

No. 720,287.

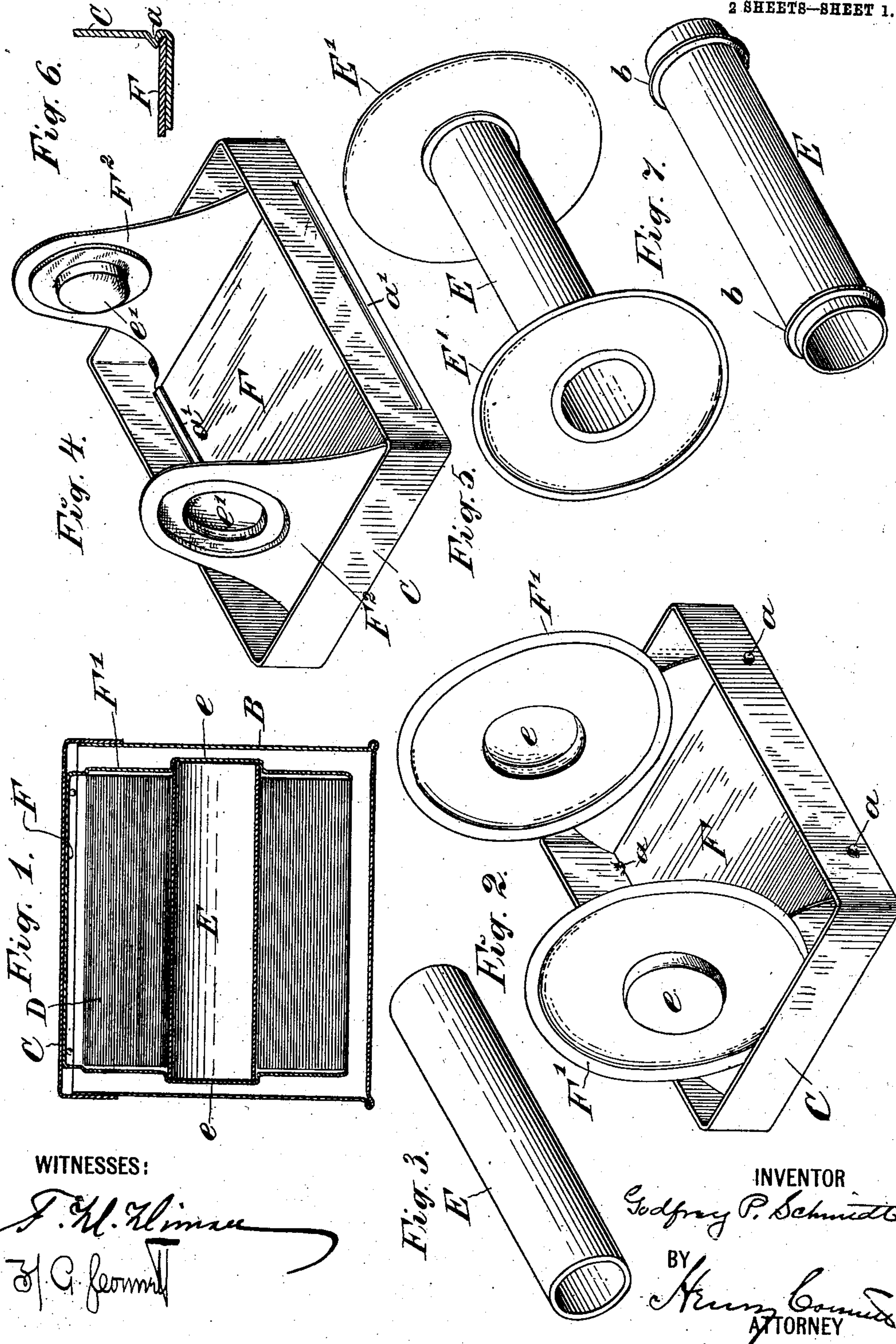
PATENTED FEB. 10, 1903.

