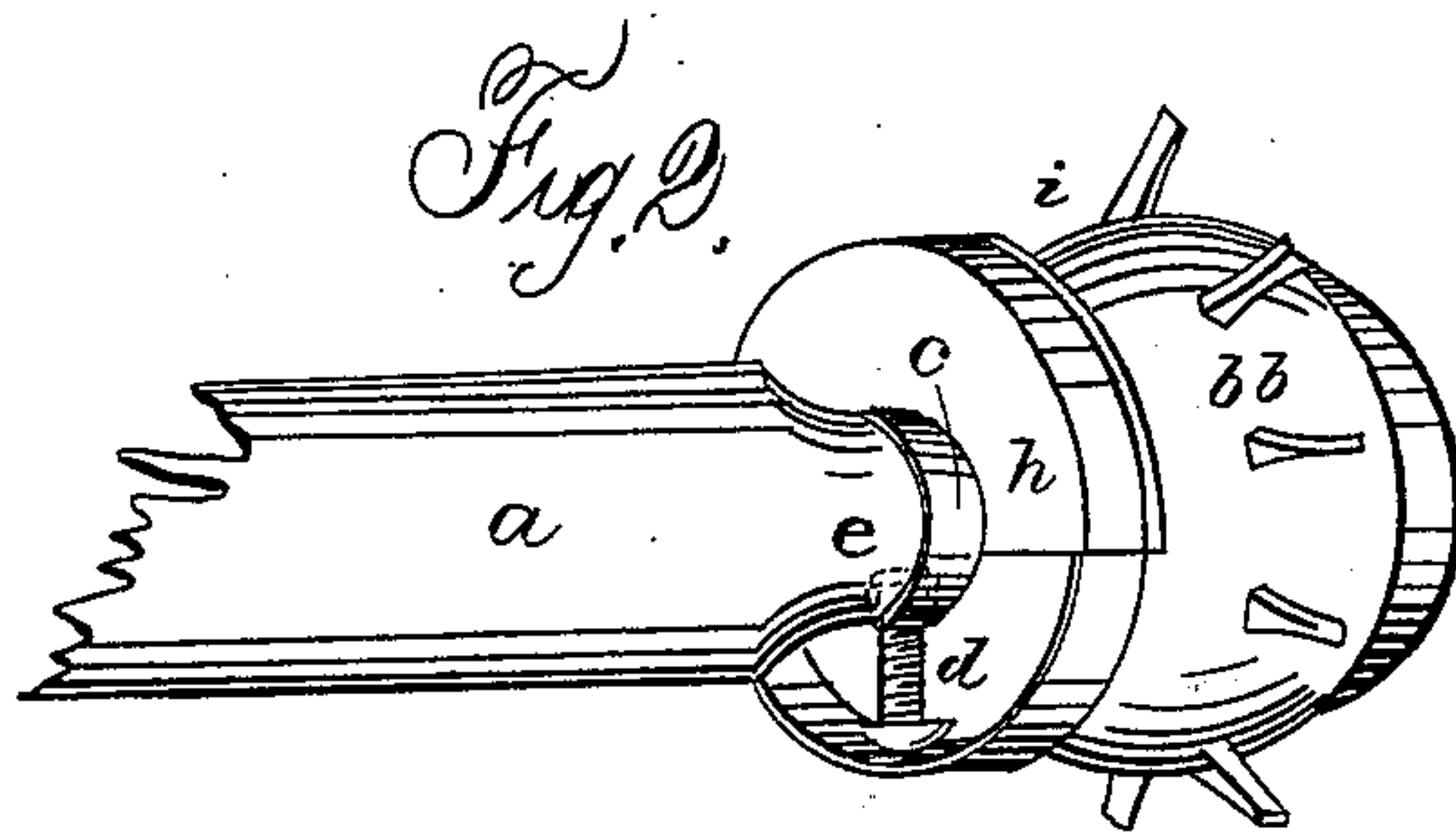
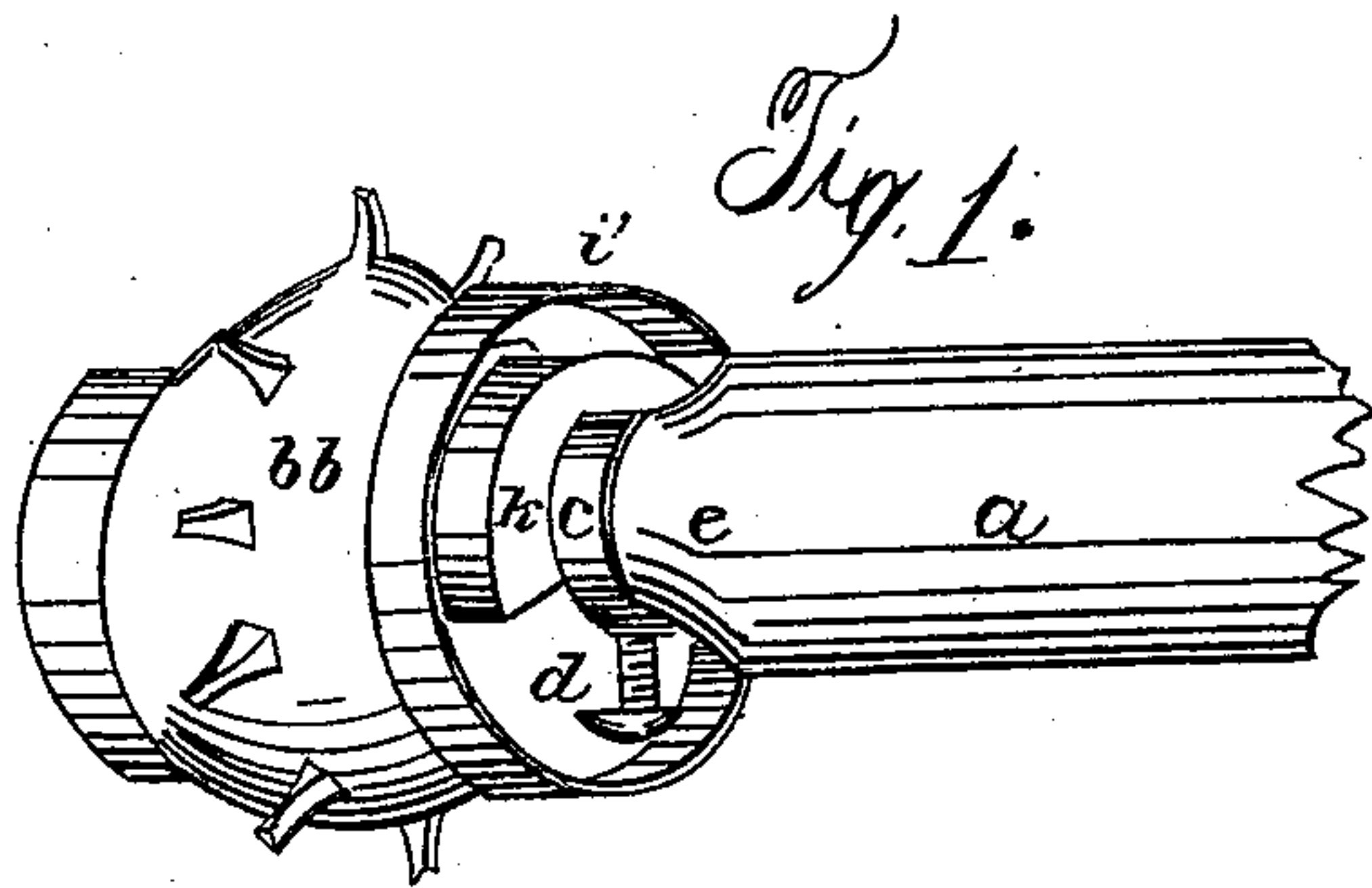


