Jan. 11, 1927. 1,613,828

G. F. HONOLD

FIFTH WHEEL

Filed Nov. 27, 1922

Fig. 1.

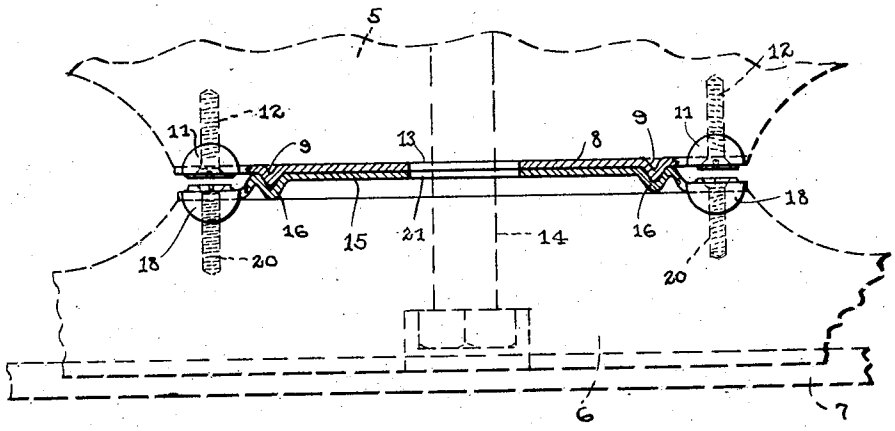


Fig. 2.

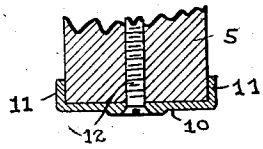


Fig. 3.

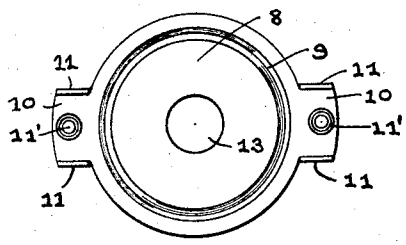
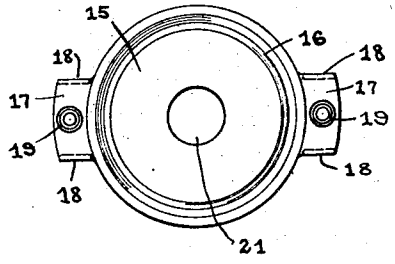


Fig. 4.



INVENTOR.
Gottlob F. Honold.
BY
Morsell & Keeney.
ATTORNEYS.

Patented Jan. 11, 1927. 1,613,828

UNITED STATES PATENT OFFICE.

GOTTLOB F. HONOLD, OF SHEBOYGAN, WISCONSIN, ASSIGNOR TO HONOLD MANUFACTURING COMPANY, OF SHEBOYGAN, WISCONSIN, A CORPORATION OF WISCONSIN.

FIFTH WHEEL.

Application filed November 27, 1922. Serial No. 603,600.

This invention relates to fifth wheels, and more especially to a device of this character adapted for use with toy wagons, and has for one of its objects to provide a fifth wheel which will be simple in construction, comparatively inexpensive to manufacture, and more efficient in use than those which have been heretofore proposed.

Fifth wheels as now ordinarily constructed necessitate the upper and lower bolsters of the wagon being cut out or recessed to accommodate the upper and lower members of the fifth wheel construction. Such cutting or recessing materially decreases the strength of the bolsters, as well as increases the time and cost involved in the manufacture of such wagons.

It is therefore an important object of the present invention to provide a fifth wheel which may be quickly and efficiently stamped from sheet metal, and which will not necessitate the cutting of the bolsters, and on the other hand will serve to reinforce and strengthen the same, thereby preventing splitting of the said bolsters under extraordinary strains.

With the above and other objects in view which will appear as the description proceeds, the invention consists in the novel details of construction and combinations of parts more fully hereinafter disclosed and particularly pointed out in the appended claims.

