(No Model.)

# S. WILSON.

## SAND BAND.

No. 490,731. Patented Jan. 31, 1893.

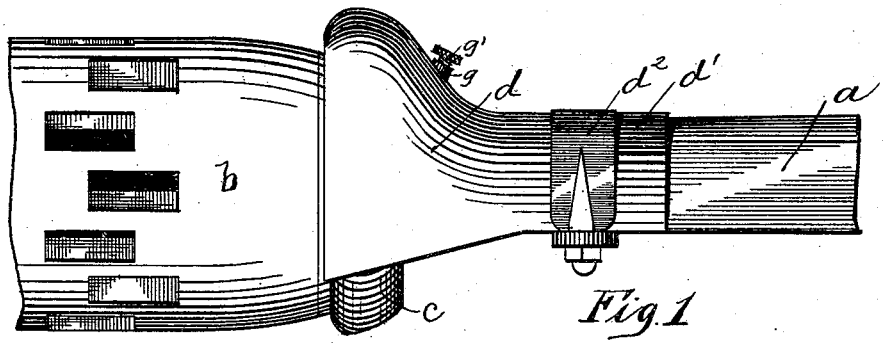


Fig. 1

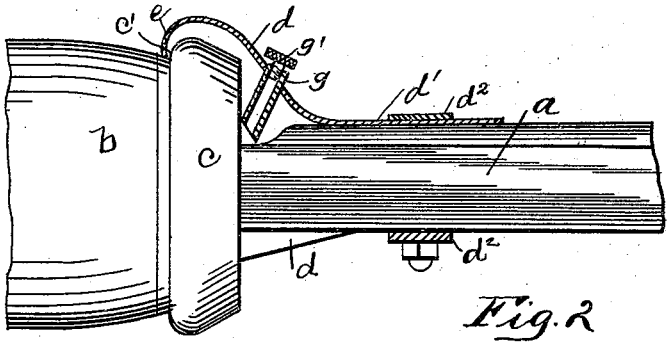


Fig. 2

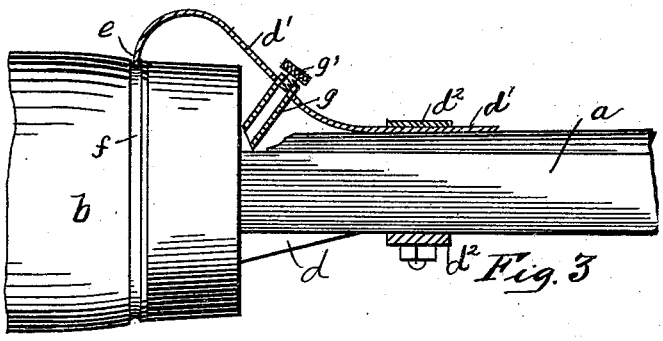


Fig. 3

WITNESSES:

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# UNITED STATES PATENT OFFICE.

SYLVESTER WILSON, OF CROOKED TREE, OHIO.

## SAND-BAND.

SPECIFICATION forming part of Letters Patent No. 490,731, dated January 31, 1893.

Application filed June 23, 1892. Serial No. 437,788. (No model.)

*To all whom it may concern:*

Be it known that I, SYLVESTER WILSON, a citizen of the United States, residing at Crooked Tree, in the county of Noble and State of Ohio, have invented a certain new and useful Improvement in Sand-Bands for Vehicle-Axles, of which the following is a specification.

My invention relates to the improvement of sand-bands for axle spindles of vehicles and the objects of my invention are, to provide a simple, and effective device of this class which will operate to shield the inner end of the spindle from dust or dirt; to provide in connection with my improved shield, means for oiling said spindle without necessitating the removal of the wheel; to admit of said band or shield being produced at a low cost of manufacture, and to produce other improvements which will be more specifically pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which,

Figure 1 is a side elevation of a portion of a vehicle hub and axle showing my improved shield thereon. Fig. 2 is a similar view showing said shield cut through the center and Fig. 3 is a similar sectional view to that shown in Fig. 2 in which is represented a modification in the manner of forming a joint between the shield head and hub.

*a* represents a vehicle axle and *b* the hub which is mounted on the spindle of said axle in the usual manner. As shown in the drawings, I secure upon the inner end of the hub a spring or band *c*, the latter being provided with an inwardly inclined or beveled face or periphery, as shown. The inner and thicker portion of this band *c* rises as shown, above the hub surface and forms a circular shoulder *c'*.

*d* represents the body of my improved shield which as shown, is of a general hood form and which consists of a shank or inner end portion *d'* which in cross-section is in the form of an inverted U, and which embraces the sides and top of the outer end portion of the axle *a* to which said shank is secured by means of a clip $d^2$, of the usual form. The forward portion or head of the shield *d* is enlarged and flaring, as shown, and has its outer end portion or edge curved inwardly as indicated at *e*. This forward and flaring portion of the shield *d* is adapted to rise as shown, above and about the inclined band *c*, the inturned edge of said flaring portion being adapted to spring down against the shoulder *c'* formed as above described by said band.

As shown in Fig. 3 of the drawings, the band *c* may be omitted if desired, and a peripheral groove *f* may be formed in the body of the hub within which the inturned edge of the shield may be sprung. As shown in the drawings, I provide the head or flaring portion of the shield at a point near the inner end of the hub, with an inwardly extending and inclined oil tube *g*, the other wise open or outer end of which is normally closed by a suitable stopper or threaded pin indicated at *g'*. This oil tube *g* is as shown in the drawings, inclined to lead toward the spindle of the axle.

From the construction herein shown and described, it will readily be seen that an exceedingly simple and neat device is produced which will operate as a hood to cover the connection of the axle and hub. It will also be seen that the hood formation of said shield admits of such expansion or contraction of the spring metal of which said shield is formed as to impart to said shield the desired spring qualities, and that the tension of the spring body thus formed will serve to retain the edge of the shield in the desired contact with the hub or shoulder *c'*. It is evident that the shield herein shown and described may be readily attached or detached, inasmuch as but one fastening is employed.

It will readily be seen that my improved shield may be stamped or otherwise formed from suitable sheet metal at a low cost of production and that the same may be made to present a neat and attractive appearance.

I am aware that metal sand-bands or shields have been used heretofore, and therefore confine my claim to the construction herein shown and described, which differs from those which I have mentioned.

Having now fully described my invention, what I claim and desire to secure by Letters Patent is,

In a sand band for vehicle axles, and hubs,

the combination with the axle and hub mounted thereon, a band *c* on the inner end of said hub, said band having an inclined face or periphery and an outer shoulder portion *c'* as described, of a spring metal shield or hood *d* having its shank secured to the axle as described, and a flaring head or outer end portion on said shield having an inturned edge adapted as described to spring over and against said shoulder *c'* and an oil tube *g* passing through said shield and provided with a detachable stopper, substantially as and for the purpose specified.

SYLVESTER WILSON.

In presence of—
THOS. S. GATES,
C. C. SHEPHERD.