

No. 881,307.

PATENTED MAR. 10, 1908.

A. B. DICK.
STENCIL DUPLICATING APPARATUS.
APPLICATION FILED NOV. 25, 1904.

Fig. 1,

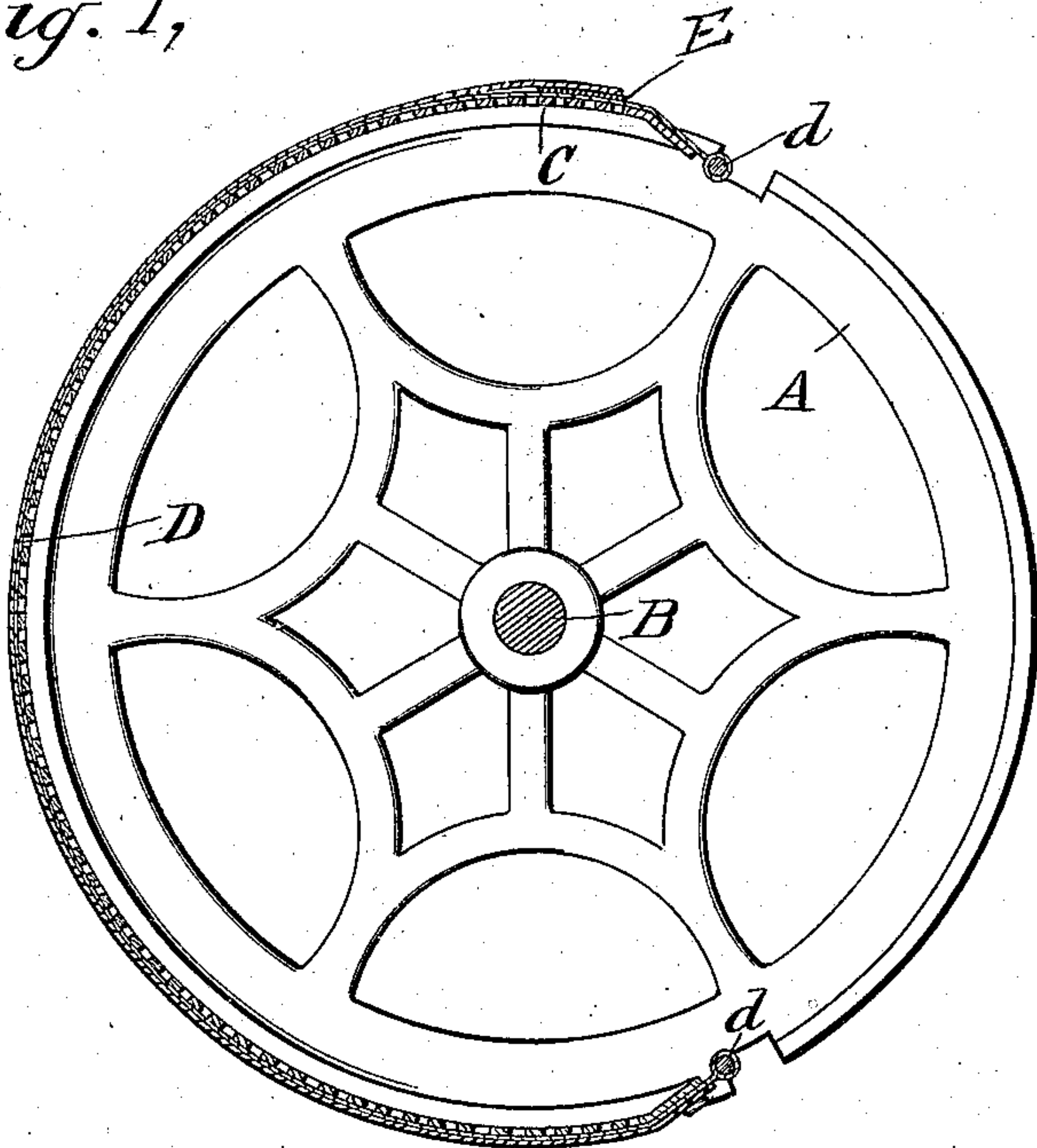
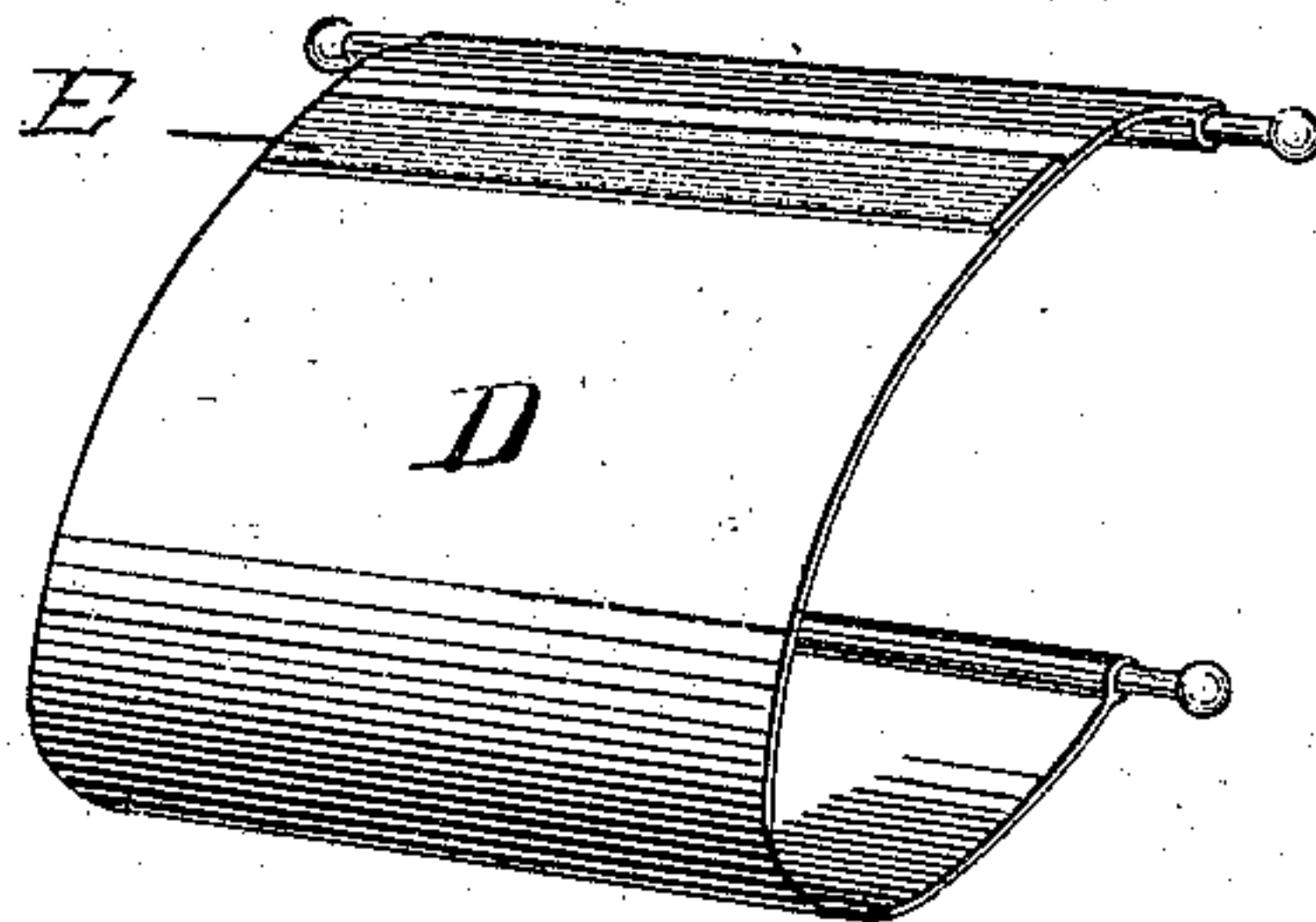


