(No Model.)

E. P. POINDEXTER.

SAND BAND FOR VEHICLE WHEELS.

No. 302,637. Patented July 29, 1884.

Fig. 1.

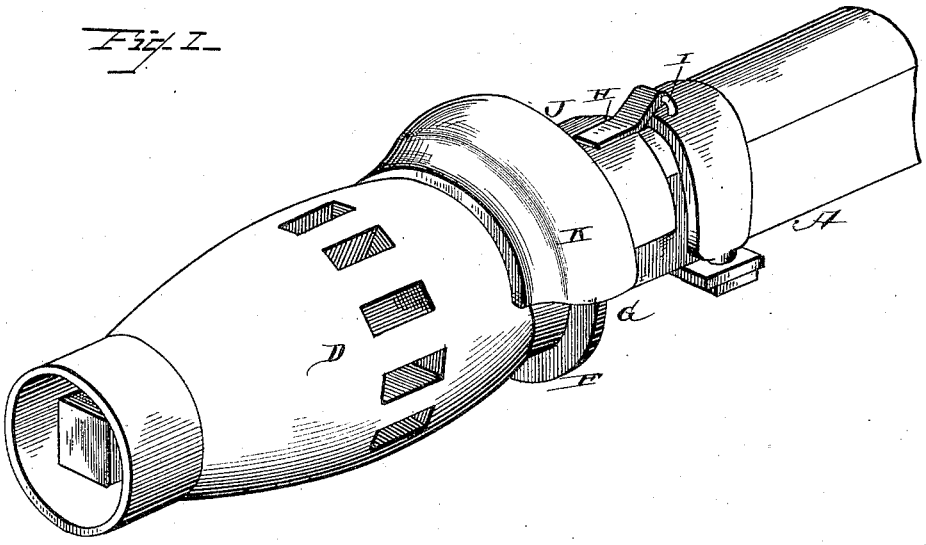


Fig. 2.

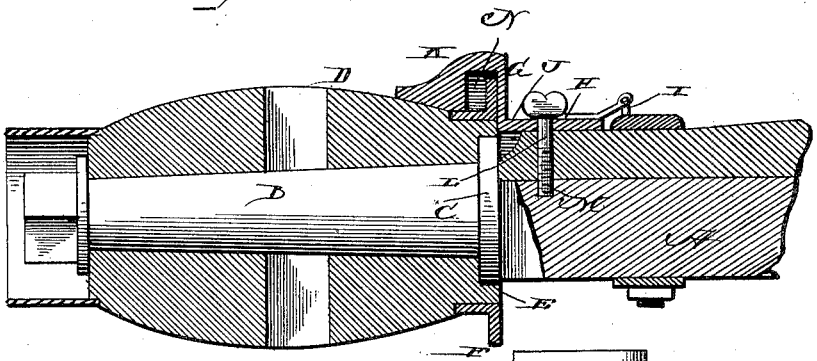
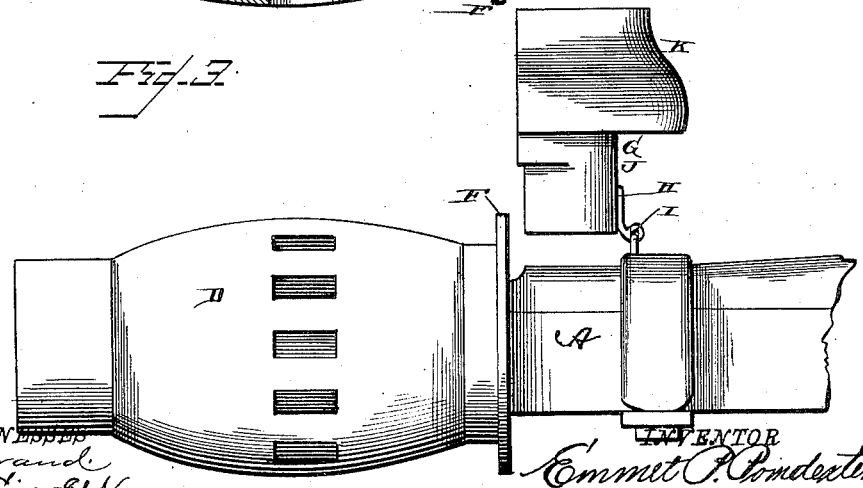


Fig. 3.



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SAND-BAND FOR VEHICLE-WHEELS.

SPECIFICATION forming part of Letters Patent No. 302,637, dated July 29, 1884.

Application filed March 22, 1884. (No model.)

