

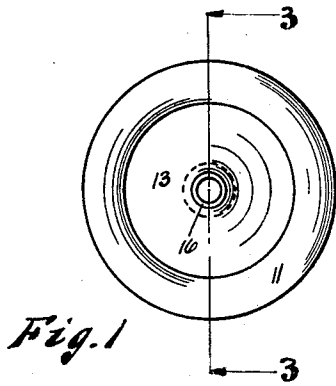
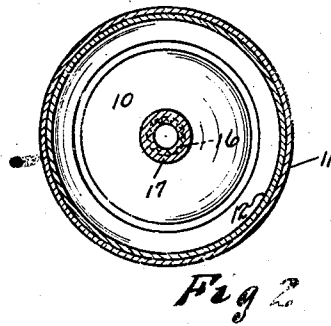
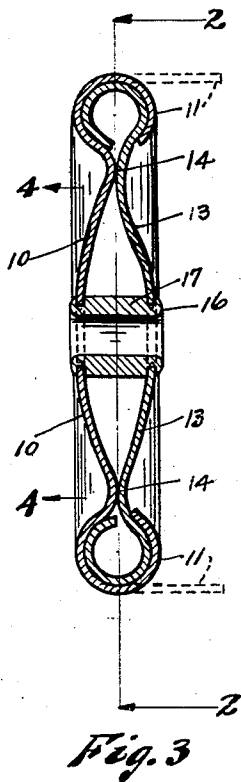
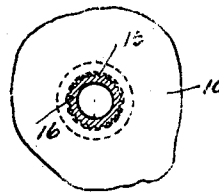
Jan. 8, 1924.

T. W. WOOD

1,480,359

WHEEL

Original Filed June 6, 1921



Witnesses:
E. E. Moody
J. D. Stowe

Inventor
Thomas W. Wood
By *Joshua B. Hottel*
His Attorney

Patented Jan. 8, 1924.

1,480,359

UNITED STATES PATENT OFFICE.

THOMAS W. WOOD, OF CHICAGO, ILLINOIS.

WHEEL.

Application filed June 6, 1921, Serial No. 475,244. Renewed November 30, 1923.

To all whom it may concern:

Be it known that I, THOMAS W. WOOD, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Wheels, of which the following is a specification.

My invention relates to improvements in wheels, and has for its object the provision of a new disc metal wheel constructed with a double rim which is very attractive in appearance and strong and durable in use.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1 is a side elevation of my improved wheel;

Fig. 2 is a vertical section on line 2—2 of Fig. 3;

Fig. 3 is a vertical cross section on line 3—3 of Fig. 1; and

Fig. 4 is a fragmentary detail taken substantially on line 4—4 of Fig. 3, showing the ragged connection between the bushing and the discs.

The wheel is constructed from two metal discs pressed into the desired shape and upon a bushing by a series of press operations with a series of dies. The finished wheel comprises a metal disc 10 provided with a curved or tubular edge portion 11 which embraces the similarly curved edge portion 12 of a companion disc 13, the combined curved portions of which form a double or compound tubular rim. The discs bear against each other at the inner faces of their webs, as at 14, immediately inward of the tubular portions 11 and 12, and are gradually curved or rounded outward at the central portion, thus forming a reverse curve greatly adding to the appearance of the wheel. Openings 15 with ragged edges are provided at the centers of the discs into which the contracted ends or sleeves 16 of the bushing 17 are placed and driven by upsetting the outer ends of said sleeves therein, thereby preventing the bushings from turning in the discs. The bushings may be made from brass or any suitable metal and are provided with a polished

central bearing portion, but the bushings may be provided with anti-friction bearings if desired.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of the construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A wheel comprising a bushing and metal discs having edges formed into a compound tubular rim, engaging web portions extending from said rim portions, and central web portions curved outwardly from said engaging portions to the bushing, which is mounted by having its ends upset in ragged openings in said central portions.

2. A wheel comprising a bushing and a plurality of metal discs having tubular edges, one of which surrounds the other, forming a compound tubular rim, engaging web portions extending from said rim portions, central web portions curved outwardly from said engaging portions and having openings with irregular edges, and a bushing which has its ends upset in the irregular edges of said openings.

3. A wheel comprising inter-engaging metal discs having central openings provided with ragged edges, and a bushing rigidly mounted therein by having its ends driven into the ragged edges of said central openings.

4. A wheel comprising a plurality of engaging metal discs having openings provided with ragged edges, and a bushing rigidly mounted on said discs, said bushing having contracted end portions which are upset in the ragged central openings in said discs.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses:

THOMAS W. WOOD.

Witnesses:

CLARENCE E. THREEDY,
FREDA C. APPLETON.