G. P. SCHMIDT.
RIBBON HOLDER.

APPLICATION FILED NOV. 17, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

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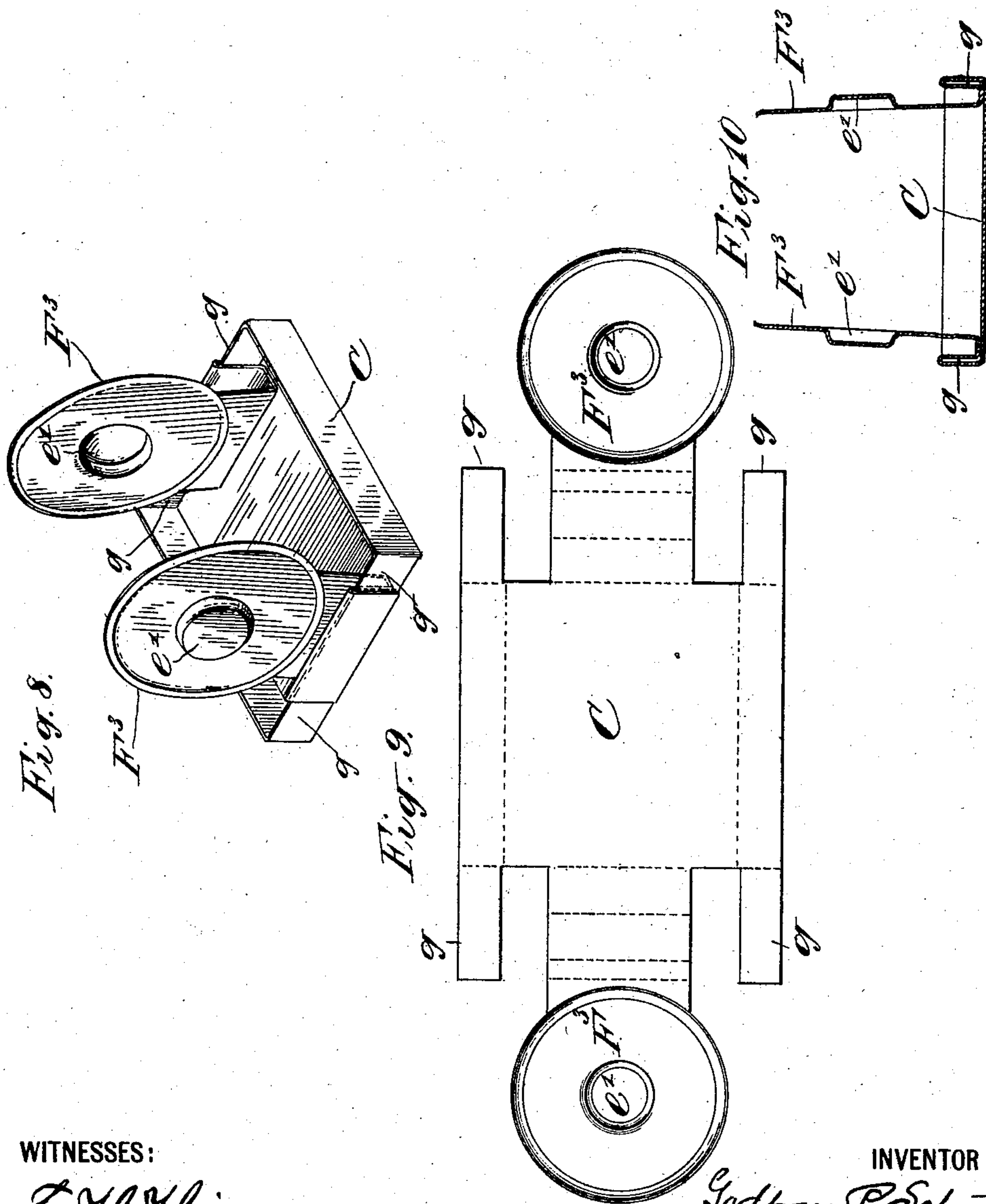
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2 SHEETS—SHEET 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GODFREY P. SCHMIDT, OF BROOKLYN, NEW YORK.

RIBBON-HOLDER.

SPECIFICATION forming part of Letters Patent No. 720,287, dated February 10, 1903.

Application filed November 17, 1902. Serial No. 131,598. (No model.)

To all whom it may concern:

Be it known that I, GODFREY P. SCHMIDT, a citizen of the United States, residing in the borough of Brooklyn, in the county of Kings, in the city and State of New York, have invented certain new and useful Improvements in Ribbon-Holders, of which the following is a specification.

