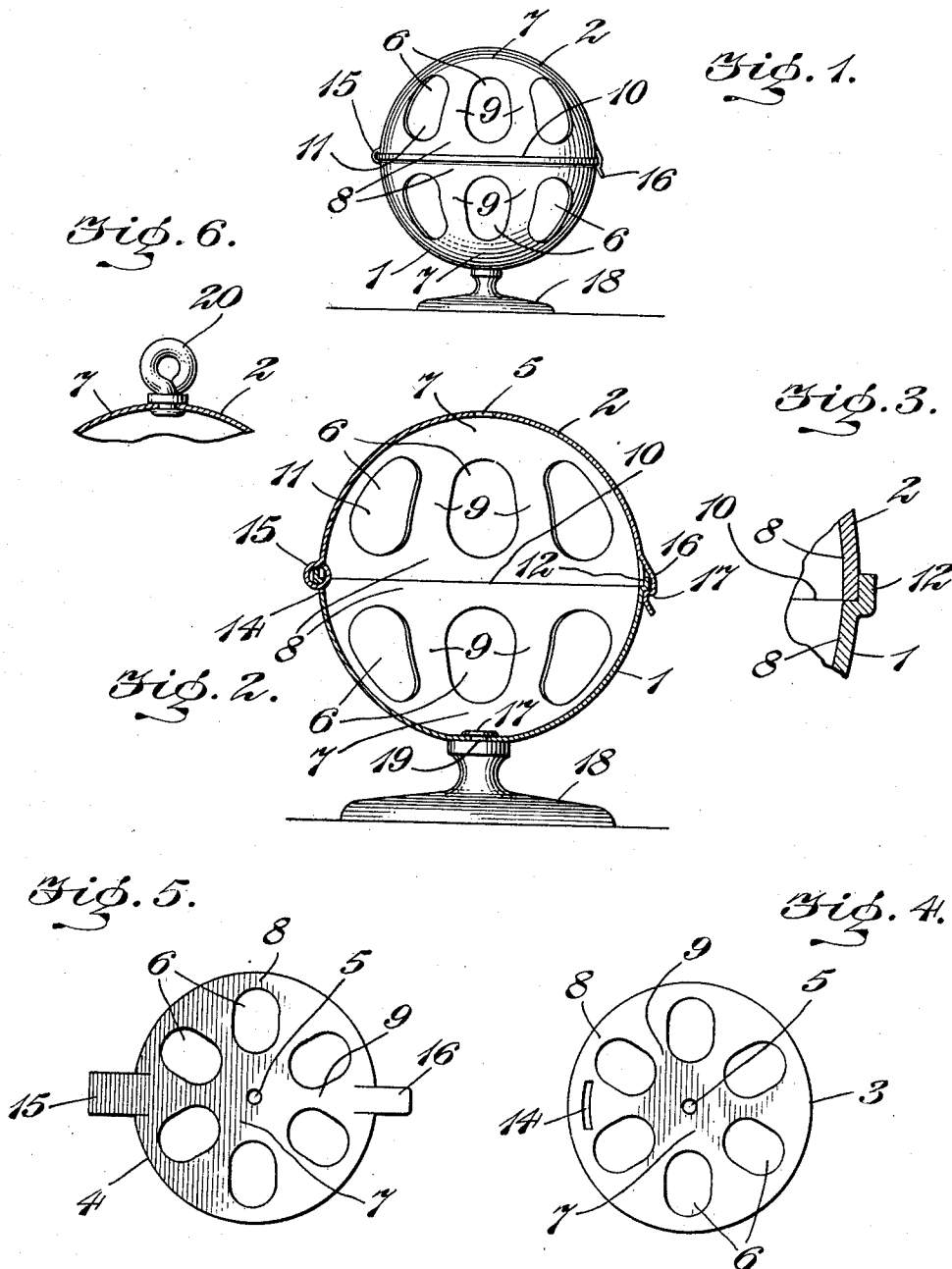


G. E. CHATILLON.
 TWINE HOLDER.
 APPLICATION FILED JULY 2, 1909.

1,005,155.

Patented Oct. 10, 1911.



