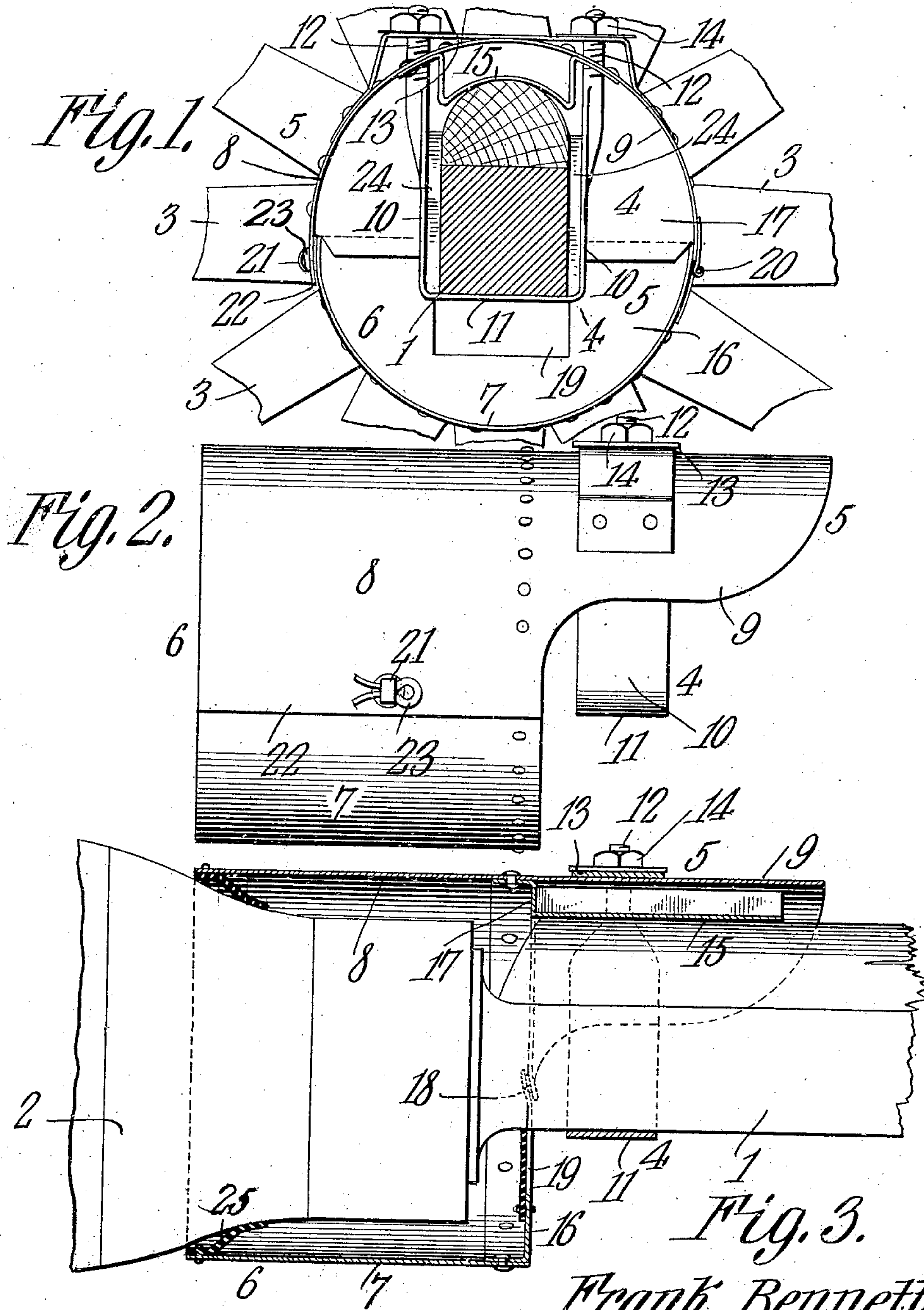


No. 874,927.

PATENTED DEC. 31, 1907.

F. BENNETT.
SAND BAND FOR VEHICLES.
APPLICATION FILED MAY 1, 1907.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANK BENNETT, OF MINERAL WELLS, TEXAS.

SAND-BAND FOR VEHICLES.

No. 874,927.

Specification of Letters Patent.

Patented Dec. 31, 1907.

Application filed May 1, 1907. Serial No. 371,319.

To all whom it may concern:

Be it known that I, FRANK BENNETT, a citizen of the United States, residing at Mineral Wells, in the county of Palo Pinto and State of Texas, have invented a new and useful Sand-Band for Vehicles, of which the following is a specification.

This invention relates to a sand band for vehicles, a device attached to the axle and extending over the inner end of the hub to prevent sand and dirt entering the axle bearing.

