Nov. 25, 1930. C. A. MOSGROVE 1,782,828

SWINGING ARM TOWEL RACK

Filed Aug. 3, 1929

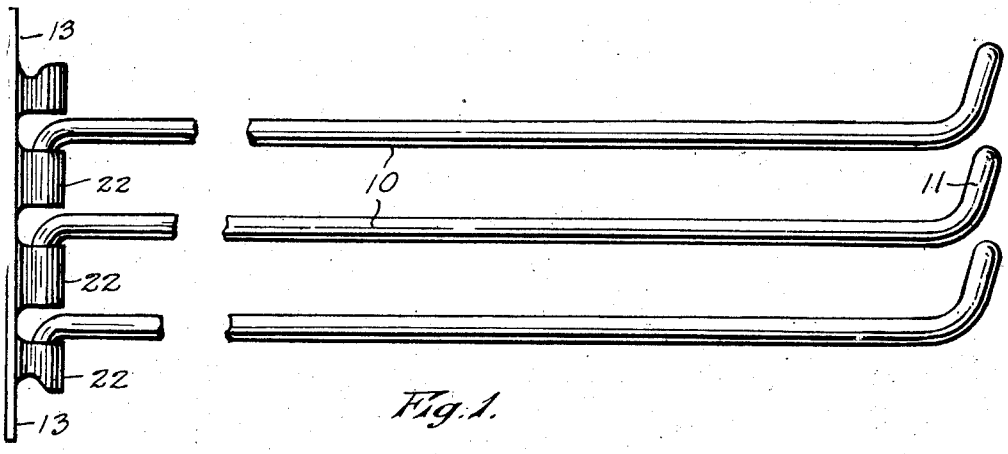


Fig. 1.

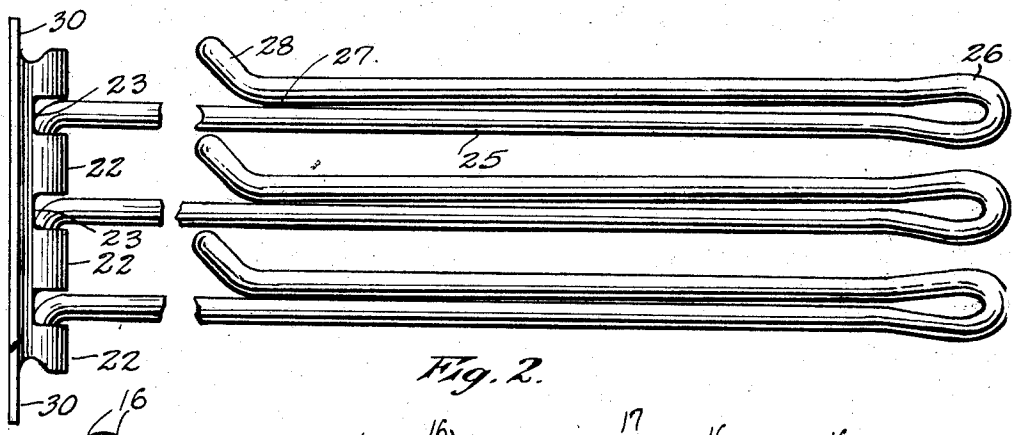


Fig. 2.

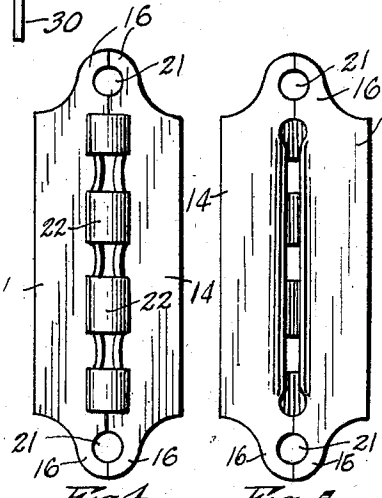


Fig. 4.

Fig. 5.

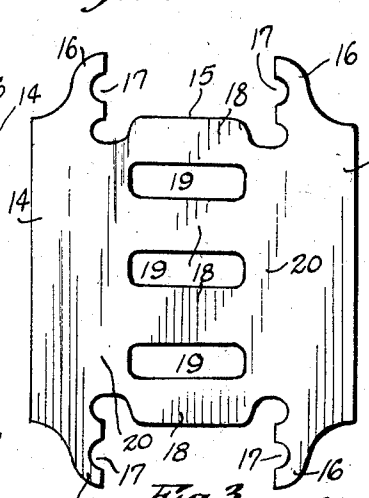


Fig. 3.