This invention relates to a simple and convenient holder and case for a rolled ribbon or the like—such, for example, as a type-writer ribbon.

In the accompanying drawings, which illustrate embodiments of the invention, Figure 1 is a vertical section of the box which incloses the holder and a roll of ribbon, the section being along the axis of the roll. Fig. 2 is a perspective view of the holder and box-cover. Fig. 3 is a perspective view of the core on which the ribbon is wound. Fig. 4 is a view similar to Fig. 2, illustrating a slightly-different form of the holder; and Fig. 5 is a perspective view of the spool for the ribbon to be mounted in the holder of Fig. 4. Fig. 6 is an enlarged sectional detail view showing means for securing the holder in the box-cover, and Fig. 7 is a perspective view of a core with beads. Figs. 8, 9, and 10 illustrate a construction where the spring-like end pieces of the holder are formed integrally with the box-cover. Fig. 8 is a perspective view. Fig. 9 shows the blank from which the cover and holder are formed, and Fig. 10 is a section illustrating the construction.

B is the box, which will usually be of sheet metal, and C is its cover, of the same material. There is nothing especially novel in these.

D is a ribbon—as a type-writer ribbon, for example—which is rolled about a core E, which may be a sheet-metal tube. The core E forms a spindle or arbor, whereby the roll of ribbon is rotatively mounted in bearings secured in and suspended from the box-cover when the latter is in place on the box, as in Fig. 1. This device for providing bearings for the roll of ribbon consists, as herein shown, of a sheet of metal forming a base F, which fits up to the inner surface of the box-cover and is secured thereto by suitable means, and two spring-like end pieces F' F', which

are formed by bending up the ends of the metal sheet which forms the base F. The end pieces F' are preferably of such size and shape, Fig. 2, as to protect the ends of the roll of ribbon and will be embossed in the stamping to form recessed bearings *e* for the ends of the core E. The ribbon is wound on the core and the end pieces F' sprung apart, so as to admit the roll and core and permit the ends of the latter to find rotative bearings in the recesses *e*.

The construction shown in Figs. 4 and 5 differs from that seen in Figs. 2 and 3 in that the end pieces F' of Fig. 4 are or may be smaller and the embossing thereof is reversed, so that in lieu of recesses to provide bearings for the roll projecting journals *e'* are formed thereby, which enter the respective ends of the tubular core E and provide rotary bearings for the latter. The core in this case, as seen in Fig. 5, has end pieces or disks E', which form with the core a spool for the ribbon.

To hold the base F in place firmly in the box-cover, the latter has in its flange (see Fig. 2) indented portions *a*, which take over the base F, as clearly shown in the detail view, Fig. 6. The several indented portions *a* may be substituted by a single elongated indentation *a'*, as seen in Fig. 4. The core E may also have beads *b* near its respective ends, as seen in Fig. 7.

The construction illustrated in Figs. 8, 9, and 10 comprises a cover C, on which the end pieces F' are formed integrally, as clearly shown in the blank, Fig. 9. The metal is folded along the dotted lines. The free ends *g* of the flanges on the cover are or may be tucked into the fold of the end piece, as seen in Fig. 10. In this construction the base F is omitted.

Having thus described my invention, I claim—

1. In a device for the purpose specified, the combination with the core of the roll, and the box and its cover, of the spring end pieces projecting from the inner face of the box-cover and provided with bearings to support, rotatively, the ends of the said core, substantially as set forth.

2. In a device for the purpose specified, the combination with the arbor or core of the roll,

and the box and its cover, of the holder for the roll, comprising the base F, secured to the inner face of the cover, and the spring end pieces F' formed on said base and having recesses in their inner faces to receive the ends of said arbor or core, substantially as set forth.

3. In a device for the purpose specified, the combination with the box and its cover, of the holder made from sheet material and comprising a sheet the middle portion of which forms a base F, which is held in place by in-

dentations in the flange of the cover, and the spring end pieces F' on said base and formed by bending the same, and the core of the roll, said end pieces having in them bearings for the said core, substantially as set forth. 15

In witness whereof I have hereunto signed my name, this 12th day of November, 1902, in the presence of two subscribing witnesses. 20

GODFREY P. SCHMIDT.

Witnesses:

PETER A. ROSS,
WILLIAM J. FIRTH.