The object of the invention is to provide a simple, cheap and secure cover for the inner end of a wheel hub to prevent sand and dirt, dropping from the rim and spokes of the wheel, from falling on the hub and thence working its way into the axle bearing.

A further object of the invention is to extend the band over the axle for some distance beyond the hub and to form the band surrounding the hub into two suitably connected parts.

With these and other objects in view the invention consists of certain novel combinations, constructions and arrangements of parts hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of the invention applied, the axle being shown in section. Fig. 2 is a view in elevation of the sand band. Fig. 3 is a longitudinal sectional view of the invention showing it in place and projecting over the axle and hub of a wheel.

Similar numerals of reference indicate the same parts on all the figures.

A vehicle axle 1 carries at its end a hub 2 from which radiate spokes 3, all of the usual form.

Attached to the axle 1 a short distance from the hub by a clip 4 is the sand band 5 comprising a cylindrical portion 6 divided diametrically on a horizontal line into two parts 7 and 8 which embrace the hub 2, and a cover or overhang 9 which extends over the axle 2. That part of the clip 4 which lies against the bottom and close to the side of the axle is thin and broad, and is formed with parallel vertical sides 10 and a flat bottom 11 perpendicular to the sides. A round threaded stem 12 projects upwardly from each side 10 of the clip and extends through the overhang 9 and a plate 13 fastened to the top of the overhang. Nuts 14 screwed on the stems 12 bear on the plate 13 and draw

the clip 4 tightly against the under side of the axle, firmly securing the sand band in place. A curved plate 15 fastened to the under side of the overhang at its top serves as an abutment for the top of the axle 1.

Between the cylindrical portion 6 of the sand band and the overhang 9 are two vertical partition plates 16 and 17, the former plate 16 being riveted or otherwise secured to the lower half 7 of the sand band and the plate 17 similarly attached to the upper half 8. The edges of these plates overlap and are provided with packing 18, such as rubber. Through the center of the plates is an elongated slot 19 for the axle 1 to pass through.

The sections 7 and 8 of the cylindrical part of the sand band are connected on one side by hinges 20 and on the other side by a loop or ring 21 secured to the lower half 7, projecting through a slot in the overlapping end 22 of the upper half 8 and temporarily held together by a pin 23.

The sand band is secured in place on the axle 1 by withdrawing the pin 23 and opening the cylindrical part 6 and also removing the clip 4 by unscrewing the nuts 14. The sand band is then placed over the axle and around the hub, and the two parts 7 and 8 connected by the loop 21 and pin 23. The clip 4 is then passed up under the axle 1, until its bottom 11 strikes the axle when the nuts 14 are again placed on the stems 12 and, after adjusting the sand band, screwed tightly in place. Should the clip be wider than the axle, filling blocks 24 will be placed between the axle and the sides 10 of the clip. A sand band constructed as above described is held firmly in place and does not rattle as all movable or separable parts are suitably packed as at 18. Similar packing will be placed between the overlapping end 22 of the upper half of the sand band and the lower half 7. The open outer end of the sand band is brought as close to the hub 2 as is possible without interfering with each other on a rough road and a packing ring 25 secured within the band as shown. Whatever dirt collects in the sand band can be quickly removed by dropping the hinged section 7.

Having thus described the invention what is claimed is:

1. A sand band for vehicles comprising a fixed upper portion, an under portion movably connected thereto, said portions being disposed to surround a hub, a laterally dis-

placed portion integral and concentric with the upper portion and constituting an overhang, and means connected to the overhang for securing the band to an axle.

5 2. A sand band for vehicles comprising a fixed upper portion, an under portion movably connected thereto, said portions being disposed to surround a hub, an extension integral with the upper portion of the band
10 and concentric therewith, an abutment within the overhang, and means engaging the overhang for clamping the abutment upon an axle.

3. A sand band for vehicles, comprising a
15 two part cylindrical portion, the upper half extending inwardly to form an overhang, the lower half hinged to the upper half at one side and provided with a temporary securing means on the other side, a partition attached
20 to the inner end of each part of said cylindrical portion and adapted to overlap, a registering slot being formed in each partition, and securing means connected with the overhang.

25 4. A sand band for vehicles comprising a

cylindrical portion divided horizontally, hinged together at one side and having a separable fastening at the other side, a semi-circular portion connected to the inner end of each of said divided portions and arranged to
30 overlap and a registering slot in each partition, an overhang continuous with said upper portion of the sand band and a clip connecting the sand band to the axle.

5. A sand band for vehicles comprising
35 a horizontally divided cylindrical portion hinged together, a divided partition at the inner end of said cylindrical portion, an overhang forming part of said sand band, a bearing plate within the overhang, a plate on top
40 of the overhang and a fastening means cooperating with said plates for securing the overhang to an axle.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature
45 in the presence of two witnesses.

FRANK BENNETT.

Witnesses:

I. MOTT,

F. E. BALLARD.