

No. 678,162.

Patented July 9, 1901.

W. H. COE.

PACKAGE ROLL FOR HOLDING AND APPLYING METALLIC LEAF.

(Application filed Feb. 28, 1899.)

(No Model.)

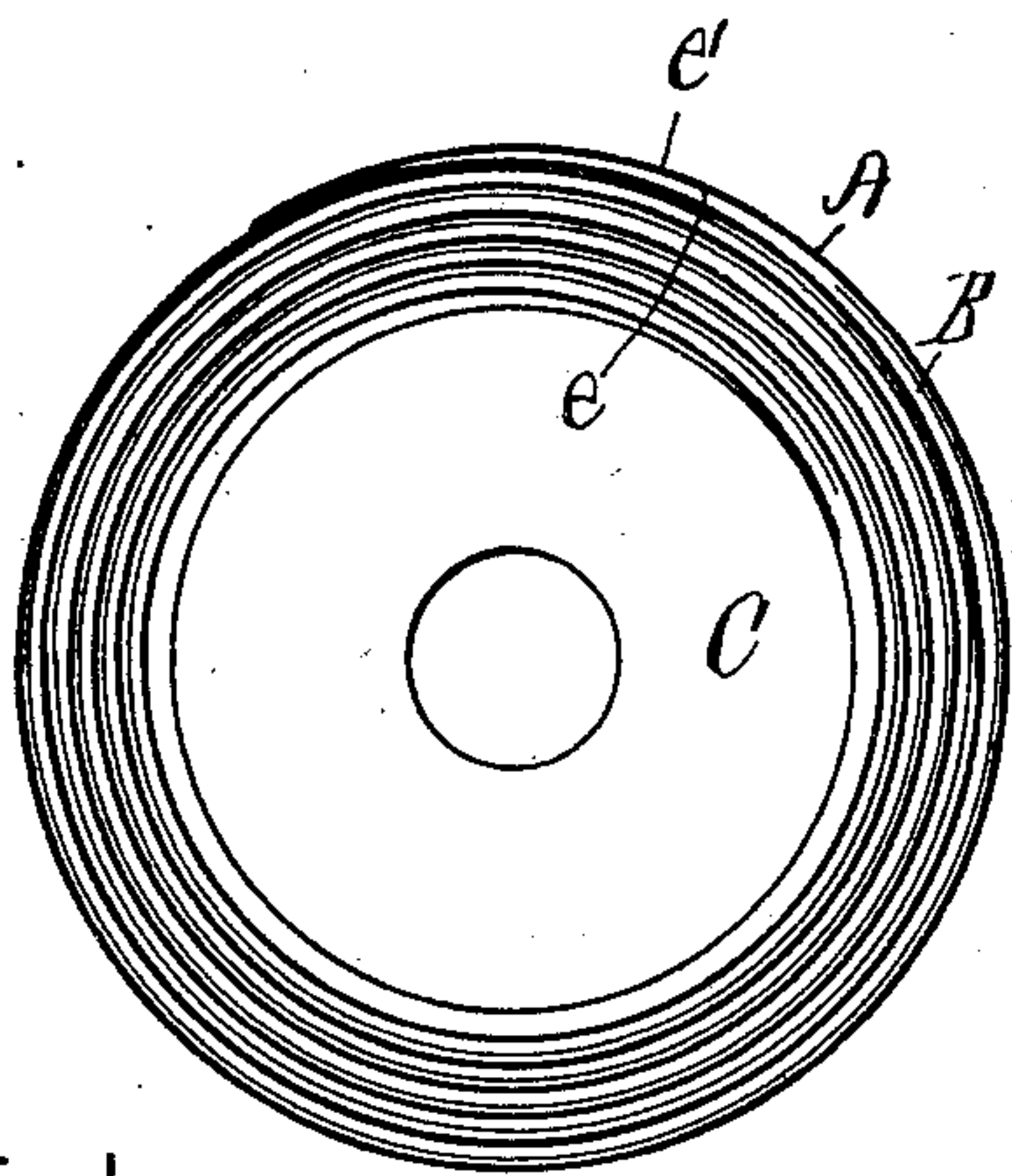


FIG. 1.