COLEBURN & STANARD.

Sand Band.

No. 76,605.

Patented April 14, 1868.



Witnesses,
Chas. F. Brown,
W. E. Stumph.

Inventors
A. O. Coleburn
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United States Patent Office.

A. O. COLEBURN AND H. T. STANARD, OF WAYNE, MICHIGAN.

Letters Patent No. 76,605, dated April 14, 1868.

IMPROVEMENT IN SAND-CAP FOR CARRIAGES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, A. O. COLEBURN and H. T. STANARD, of Wayne, in the county of Wayne, and State of Michigan, have invented a new and useful Sand-Cap; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, of which—

Figure 1 is a perspective view of one style of sand-cap, and

Figure 2 is a perspective view of another style of the same invention.

This invention consists of a cap or guard for the purpose of preventing sand, dust, &c., from getting between the journals of carriage-axles and the bearings of hubs, as will hereinafter more fully appear.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

A represents a carriage-axle, and *b b* represent the hubs of wheels. *c c* represent elastic metallic bands encircling said axle near the inner ends of the hubs, said bands being fastened to the axle by means of set-screws *d d*, said screws passing through nuts *e e* placed between the bands *c* and the axle for the purpose of steadying the screws. To the bands *c* are attached annular flanges, *h h'*, the former of which is of greater radius (reckoning from the centre of the axle,) than the hub, while the latter is of less. To the curved edges of said flanges *h h* are secured rims *i i'*, the line of their width being at right angles with the radius of the flanges *h h*. The rim, *i*, extends over the outside of its hub-band, and the rim, *i'*, extends under the inside of its hub-band. This is not intended to be an arbitrary arrangement, but merely to show that either style may be adopted. By this device, the sand, dirt, &c., thrown up by the wheel are prevented from getting between the axle and hub, to the detriment of both, and the increase of friction. As the dirt thrown up by the wheel falls on the axle from above, it is only necessary to place the guards on the upper part of the axle. The band *c* being elastic, it may be adjusted to axles of different sizes.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The adjustable sand-caps *c h* applied in connection with an axle and hub, as and for the purpose described.

A. O. COLEBURN,

H. T. STANARD.

Witnesses:

H. E. COLEBURN,

J. C. PRUY.