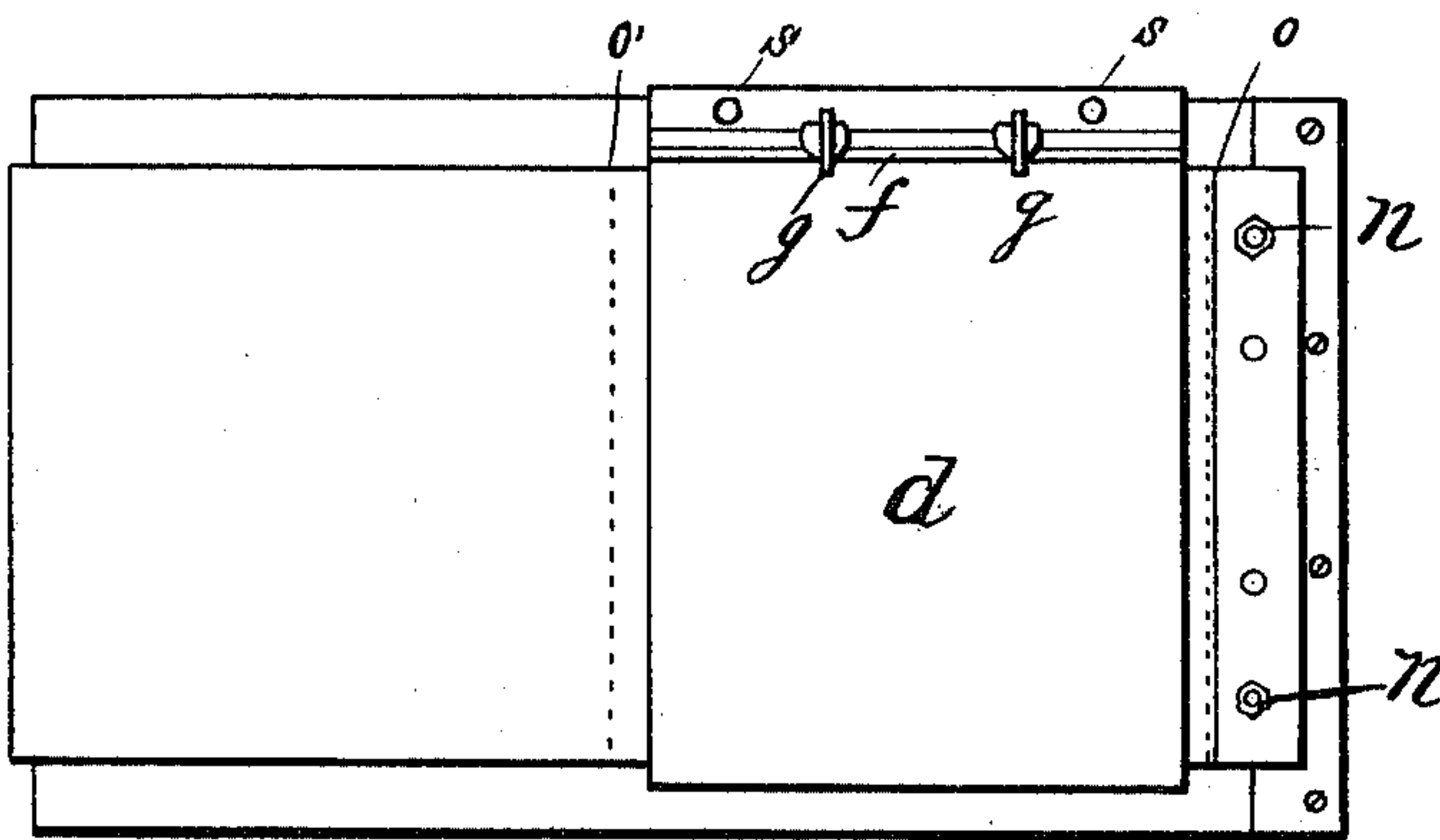