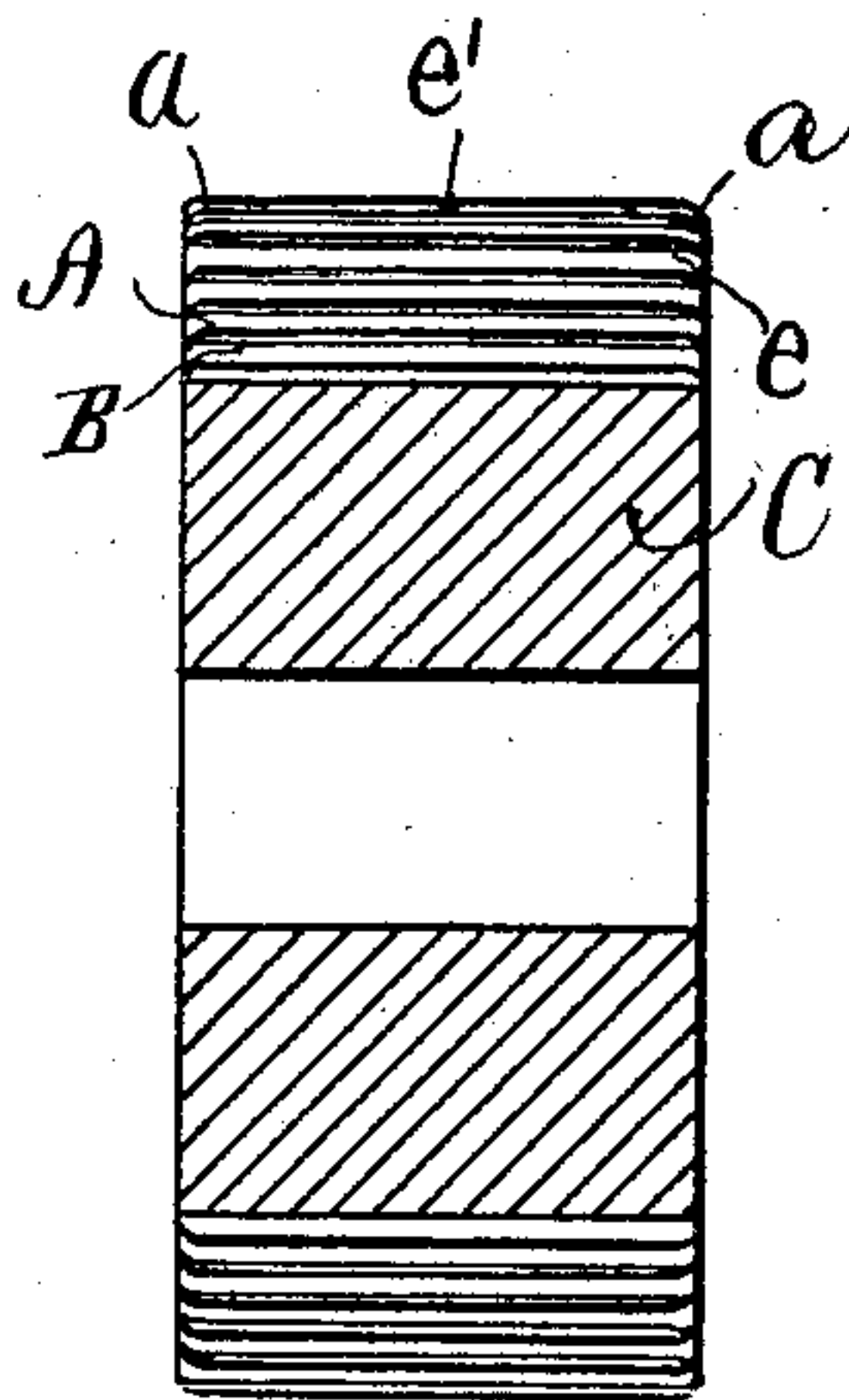


FIG. 2.