WITNESSES

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TWINE-HOLDER.

1,005,155.

Specification of Letters Patent.

Patented Oct. 10, 1911.

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To all whom it may concern:

Be it known that I, GEORGE E. CHATILLON, a citizen of the United States, and a resident of the city, county, and State of New York, have invented certain Improvements in Twine-Holders, of which the following is a specification.

This invention relates to certain improvements in holders such as are particularly designed and adapted for use in stores and shops for holding ball twine and the like, and the object of the invention is to provide a device of this character of a simple and comparatively inexpensive nature, formed from sheet metal in a novel and improved way, whereby material advantages and economy are attained in manufacture, and the device is rendered lighter and stronger than other similar holders such as have been heretofore formed from cast metal.

The invention consists in certain novel features of the construction and combinations and arrangements of the several parts of the improved twine holder, whereby certain important advantages are attained, and the device is rendered simpler, less expensive and stronger, and otherwise better adapted and more convenient for use all as will be hereinafter fully set forth.

The novel features of the invention will be carefully defined in the claim.

In order that my invention may be the better understood I will now proceed to describe the same with reference to the accompanying drawings, wherein—

Figure 1 is a side elevation, drawn upon a small scale, showing a twine holder constructed according to my invention; Fig. 2 is an axial section taken vertically through the device; Fig. 3 is a fragmentary sectional view taken through the meeting edges of the members of the device; Fig. 4 is a view showing a blank adapted for use in forming one of the members; Fig. 5 is a view of a blank suitable for the formation of the other member, and Fig. 6 is a fragmentary sectional view showing a modified form of the device which will be hereinafter referred to.

As shown in these views the improved twine holder comprises two similar hemispherical members 1 and 2, adapted to be fitted together as shown in Figs. 1 and 2 to produce a rounded or spherical casing of a

diameter adapted to receive within it a ball of twine or the like to be held.

According to my invention, the members 1 and 2 are formed from sheet metal, such as steel, for example, of sufficient gage, and are produced from similar circular or rounded flat blanks, such as are shown in detail in Figs. 3 and 4 of the drawings, the blank 3 shown in Fig. 4, serving for the formation of the member 1 while the blank 4, shown in Fig. 4, serves for the formation of the member 2.

Each of the blanks 3 and 4 as herein shown, is provided with a small central aperture 5, and also with an annular series of larger apertures 6, 6, concentric around said central aperture 5, and spaced therefrom by an annular imperforate portion 7, and said annular series of apertures 6, 6 are also concentric with the perimeter of the circular or rounded blank, and are spaced therefrom by an annular imperforate portion 8. The apertures 6, 6 are also spaced apart from each other, as herein shown, by portions 9, 9 of the blank extended between them, and which afford integral connections between the imperforate inner and outer annular parts 7 and 8.

In producing one of the cup-like hemispherical members from such a blank, the flattened blank is formed up by means of dies or otherwise to impart such cup-like or hemispherical formation thereto, whereby the inner imperforate portion 7 is caused to form the bottom or top of the cup-like member, while the apertured portion surrounding said inner imperforate portion is pressed upwardly from said inner portion or bottom, to afford the rounded side walls of the member, the imperforate peripheral portion 8 rising above such apertured portion and affording a rim continuously extended around the peripheral edge of the cup-like member and adapted for accurate contact upon the similar rim produced at the meeting edge of the other member, as clearly shown at 10 in Figs. 1, 2 and 3.

The forming up of the cup-like members 1 and 2 from the flattened blanks, as above described, is materially facilitated by the employment of the apertures 6, 6 which weaken that portion of the blank which lies between the portions 7 and 8, the connecting portions 9, 9 extended between said aper-

tures 6, 6 being adapted to be elongated during the forming or drawing up of the outer portions of the blank, so as to facilitate the operation of the dies or other tools, and to permit the members to be produced from blanks of comparatively small diameter and thin gage. During the formation of said members from the blanks as above described, the apertures 6, 6 become elongated as seen at 11 in Figs. 1 and 2, by reason of the stretching of the connecting parts 9, 9. Said apertures, where present, serve to materially lighten the structure, and also to afford a desirable ornamentation to the improved twine holder, for which reason they may be made of any desired shapes.