In the accompanying drawing in which like numerals designate like parts in all the views;

Figure 1 is a central vertical sectional view, partly in elevation, of a fifth wheel constructed in accordance with the present invention, the bolsters of the wagon, as well as the king bolt and a portion of the front axle being shown in dotted lines;

Fig. 2 is a fragmentary cross-sectional view through one of the ends of the upper fifth wheel member, showing the method of attachment of the same to the bolster;

Fig. 3 is a top plan view of the upper fifth wheel member illustrated in Fig. 1; and

Fig. 4 is a similar view of the lower fifth wheel member.

In the said drawing the numerals 5 and 6 designate, respectively, the upper and lower bolsters of a toy or other wagon, the latter of which may be secured in any suitable manner to the front axle 7, as indicated in Fig. 1. The upper fifth wheel member comprises a disc or plate 8 of sheet metal, shaped substantially as shown in Figs. 1 and 3, and provided with the substantially V-shaped annular groove or depression 9, as well as with the pair of diametrically opposed extensions 10.

The said extensions are provided with the ears 11, bent at substantially right angles to the plate or disc 8, which ears are adapted to embrace the sides of the bolster 5 to prevent rotary movement of the fifth wheel member, as well as to reinforce and support the said bolster. The said extensions 10 are further provided with the holes or apertures 11′, through which suitable fastening means, such as screws 12, may be introduced for the purpose of securing the fifth wheel member to the bolster. The said disc 8 is further provided with a central aperture or hole 13 to accommodate a king bolt 14, which retains the parts in their assembled positions in the well known manner.

The lower fifth wheel member, as is clearly shown in Figs. 1 and 4, comprises a companion plate or disc 15, of substantially the same shape and dimensions as the upper member 8, which is likewise provided with a depression 16 and with the diametrically opposed extensions 17, provided with the angularly bent ears 18, adapted to engage the sides of the lower bolster 6, as will be readily apparent. The said extensions 17 are also provided with suitable holes 19 to accommodate screws or other suitable fastenings 20, and the said plate 15 is provided with a centrally disposed hole 21 adapted to register with the hole 13 of the upper plate, through which passes the king bolt 14.

As will be clear from Fig. 1, the parts are assembled so as to bring the rib 9 of the upper member 8 in engagement with the depression 16 of the lower member, thereby forming an inexpensive and efficient bearing which prevents all lateral movement of the two bolsters relative to one another. Furthermore, owing to the peculiar construction of the fifth wheel members, it is entirely unnecessary to cut or recess the bolsters of the wagon to accommodate either of the fifth wheel members, whereby their strength is in nowise impaired or lessened. In fact, by employing the present construction of fifth

wheels an exceedingly strong toy wagon will result.

It is obvious that those skilled in the art may vary the details of construction as well as the arrangement of parts without departing from the spirit of the invention, and therefore it is not wished to be limited to the above disclosure except as may be required by the accompanying claims.

What is claimed is:

1. A fifth wheel construction for toy wagons, comprising a pair of companion stamped sheet metal disc members, one provided with a V-shaped annular groove on its upper face and the other with a V-shaped annular rib on its lower face engaging said groove, each of said disc members being provided with a pair of diametrically opposed vertically spaced extensions having apertures to accommodate fastening means, said extensions being adapted to engage the faces of the bolsters, and being provided with angularly disposed ears adapted to engage and reinforce the sides of said bolsters.

2. In a toy wagon having an axle, a pair of superposed relatively movable bolsters, and a king bolt pivotally securing said bolsters together, the combination therewith of a fifth wheel interposed between said bolsters, comprising a pair of companion stamped sheet metal disc members, one provided with a V-shaped annular groove on its upper face and the other with a V-shaped annular rib on its lower face engaging said groove, each of said members being provided with a pair of diametrically opposed vertically spaced extensions engaging and secured to the faces of said bolsters, and having angularly disposed ears engaging and supporting the sides thereof, said members permitting of unlimited horizontal pivotal movement of the lower bolster.

In testimony whereof, I affix my signature.

GOTTLOB F. HONOLD.