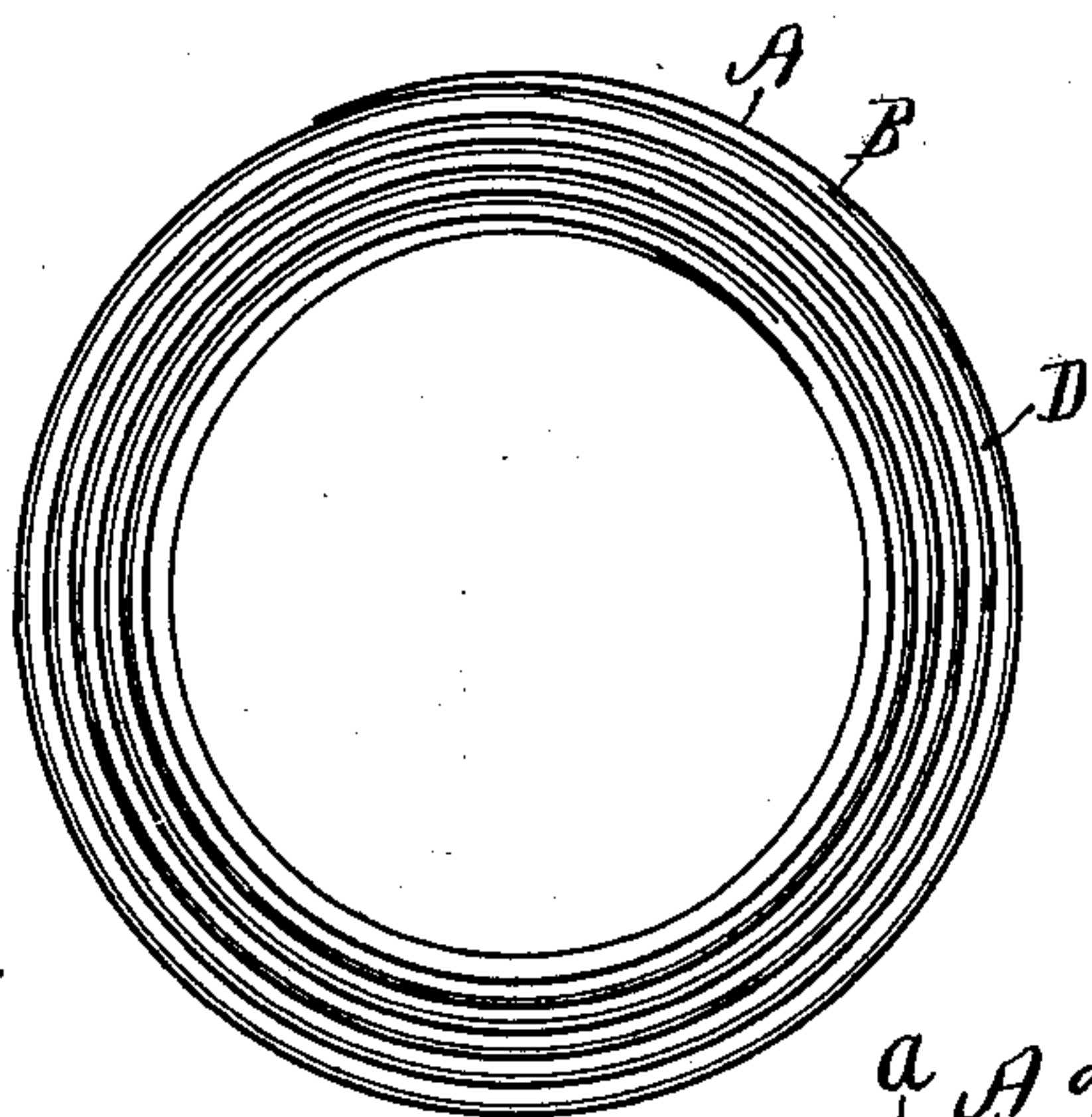


FIG. 3.