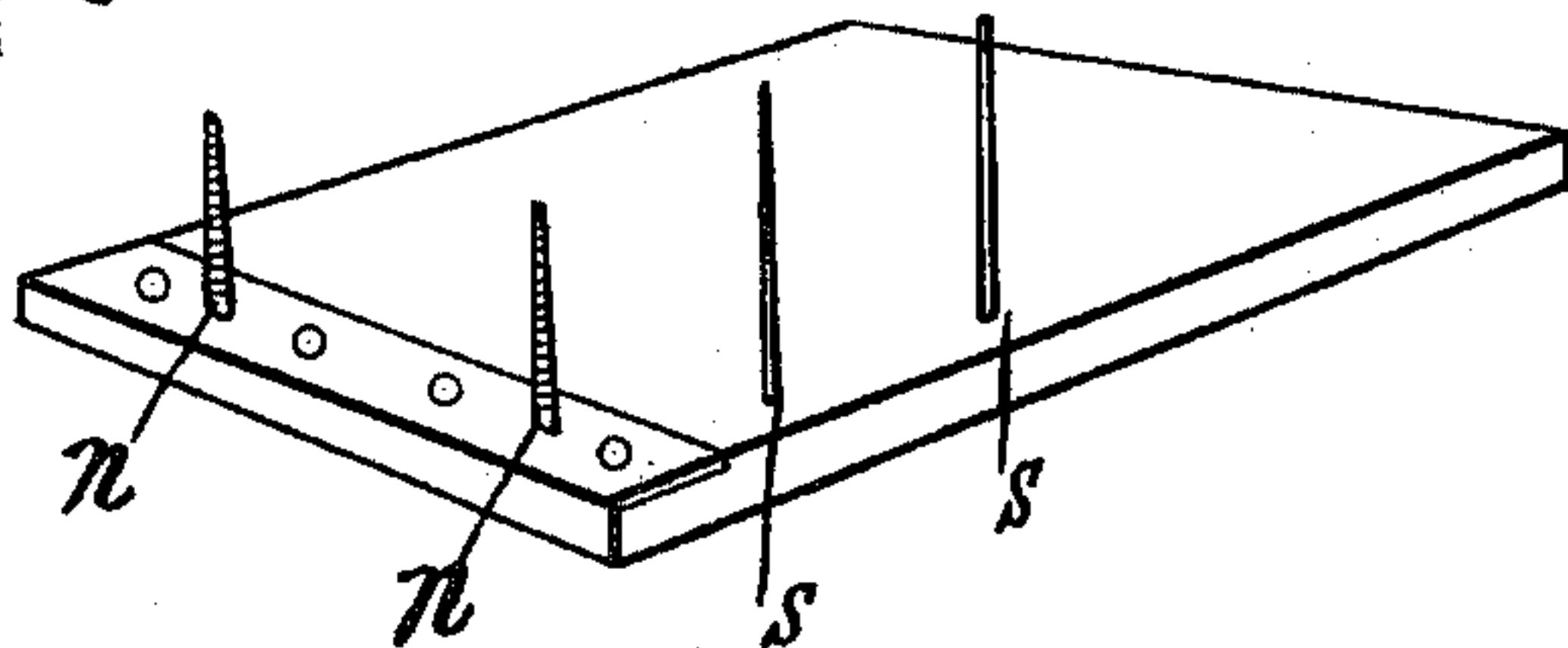
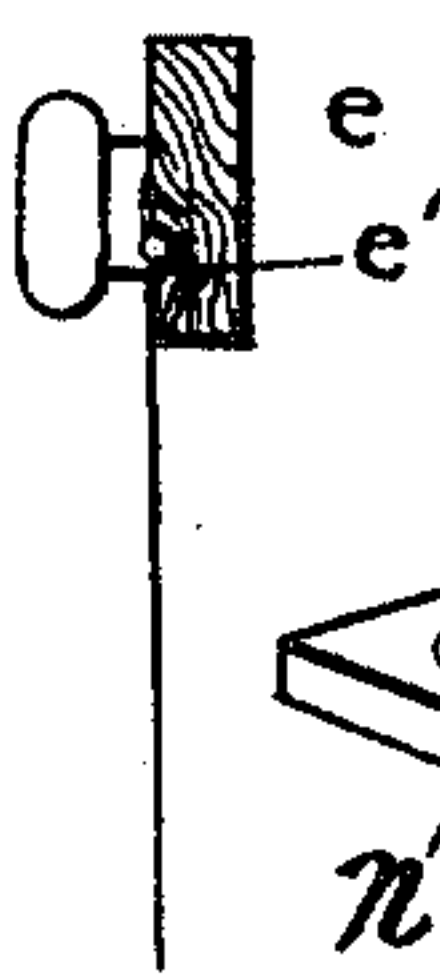