To all whom it may concern:

Be it known that I, EMMET P. POINDEXTER, a citizen of the United States, residing at Woburn, in the county of Bond and State of Illinois, have invented a new and useful Sand-Band and Protector for Vehicles, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to sand-bands and protectors for vehicles; and it has for its object to provide a simple, durable, inexpensive, and efficient device for protecting the hubs of the wheels, and which will prevent the admission of mud, sand, and other foreign substances to the axle.

With this object in view, the said invention consists in certain details of construction and combination of parts as hereinafter set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view illustrating the application of my improved sand-band and protector to a vehicle-axle. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a side view, the hinged cap being raised.

Like letters refer to corresponding parts in the several figures.

Referring to the drawings, A designates the axle, which may be constructed in any suitable manner, the spindle B of said axle being screw-threaded at its outer end to receive a nut, as shown, and having an annular collar, C, formed at the inner end of the same. The hub D is also of the usual form, and is formed at its inner end with an annular recess, E, within which the collar C fits, an annular flange, F, being formed around the inner end of the hub and projecting outward from the same.

G designates a dust-excluding cap, provided at its inner end with a plate, H, attached thereto and pivoted or hinged in a bail, I, secured to and projecting from the axle. The said cap G consists of a main portion, J, shaped on its under face to conform to the axle, and a bulged portion, K, at right angles to the main portion, said bulged portion fitting over the inner end of the hub. A recess or annular groove, N, is formed in the under face of the bulged portion K, the flange F fitting in the groove or recess, as shown, so that when the hub turns the flange will turn likewise within the groove or recess. The lower edge of the main portion J, at the point of junction with the bulged portion K, fits around and against the collar C on the axle, so as to prevent the admission of dirt, sand, or other foreign substances to the spindle of the axle. A set-screw, L, passes through an opening in the main portion J, into a metallic socket, M, in the upper face of the axle, said screw serving to retain the hinged cap in the lowered position, and being readily loosened when it is desired to raise the cap.

A clip or other suitable means may be employed to hold the bail or band I to the axle and suspend it in proper position.

The cap G should conform to the general shape of the axle and hub, and extend a sufficient distance around the same, so as to prevent the admission of mud or other foreign substances to the spindle of the axle. If it should be found desirable, the dust-excluding cap G may be arranged to fit entirely around the hub and axle at the inner end, and formed in two sections, each of which will be held in place by the set-screw L or by a clip.

The operation of my invention will be readily understood from the foregoing description, taken in connection with the annexed drawings. The cap G is applied to the axle, as shown, the bulged portion K fitting over the hub at the inner end, and preventing the admission of foreign substances to the spindle B. It will be readily seen that particles of dust, sand, and other matter will accumulate in the groove or recess N, and can be removed by loosening the set-screw L, and raising the cap to expose the groove or recess to view. It will also be seen that the set-screw may be loosened to permit the raising of the hinged cap when it is desired to grease the axle.

My improved sand or dust excluding cap is simple in its construction, durable and efficient in use, inexpensive to manufacture, and will prove of great utility for the purposes intended.

Other advantages of my invention will be apparent, but they need not be particularly pointed out here, since practical use will demonstrate all the points in its favor.

Changes in the form and construction of the parts may be made without departing from the spirit or scope of my invention.

Having described my invention, I claim as new—

1. In a sand-band, the combination, with the

axle and hub, of the dust-excluding cap hinged to the axle and projecting over the inner end of the hub, and means, substantially as described, for holding the cap in position, as set forth.

2. In a sand-band and protector for vehicles, the combination, with the axle-spindle and hub, of a dust-excluding cap hinged to the axle and projecting over the inner end of the hub, as set forth.

3. In a sand-band and protector for vehicles, the combination, with the axle-spindle and hub, of the dust-excluding cap, comprising two portions, a main portion fitting around the axle and hinged to the same and a bulged portion projecting over the inner end of the hub, as set forth.

4. In a sand-band and protector, the combination, with the axle and hub, the latter having an annular flange projecting outwardly therefrom, of a dust-excluding cap hinged or pivoted to the axle and projecting over the inner end of the hub, and a recess or groove in the said cap in which the annular flange of the hub fits, as set forth.

5. In a sand-band and protector for vehicles, the combination, with the axle formed with a collar at its inner portion, and the hub having a corresponding recess to receive the collar, and an annular flange projecting outwardly from the inner end of the hub, of the dust-excluding cap hinged to a bail or band fitted to the axle, and projecting over and around the inner end of the hub, a groove or recess being formed in the said cap to receive the flange of the hub, as set forth.

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

EMMET PATTERSON POINDEXTER.

Witnesses:
JOSEPH G. ISLEY,
MILLARD E. WATSON.