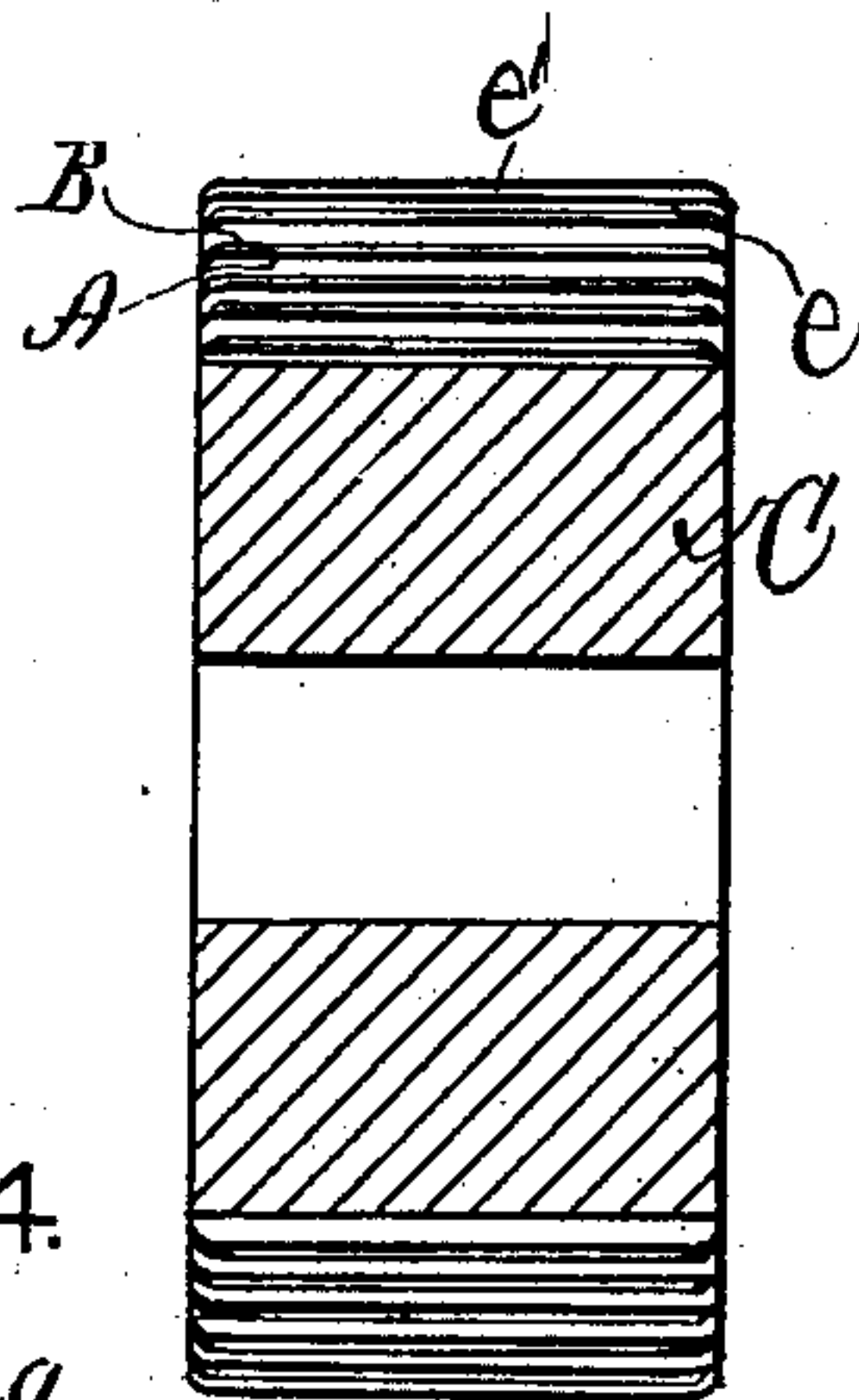


FIG. 4.