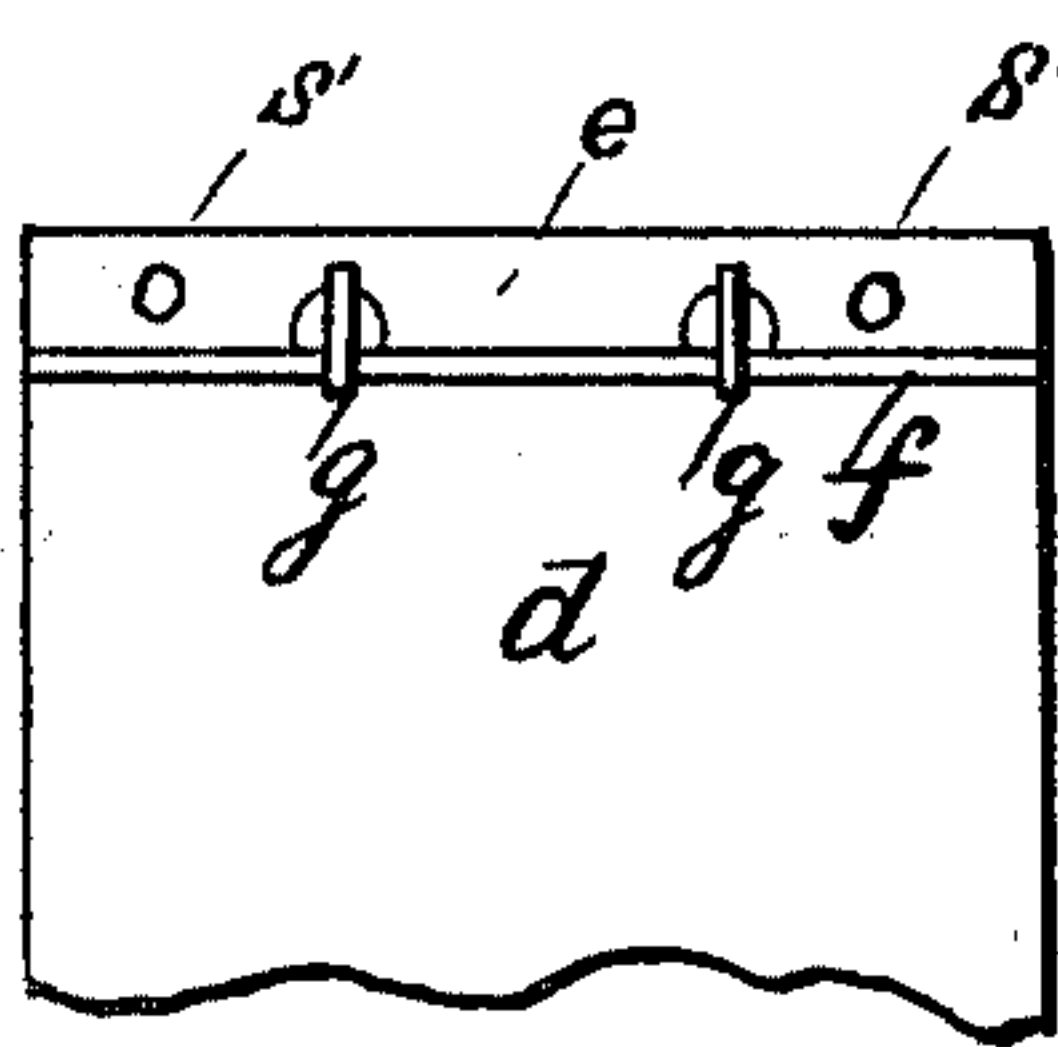