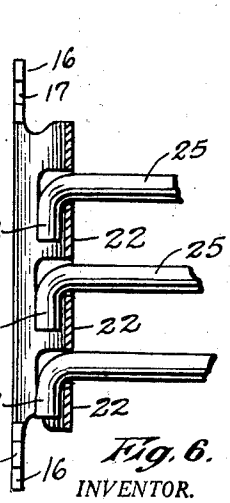


Fig. 6.

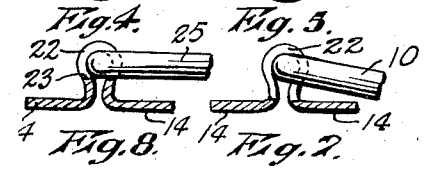


Fig. 8. Fig. 7.

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UNITED STATES PATENT OFFICE

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SWINGING-ARM TOWEL RACK

Application filed August 3, 1929. Serial No. 383,241.

This invention relates to improvements in swinging towel racks, and has for an object to provide a swinging towel rack that may have the towel arms formed of stiff wire and may have the wall plate stamped out of a piece of sheet metal, and then rolled to the proper shape.

A further object is to provide said towel arms with integral towel gripping ends.

With the foregoing and other objects in view, this invention consists in certain constructions, combinations and arrangements of parts as set forth and claimed in the following specification taken in connection with the accompanying drawing.

In this drawing:

Fig. 1 shows a side view of one embodiment of the invention.

Fig. 2 shows a similar view of another embodiment of the invention.

Fig. 3 shows a plan view of the wall plate of Fig. 1 after it has been stamped out and before it has been rolled.

Fig. 4 shows a front plan view of the wall plate after it has been rolled.

Fig. 5 is a back plan view of Fig. 4.

Fig. 6 is a vertical cross section showing how the arms are held in their bearings.

Fig. 7 is a horizontal cross section of the embodiment of Fig. 1 showing how the bearings receive and support the arms, and

Fig. 8 is a similar horizontal cross section of the embodiment of Fig. 2.

Referring first to the embodiment shown in Fig. 1, there is shown at 10 the towel arms having a curved portion 11 at one end to prevent articles from slipping off the end, while their other ends 12 are bent at right angles to be supported in bearings in a wall plate 13. This wall plate 13, as shown in Fig. 3, is formed of a single piece stamped out of sheet metal and comprises two side portions 14 and a central portion 15. The side portions 14 have wings 16 projecting above and below the central portion 15, each wing of each side portion being complementary to and facing the wing of the other side portion. Indentations 17 are formed in each wing as shown, and are preferably semi-circular in outline and are complementary to the indentations in the opposite wings. The central portion 15 comprises a plurality of joining strips 18 separated by spaces 19 which are rectangular as shown, the strips 18 being joined to each other and to the side portions 14 by the connecting portions 20 about the ends of spaces 19.

The ends 12 of arms 10 are then inserted through spaces 19 and then the central portion 15 is rolled about these inserted ends until the wings 16 have come into contact with each other, it being understood that end portions 14 remain in the same plane. The indentations 17 thus complement and align with each other to form openings 21 in the otherwise joined wings, and these openings form nail or screw receiving holes whereby the plate may be fastened to a wall. The strips 18 become looped arm supporting bearings 22 whereby the arms may be pivotally supported when the device is fastened to a wall. The slots or openings 19 are slightly wider than the thickness of the arms 10 so they can swing, but after the turned down portions 12 are enclosed by the loops 22 they are securely held so the rods cannot separate from the wall plates. It will also be noted that the loops 22 substantially entirely surround the portions 12 to form a complete bearing for them and to hold the rods securely in the horizontal position.

In Figs. 2 and 8, the towel arm 25 is longer than the arm 10, and this extra length is bent back upon the arm as at 26 to approach its body 25 as at 27, and then is slightly curved away again at its extreme end 28. In the back plate 30 supporting the towel arms 25, the connecting portion 20 may form limit stops 23 to prevent the arms swinging against the wall on which the device is mounted, and the blank from which this plate 30 is formed differs from that shown in Fig. 3 by merely having the joining strips forming the central portion somewhat shorter. As is obvious, the plate 13 formed from the blank of Fig. 3 may be used with arms 25, and vice versa, the arms 10 may be used with the wall plate 30. In other words the stop portions 23 may or may not be used in either wall plate or with either type of arm.