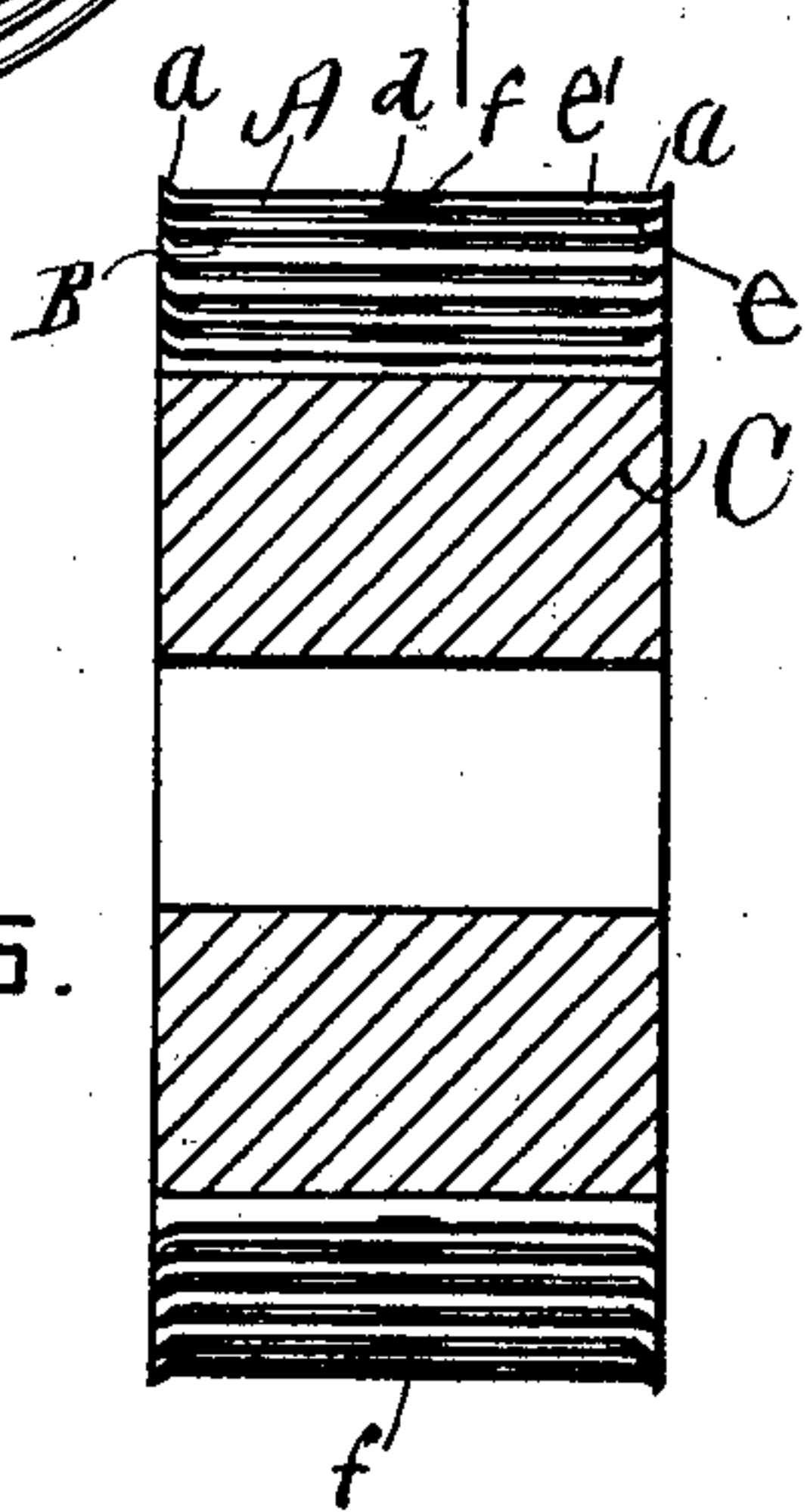


FIG. 5.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

WALTER H. COE, OF PROVIDENCE, RHODE ISLAND.

PACKAGE-ROLL FOR HOLDING AND APPLYING METALLIC LEAF.

SPECIFICATION forming part of Letters Patent No. 678,162, dated July 9, 1901.

Application filed February 28, 1899. Serial No. 707,195. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER H. COE, a citizen of the United States, residing at Providence, in the State of Rhode Island, have invented a new and useful Improvement in Package-Rolls for Holding and Applying Metallic Leaf, of which the following is a specification.

In the employment of package-rolls for holding and applying metallic leaf it is desirable for indoor decoration to have the metallic leaf attached to the accompanying paper strip at the edges only. Heretofore in making such package-rolls it has been the practice to apply rouge, rottenstone, or similar material to one side of the strip to render the surface non-adherent at that side and applying wax, lampblack, or similar materials to render the opposite side adhesive to the metallic leaf; but the employment of wax, lampblack, or similar material has not proved satisfactory on account of the inherent variation in their adhesive qualities under varying atmospheric conditions.

It is the object of my invention to provide a package-roll of metallic leaf in which the leaf is so held against the surface of the supporting-strip that its ready removal therefrom will be facilitated; and my invention consists in the combination of the metallic leaf with a wound strip of paper or other suitable material, the edge portion of the said strip having its surfaces non-adhesive to the metallic leaf and having the edge of the metallic leaf attached mechanically to the adjoining edge of the strip by the turned condition of the said edges, whereby the leaf when unwound from the package-roll will be found lightly attached at one side of the strip by the mechanically-turned condition of the adjoining edges of the film and strip.