FIG. III

FIG. V

FIG. IV



WITNESSES

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HOWARD WHITFIELD, OF RED BANK, NEW JERSEY.

MANIFOLD-PAD.

SPECIFICATION forming part of Letters Patent No. 626,259, dated June 6, 1899.

Application filed November 24, 1897. Serial No. 659,708. (No model.)

To all whom it may concern:

Be it known that I, HOWARD WHITFIELD, of the town of Red Bank, county of Monmouth, and State of New Jersey, have invented a new and useful Improvement in Manifold-Pads, of which the following is a specification.

This invention relates to manifold pads or appliances for manifold duplicate bills, shipping-receipts, &c., its object being to preserve the manifold-paper in a more perfect condition and facilitate the work, as will be hereinafter explained.

In the accompanying drawings, which form a part of this specification, my invention is fully illustrated, with similar letters of reference to indicate corresponding parts, as follows:

Figure 1 represents a plan view showing the foundation-piece *a*, which is composed of wood and of reversible printed and vertical perforated manifold-paper pads *c*, which are secured to the foundation-piece *a* by means of the pins *n* and *n*. Fig. 2 represents the same view showing carbon-paper leaf which rests upon the printed portion of the paper pad *c*. Fig. 3 represents a face view of a part of the carbon-sheet *d* and its frame *e*. Fig. 4 represents the foundation-piece *a*, showing the threaded pins *n* and *n*, to which the manifold-pad *c* is secured by means of the bound portion *c'* and the pins *s s*, to which the carbon-sheet *d* is secured by means of its frame *e*; and Fig. 5 represents a side view of the same, showing an end view of the frame *e*.

Heretofore it has been the custom ordinarily to use carbon-paper between manifold-pads, one placed directly above the other and bound at one edge, it being necessary to insert the carbon between the leaves upon which it is desired to write at each and every time the pad is used. In this way the carbon becomes destroyed very quickly and is rarely satisfactory from the fact that the carbon will be wrinkled and smuts off on the fingers when it is being straightened, and if it is left unsmoothed the transcription on the lower sheet is sometimes incomplete. There are other devices also for the use of carbon in frames, and in these cases it is open to the same objection.

My device therefore consists in creating a means to overcome these objections and facilitate the work, as follows:

The pad which I employ, and which is designated in the drawings as *c*, consists of a series of sheets of paper bound only on one end and provided with vertical perforated lines, which divide the sheet in equal parts. The printing on one sheet—say the right-hand side—(marked *p* in the drawings) is on the surface, while the printing on its neighbor (marked *p'*) is folded over on top of the leaf *p*. The printing on both will face upward. The carbon-sheet is provided with a wooden frame, which contains two holes, as *s'*. These fit over the pins *s s* after the manifold-pad *c* is in place on the foundation-piece *a*, as shown in Fig. 1. Thus the carbon-sheet *d* lies directly across the pad *c* and over the printed leaf *p*. The leaf *p'* is then folded over on top of the carbon-sheet *d*, and when the leaf *p* is written on it will of course be transferred to the leaf *p*. The two perforated leaves are then torn off at the perforated line *o*, and the duplicate copies are therefore complete. When the leaves *p* and *p'* are drawn from under the carbon-leaf *d*, the carbon-leaf will rest upon the printed portion of the next manifold-sheet and will again be ready for use.

The method of securing the manifold-pad *c* to the foundation-piece *a* is simply to provide two holes in its bound portion *c'* and drop it over the threaded pins *n*, after which the two small nuts are screwed on to hold it in place.

The method I employ to secure the carbon to the frame *e* is simply to provide a groove along the frame, as shown at *e'*, in which the carbon rests, and a small brass rod, as *f*, is placed upon the carbon within the groove. Two small thumb-screws, as *g g*, which are provided with a semicircular base, are secured to the frame *e*, as shown in Figs. 3 and 5. After the carbon is inserted within the groove the rod is laid on top and the thumb-screws turned so that their round portion rests on top of the rod, as shown in Fig. 2. When it is desired to change the carbon, the thumb-screws *g* are turned in a reverse direction, as shown in Fig. 3, and the rod *f* can be lifted out.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is as follows:

1. A foundation-piece *a* provided with the pins *n n* and *s s* in combination with a per-

forated pad as *c*, secured on the pins *n n* and a carbon-leaf as *d* secured by means of suitable frame as *e* to the pins *s s*, substantially as and for the purpose specified.

5 2. A carbon-leaf frame *e* provided with a groove *e'* and semicircular base thumb-screws *g* in combination with a rod *f*, substantially as described.

10 3. A manifold device consisting of a foundation-piece, pins projecting upwardly therefrom and near two of the adjoining edges thereof, a pad mounted upon said foundation-piece and penetrated by the pin or pins near one of the said edges, a carbon-frame penetrated by the pin or pins near the other of
15 said edges and a carbon-leaf secured in said frame, and extending across said pad, substantially as described.

4. A manifold device consisting of a foundation-piece, pins projecting upwardly there-

from and near two of the adjoining edges thereof, a perforated pad mounted on said foundation-piece and penetrated by the pin or pins near one of said edges, a carbon-frame penetrated by the pin or pins near the
25 other of said edges and a carbon-leaf secured in said frame and extending across said pad parallel to the perforations thereof, substantially as described.

In testimony that I claim the foregoing improvement in manifold-pads, as above described, I have hereunto set my hand this
30 21st day of October, 1897.

HOWARD WHITFIELD.

Witnesses:

C. L. MALCOLM,
R. H. INCH.