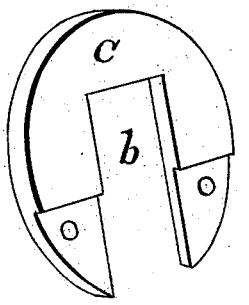
W. STUART & D. J. PARKER.
Sand-Guard for Vehicle-Wheels.

No. 199,668. Patented Jan. 29, 1878.

Fig. 1.



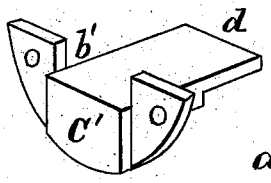




Fig. 2.

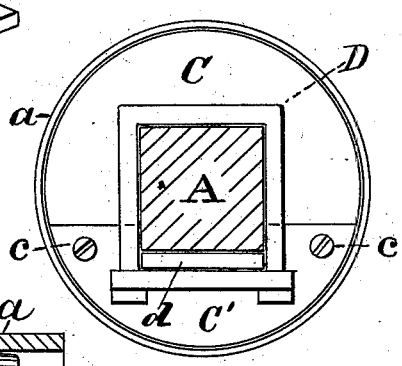



Fig. 3.

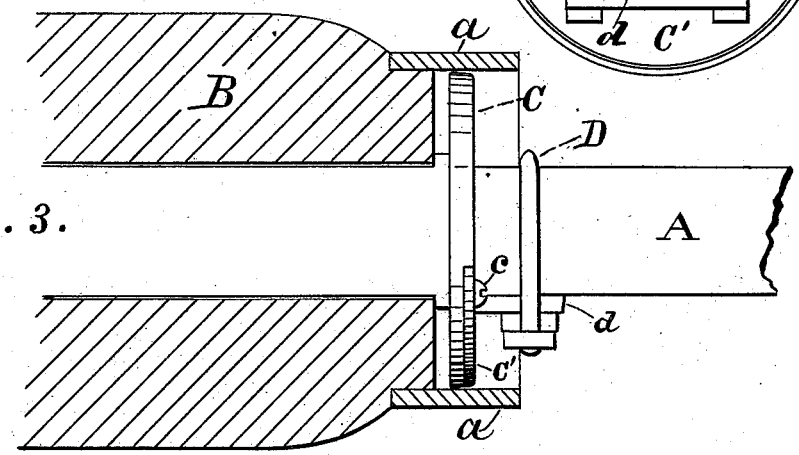
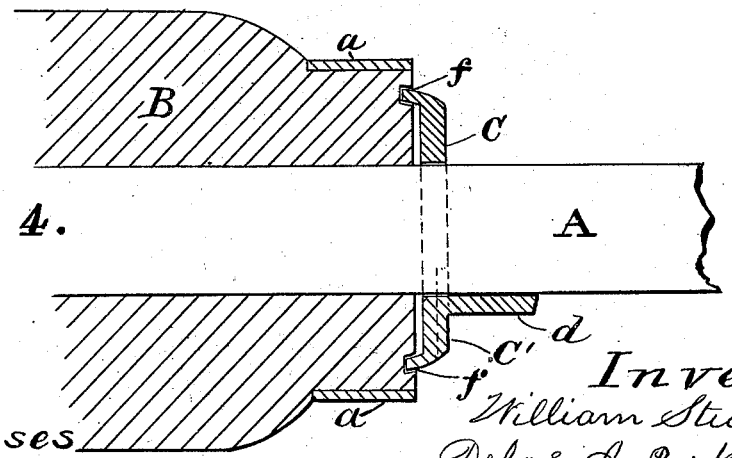



Fig. 4.




Witnesses
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# UNITED STATES PATENT OFFICE.

WILLIAM STUART, OF FULTON, AND DELOS J. PARKER, OF GARDEN PLAIN, ILLINOIS.

## IMPROVEMENT IN SAND-GUARDS FOR VEHICLE-WHEELS.

Specification forming part of Letters Patent No. **199,668**, dated January 29, 1878; application filed November 24, 1877.

*To all whom it may concern:*

Be it known that we, WILLIAM STUART, of Fulton, and DELOS JAY PARKER, of Garden Plain, in the county of Whitesides and State of Illinois, have invented certain new and useful Improvements in Dust and Sand Guards for Vehicle-Wheels; and we do hereby declare that the following is a full, clear, and exact description of our invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a perspective view of the two parts of the guard detached; Fig. 2, a transverse sectional view, showing the inner end of the hub with the guard attached; Fig. 3, a longitudinal vertical section, showing the guard attached within the projecting sand-band of the hub; and Fig. 4, a longitudinal vertical section, showing a guard having a flange projecting into a groove in the end of the hub having no projecting sand-band.

Our invention relates to devices for preventing sand or dust from getting into the inner ends of the hubs of carriages; and it consists of a disk in two parts, halved together, and provided with slots to fit over the axle-tree, and a lug for holding the guard in place by means of a clip.

For use with hubs having projecting sand-bands the guards are constructed to be adjusted within the bands; but for hubs not having projecting sand-bands the guard is provided with a flange to extend into a groove in the end of the hub, as hereinafter more fully described.

In the drawings, A is an axle-tree, and B a hub, having a projecting sand-band, *a*. C C′ represent the two parts of the guard-disk, having slots *b b′* to fit over the axle-tree. The two parts of the guard are halved and attached together by screws *c c*, forming a continuous disk, as shown in Fig. 2 of the drawings. The part C′ is provided with a lug, *d*, extending inward under the axle-tree, to receive the clip D for holding the guard in place.

The guard constructed as described above is adjusted on the axle-tree within the projecting sand-band, as shown in Figs. 2 and 3 of the drawings.

For hubs not having projecting sand-bands the guard is constructed in the same manner, and provided with a flange, *f*, to extend into groove in the end of the hub, as shown in Fig. 4, which protects the axle and box from sand, dust, &c. The edges of the disks are beveled slightly, as shown in the drawings, to incline the dirt away from the hub.

We claim as new and desire to secure by Letters Patent—

1. The sand-guard constructed in two parts, each having slots to receive the axle, and halved and fastened together, forming one continuous guard, and provided with a lug to receive the fastening-clip, substantially as described.

2. The sand-guard constructed in the two parts C C′, each having a slot to receive the axle, and halved and fastened together, forming one continuous guard, adjusted within the projecting band *a* of the hub, and provided with a lug, *d*, to receive the fastening-clip D, substantially as and for the purposes described.

In testimony that we claim the foregoing as our own invention we affix our signatures hereto in presence of two witnesses.

WILLIAM STUART.
DELOS JAY PARKER.

Witnesses:
W. W. SANBORN,
FRANK P. LEFFINGWELL.