In operation, the plate 13 or 30 is fastened to a wall so that the ends 11 of arm 10 or 28 of arm 25 project upwardly, and the device is ready for use. When arm 10 is used, the end 11 serves to prevent the articles placed thereon from sliding off the end of the arm. When arm 25 is used, the curved end 28 serves to guide the towel or other article under portion 27 which yields to permit the towel to slide thereunder, and then serves to grip it positively against slipping out under its own weight.

Having thus set forth and described the invention, what is claimed is:

1. A towel rack comprising a plurality of swinging towel supporting arms and a wall plate for pivotally supporting said arms, said wall plate comprising a piece of stamped sheet metal having a plurality of spaced joining strips forming the central portion thereof, and a pair of spaced complementary semi-circular indentations above and below said strips in the side portions, said piece having its central portion rolled outwardly of the plane of the side portions so that said spaced strips form arm supporting bearings and said complementary indentations together form receiving holes for securing means.

2. A towel rack comprising a wall plate and a plurality of towel supporting arms pivoted thereto, said wall plate comprising a central portion and two side portions, said side portions each comprising a flat plane portion having a pair of wings projecting above and below said central portion, each wing having a complementary indentation therein opposite a similar indentation in the opposite wing on the other side portion, said central portion comprising a plurality of joining strips on opposite sides of openings, said joining strips being rolled outwardly of the plane of the side portions, causing said wings to contact and said complementary indentations to form nail or screw receiving holes, and causing said strips to form looped supporting bearings for towel arms.

3. A towel rack comprising a wall plate and a plurality of towel supporting arms pivoted thereto, said arms being bent back upon themselves, said bent portions being yieldable and forming towel grips, said wall plate comprising a central portion and two side portions, said side portions each comprising a flat plane portion having a pair of wings projecting above and below said central portion, each wing having a complementary indentation therein opposite a similar indentation in the opposite wing on the other side portion, said central portions comprising a plurality of joining strips on opposite sides of openings, said joining strips being rolled outwardly of the plane of the side portions, causing said wings to contact and said complementary indentations to form nail or screw receiving holes, and causing said strips to form looped supporting bearings for towel arms.

4. A towel rack comprising a wall plate and a plurality of towel supporting arms pivoted thereto, said wall plate comprising a central portion and two side portions, said side portions each comprising a flat plane portion having a pair of wings projecting above and below said central portion, each wing having a complementary indentation therein opposite a similar indentation in the opposite wing on the other side portion, said central portions comprising a plurality of joining strips on opposite sides of openings, said joining strips and the connecting portions about the ends of said spaces being rolled outwardly of the plane of the side portions, causing said wings to contact and said complementary indentations to form nail or screw receiving holes, and causing said strips to form looped supporting bearings for towel arms and said connecting portions to form stops for limiting the swinging of said arms.

5. In a towel rack, a well plate to be secured to a wall, and an arm pivoted to said plate, the arm comprising a rod pivoted at one end in the plate and folded over upon itself at its opposite end to lie above and overlap the body portion to form a yieldable portion to clamp an article to the lower portion, the free and of the upper portion being extended upwardly to guide an article in between the two portions.

6. A towel rack comprising a plurality of swinging towel supporting arms and a wall plate for pivotally supporting said arms, said wall plate comprising a piece of stamped sheet metal having a plurality of spaced joining strips forming the central portion thereof, said piece having its central portion rolled outwardly of the plane of the side portions so that said spaced strips form arm supporting bearings.

7. A towel rack comprising a wall plate and a plurality of towel supporting arms pivoted thereto, said wall plate comprising a central portion and two side portions, said portions each comprising a flat plane portion having a pair of wings projecting above and below said central portion, said central portion comprising a plurality of joining strips on opposite sides of openings, said joining strips being rolled outwardly of the plane of the side portions causing said wings to contact and causing said strips to form looped supporting bearings for towel arms.

8. A towel rack comprising a wall plate and a plurality of towel supporting arms pivoted thereto, said wall plate comprising a central portion and two side portions, said side portions each comprising a flat plane portion having a pair of wings projecting above and below said central portion, said central portion comprising a plurality of joining

strips on opposite sides of openings, said joining strips and the connecting portions about the ends of said openings being rolled outwardly of the plane of the side portions causing said wings to contact and causing said strips to form looped supporting bearings for towel arms and said connecting portions to form stops for limiting the swinging of said arms.

In testimony whereof I affix my signature.

CHARLES A. MOSGROVE.