As herein shown one of the cup-like members, as 1, is provided around the margin of its perimetral portion 8, with an outwardly swaged part 12, affording an inclosed shouldered portion within which the edge portion of the other member is adapted to be accurately received, as shown in Figs. 1, 2 and 3, in order to afford a secure and substantial joint between the members when in closed adjustment, despite the comparative thinness of the material from which they are produced, and at one side of one of the said members, adjacent to said outwardly swaged part 12 of member 1, as herein shown, is produced a narrow opening or slot 14, wherein is adapted to be received a bent tongue or extension 15, integrally produced upon and projecting from the rim or margin of the other member, as 2, this construction affording an inexpensive and secure hinge connection between the members, whereby they are adapted to be opened for the insertion of the twine, and closed together to properly house the same. At its side opposite to the hinge extension or tongue 15 I have also shown the member 2 provided with a similar projecting integral tongue or extension 16, which is adapted to be bent as shown at 17 in Fig. 2 to produce a shoulder adapted to be extended outside the outwardly swaged rim 12 of the member 1, and to be engaged beneath the same at a point opposite the hinge connection between the members, thereby affording an extremely simple and inexpensive spring catch for holding the members in closed adjustment, but capable of being readily disengaged from said outwardly swaged part of member 1 when it is desired to separate the members for the insertion of the twine.

As herein shown, the members 1 and 2 are similar to each other except with regard to those portions which are modified as above described at their meeting edges to afford effective connection of the thin sheet metal members, so that either one of said members may be uppermost when the parts are assembled for use, and when the twine

holder embodying my improvements is intended to be rested upon a counter, as shown in Figs. 1 and 2, I provide the same with a base member 18, which may be produced from cast metal, if desired, or may be otherwise given a weight suitable to permit of supporting the device in upright position and to prevent it from being too readily overturned. As shown in Fig. 2, such base member 18 is secured to the sheet metal body of the improved holder by means of a shank or reduced part 19 passed through the central opening 5 of the lowermost member 1, and headed at the inner surface of the same. Where this construction is employed, the central aperture 5 of the upper cup-like member 2, if present, will serve for the passage of the free end of the twine, so that the same may be readily drawn out from the improved holder.

Where the improved twine holder is to be suspended above a counter or the like, as is also customary in devices of this character, the central aperture of one member, as the member 2, shown in Fig. 6, may serve for the passage of the shank or a swivel or eye 20, by means of which the holder may be suspended from a hook or other overhead support, in order that the free end of the twine shall depend over the counter or table whereat the twine is to be used.

From the above description of my improvements, it will be seen that the improved twine holder made according to my invention is of an extremely simple and comparatively inexpensive nature, and is particularly well adapted for use by reason of its simplicity and cheapness and of the strength and durability afforded by the employment of the cup-like sheet metal members which permits the device to be made from comparatively thin and light material without liability of breakage from rough usage, and it will also be obvious from the above description that the device is susceptible of some modification, within the scope of the appended claim, without material departure from the principles and spirit of the invention, and for this reason I do not desire to be understood as limiting myself to the precise formation and arrangement of the several parts herein set forth in carrying out my invention in practice.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

A twine holder comprising two semi-spherical sections in a hinged relation when assembled, each section being formed from a blank of sheet metal having its perimetral portion provided with elongated radially disposed perforations affording a weakened portion to permit the blank being bent into semi-spherical form, one of said blanks

having its edge portion bent outwardly to
form a shoulder and having a perforation
adjacent said shoulder, the second blank
having oppositely disposed integral tongues,
5 one of said tongues to pass through the last
named perforation and surround the edge
portion of the first named blank to effect a
hinge, the second tongue affording a spring
retaining clip and bent to produce a shoul-
10 der to contact with the under surface of the
shoulder of the first named blank, the said

blank having perimetral slots therein in
alinement with the edges of the second
tongue.

In witness whereof I have hereunto 15
signed my name, in the presence of two sub-
scribing witnesses.

GEORGE E. CHATILLON.

Witnesses:

W. C. ABBOTT,
A. F. CONNETT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