In the accompanying drawings, Figure 1 represents an enlarged side view of my improved package-roll of metallic leaf, the spaces between the several layers of the roll being represented out of proper proportion for the purpose of better illustration, whereas in practice the several layers of the improved package-roll are in tightly-wound contact with each other. Fig. 2 represents a section taken in the line 2 2 of Fig. 1, the section-

lines being marked upon the core of the package-roll, but not across the represented layers of paper and metallic leaf. Fig. 3 represents a side view of the package-roll when made without the core. Fig. 4 represents a section as in Fig. 2, showing a modification. Fig. 5 represents a section in which the adjoining edges of the metallic leaf and supporting-strip are turned outward.

In the drawings, A represents the supporting paper strip, B the metallic leaf, and C the core upon which the strip and leaf are wound, and either a wooden or paper tube may be employed for the core C, the said tube being made of any suitable thickness. The surfaces  $e$   $e'$  of the paper strip A, with which the metallic leaf B is wound to form the package-roll, are non-adhesive to the metallic leaf; but the metallic leaf B is rendered adherent to the edges  $a$   $a'$  for connection to one side of the paper strip by the mechanical action of a properly-formed saw or cutter upon the wound strip and leaf when dividing an elongated roll into the required shorter lengths by the operation of sawing or cutting, the metallic leaf B and the paper strip A being turned inwardly to a slight degree at their edges, as indicated in Fig. 2. When it is desired to cause the attachment of the metallic leaf to the inner surface  $e$  of the rolled paper strip, as shown in Fig. 2, I apply a powder, like rouge or rottenstone, to the outer surface  $e'$  of the paper strip to prevent the otherwise slight adherence of the leaf to that side of the strip due to atmospheric or electrical action, and when it is desired to cause the attachment of the metallic leaf to the outer surface  $e'$  of the paper strip, as shown in Fig. 4, I apply the powder to the inner surface  $e$  of the strip, so that in both cases the metallic leaf will be attached to the edges at the unpowdered side of the strip, the powder applied to the surface of the strip at one side serving to prevent the attachment of the edges of the film of metallic leaf to that side of the strip when the cutting pressure is applied to divide the elongated package-roll into rolls of short lengths. The edges of the metallic leaf may also be rendered adherent to the edges of the supporting paper strip by scratching the edges of the paper strip and



film at the ends of the wound package-roll either in an inward direction, as shown in Fig. 4, or in an outward direction, as shown in Fig. 5, subsequent to the division of the elongated roll into the required shorter lengths, and in package-rolls of narrow width the scratching of a single edge of the wound film and strip either outward or inward may suffice for the attachment of the film and strip to each other for the proper unwinding and separation of the film and strip when the metallic leaf is being deposited upon the surface to be decorated.

In the manufacture of elongated package-rolls it may be desirable to provide a slight attachment of the film of metallic leaf to the middle portion *d* of the supporting-strip, and in that case a narrow deposit of wax *f* may be employed, as shown in Fig. 5, the edge portions *aa* of the supporting-strip being left free from such deposit. When the metallic leaf B is mechanically held at the edges of the supporting-strip, as set forth, the application of the metallic leaf to uneven surfaces by its transference thereto from the supporting-strip will be facilitated on account of the ready separation of the leaf from the surface of the strip. The package-roll D may, if desired, be formed upon an arbor and removed therefrom, so as not to include a core, a package-roll without the core being shown in Fig. 3; but for the reason that the package-roll so formed requires greater care in handling the

employment of the supporting-core is preferred.

I claim as my invention—

1. A package-roll of metallic leaf, consisting of a wound supporting-strip powdered at one of its sides to prevent adherence of the metallic leaf thereto, and non-adhesive at its edge, on the opposite side, and a film of metallic leaf wound therewith, the said film being attached to the non-adhesive edge of the supporting-strip, by the mechanically-turned condition of the adjoining edges of the strip and film.

2. A package-roll of metallic leaf, consisting of a wound supporting-strip, and a film of metallic leaf wound therewith, the said film being mechanically attached to the supporting-strip at its edge, by the outwardly-turned condition of the adjoining edges of the strip and film.

3. A package-roll of metallic leaf, consisting of a wound supporting-strip, having a prepared adhesive surface which does not extend to the edge of the strip, and a film of metallic leaf wound therewith, the said film being attached to the non-adhesive edge of the supporting-strip, by the mechanically-turned condition of the adjoining edges of the strip and film.

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Witnesses:

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