Fig. 2,



WITNESSES:

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ALBERT B. DICK, OF LAKE FOREST, ILLINOIS, ASSIGNOR TO A. B. DICK COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

STENCIL-DUPLICATING APPARATUS.

No. 881,307.

Specification of Letters Patent.

Patented March 10, 1908

Application filed November 25, 1904. Serial No. 234,294.

To all whom it may concern:

Be it known that I, ALBERT B. DICK, a citizen of the United States, residing at Lake Forest, in the county of Lake and State of Illinois, have invented a certain new and useful Improvement in Stencil-Duplicating Apparatus, of which the following is a specification.

The present invention is applicable particularly, although not exclusively, to that type of duplicating apparatus in which is employed a rotary drum having a stencil-carrier upon the outer surface whereof a stencil is supported.

The object of the invention is to increase the efficiency of apparatus of this general type with respect to the provision for applying the stencil-sheet and securing the same in position against the tendency experienced in the operation of the machine to either separate such stencil from its support or to move it relatively thereto. Mechanism heretofore employed for this purpose includes clamping devices of various forms, projecting pins designed to perforate or be received in perforations in the edge of the stencil-sheet, locking plates etc., in all these the union between the drum and the stencil-sheet being at more or less separated points. Under the present invention, means for stencil-sheet attachment are provided, whereby the entire area of the sheet at one end may be firmly and readily secured in position and yet be capable of easy removal after the same has been used.

An approved form of the invention is illustrated in the drawing, in which

Figure 1 is a central vertical section of the drum of a stencil-duplicating apparatus with my improvement applied thereto, and Fig. 2 is a perspective view of an ink-pad designed for use on such a drum and provided with the fastening means of this invention.

The drum commonly in use comprises two heads A, supported upon shaft B, the heads being connected by a stencil-carrier C of foraminated material. It has been common practice to employ in connection with such a drum, and upon the exterior of the stencil-carrier C, an ink-pad D of textile material. This has usually been made in the form of an endless belt and secured in position by headed rods *d* passing through the ends of the pad and received in jaws or recesses formed in the drum-heads A. The office of

such a pad is to receive ink fed through the perforations in the stencil-carrier and to supply the same under pressure to the stencil-sheet and through the characters formed therein.

Under the present invention, I may dispense entirely with clamping, locking or other mechanism for securing the end of the stencil-sheet in position over the stencil-carrier or ink-pad, and this I make possible by providing an adhesive surface on some fixed part of the apparatus, and by "fixed" I mean some part moving with the drum. Such adhesive material may be carried either by the foraminated stencil-carrier, by the ink-pad, or by a portion of backing or other sheet secured in any suitable manner so as to move with the drum. As a disclosure of one embodiment of the invention, I have illustrated in the drawings a strip E of paper, cardboard or other material, which may be secured (permanently or detachably) to the ink-pad near the forward edge thereof, and the upper surface of which strip may be provided with an adhesive material, such as glue, mucilage, paste etc. In order to apply the stencil-sheet and secure the same in position, it is only necessary to moisten the exposed surface of such adhesive material and to press the end of the stencil-sheet firmly thereon. If the pad has been used and is therefore saturated more or less with ink, it will only be necessary to press the stencil-sheet firmly against the same and this will prevent the accidental detachment of the other end. I may, however, under the invention, provide an adhesive material at two points, so that both ends of the stencil-sheet may be made fast, as above described.

The obvious advantages of the invention herein disclosed reside, first, in the characteristic of cheapness, no locking or clamping mechanism being essential, nor in fact any particular construction of the drum beyond the provision of some part moving therewith, to which the stencil-sheet may be secured; second, in avoiding the necessity for a particular construction or arrangement of stencil-paper to adapt it for use on a drum provided with my invention, it being apparent that any stencil-sheet now known, whether plain or provided with means adapted to coact with particular clamping, locking or securing devices, may readily be

employed; and third, the ease and speed with which such a stencil-sheet may be applied to the machine, it being essential only, as above indicated, to moisten the adhesive surface and apply the sheet thereto under gentle pressure. With equal speed and ease, such sheet may be removed from the adhesive material after the sheet has been used.

Having now described my invention, what I claim as new therein and desire to secure by Letters Patent is as follows:—

1. In duplicating apparatus, the combination with a drum, of a stencil-carrier thereon, a pad of textile material secured to the drum over said stencil-carrier and extending about a substantial portion of the drum, an adhesive material on said pad, and a stencil-sheet coacting with said material, substantially as set forth.

2. In duplicating apparatus, the combination with a drum, of a foraminated stencil-

carrier thereon, a part detachably secured to the drum and overlying said stencil-carrier, said part being provided with an adhesive material, and a stencil-sheet coacting with said material, substantially as described.

3. In duplicating apparatus, the combination with a drum, of a foraminated stencil-carrier thereon, a pad detachably secured to the drum and overlying said stencil-carrier, a strip secured on said pad and provided with an adhesive material, and a stencil-sheet coacting with said material, substantially as described.

This specification signed and witnessed this 18th day of November, 1904.

ALBERT B. DICK.

Witnesses:

S. O. EDMONDS,
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