J. F. WISE.

Sand-Band for Vehicles.

No. 220,458. Patented Oct. 7, 1879.

Fig. 1.

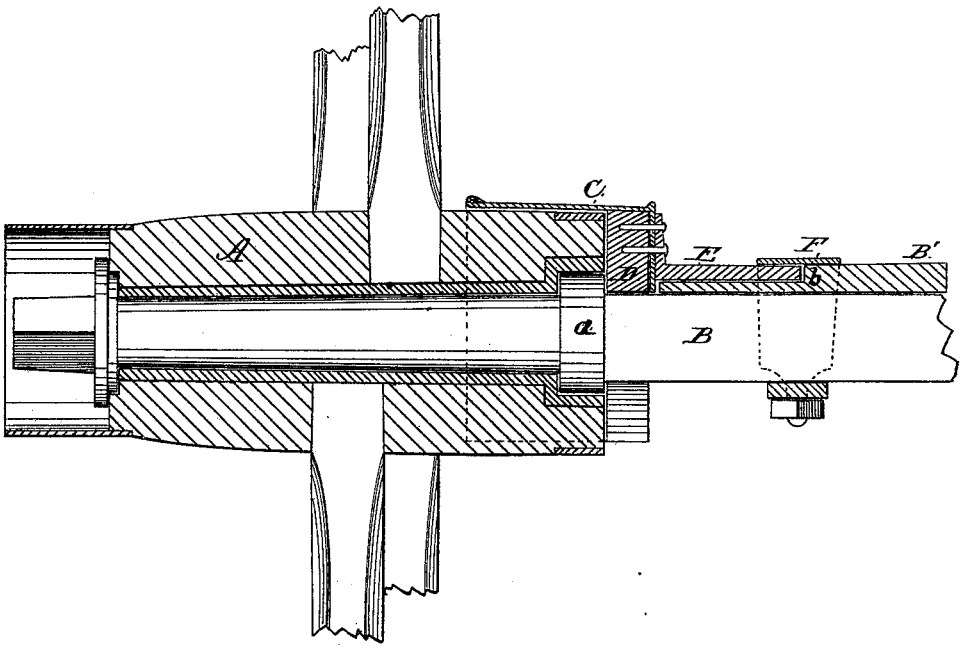
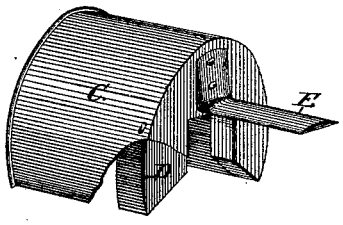


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES F. WISE, OF WADLEY, GEORGIA.

IMPROVEMENT IN SAND-BANDS FOR VEHICLES.

Specification forming part of Letters Patent No. **220,458**, dated October 7, 1879; application filed August 7, 1879.

To all whom it may concern:

Be it known that I, JAMES FREDRICK WISE, of Wadley, in the county of Jefferson and State of Georgia, have invented a new and Improved Sand-Band for Vehicle-Wheels; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical longitudinal section through the hub and sand-band, showing the latter applied. Fig. 2 is a perspective view of the sand-band detached.

My invention relates to an improved sand-band for the inner end of the hub of a vehicle for protecting the collar, axle-arm, and box from sand and dirt, which are liable to get in between these parts and wear them.

The invention consists in combining a sand-band having a right-angular shank with a shouldered or recessed axle and a clip in such a manner that the sand-band shall be firmly held between the shoulder on the axle and the collar of the axle-journal, and the joint formed between the said axle and the sand-band shank shall be covered and concealed by the clip which secures the latter.

In the drawings, A represents the hub, and B the axle, of any ordinary carriage or vehicle, while C is the sand-band applied thereto. This sand-band is in the nature of a hood, inclosing the upper inner portion of the hub, which hood is made of sheet metal, suitably painted, polished, or plated, and is attached to a solid wooden or iron head, D, which fits closely up to the inner end of the hub and the collar *a* of the axle. The lower side of the band and its head are cut away with an angular slot, so that a discharge-opening is left at the bottom, from which is discharged any grease which may be scraped off the inner end of the hub.

To hold the sand-band in place, a right-angular piece of metal, E, is secured to the same, and has its horizontal shank projecting parallel with the axle, so as to be clamped by the same clip, F, that secures the wooden portion B′ of the axle to the metal portion B. In fitting the said shank in place, the wood of the portion B′ is recessed so as to leave a shoulder, *b*, against which the end of the shank abuts, and the joint formed is covered by the clip.

This method of adjusting and securing the sand-band is simple and easy, and the parts, when so adjusted, are durable and present a neat appearance.

As the device is held from moving in one direction by the shoulder under the clip, and in the other direction by the collar *a* of the axle, and is also clamped by the clip, it will be seen that it can never become detached or deranged.

The wooden block or head, by fitting snugly against the hub, permits very little grease to escape, and cuts off and dislodges what does escape, without allowing it to become hard and caked.

While these advantages are secured, it will be seen, also, that all grit and dirt are kept from the wearing parts of the bearing.

Having thus described my invention, what I claim as new is—

The combination, with the axle having a collar, *c*, and a recess and shoulder, *b*, of the sand-band having right-angular shank E, fitted between the collar and shoulder, and a clip, F, arranged, as described, to both secure the shank of the sand-band and cover its joint with the axle, as described.

JAMES FREDRICK WISE.

Witnesses:

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