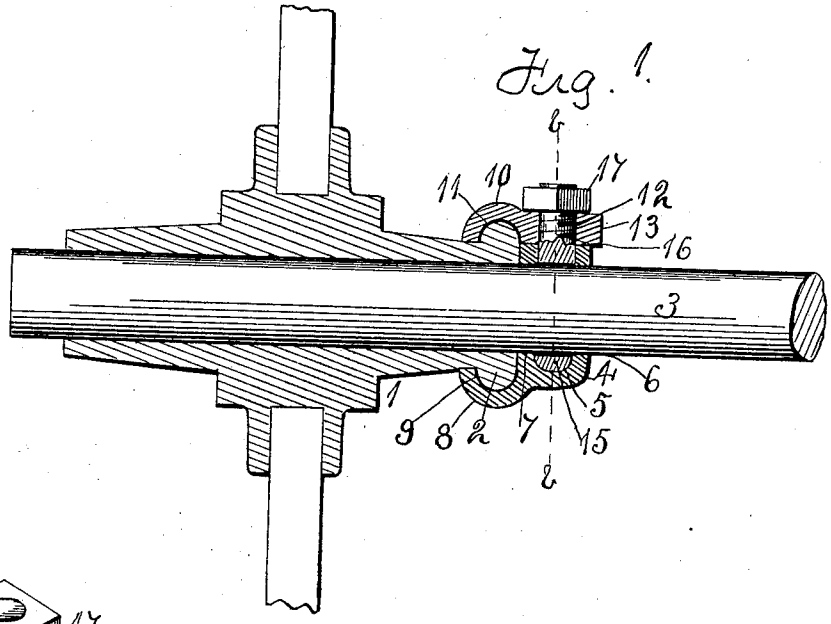
No. 830,691. PATENTED SEPT. 11, 1906.

L. E. WATERMAN.

SAND BOX FOR WHEELS.

APPLICATION FILED JAN. 18, 1906.

Fig. 1.



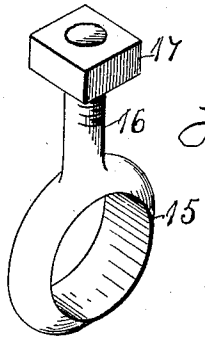
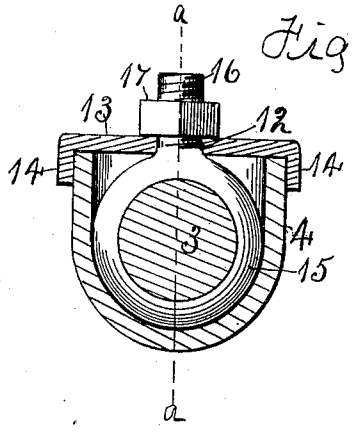




Fig. 3.

Fig. 2.



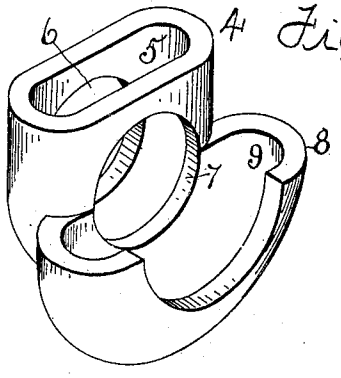
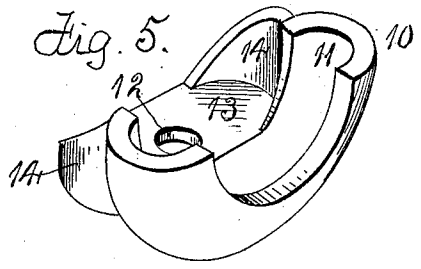




Fig. 4.

Fig. 5.




Witnesses:
H. J. Slagle
E. Bebel.

Inventor:
Lewis E. Waterman.
By A. O. Bebel
Atty.

THE NORRIS PETERS CO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

LEWIS E. WATERMAN, OF ROCKFORD, ILLINOIS, ASSIGNOR TO EMERSON MANUFACTURING COMPANY, OF ROCKFORD, ILLINOIS, A CORPORATION OF ILLINOIS.

## SAND-BOX FOR WHEELS.

No. 830,691. Specification of Letters Patent. Patented Sept. 11, 1906.

Application filed January 18, 1906. Serial No. 296,722.

*To all whom it may concern:*

Be it known that I, LEWIS E. WATERMAN, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Sand-Boxes for Wheels, of which the following is a specification.

The object of this invention is to construct a sand-box for wheels and for other similar uses which also serves to locate the wheel on its shaft.

In the accompanying drawings, Figure 1 is a vertical longitudinal section on dotted line *a a*, Fig. 2, also through the hub portion of a wheel. Fig. 2 is a transverse section on dotted line *b b*, Fig. 1. Fig. 3 is an isometrical representation of the eyebolt. Fig. 4 is an isometrical representation of the base portion of the sand-box. Fig. 5 is an isometrical representation of the cap portion of the sand-box.

At Fig. 1 my improved sand-box is shown in connection with the hub portion 1 of a wheel, the hub portion being provided with a bead 2 at one end. A shaft 3 is located within the hub portion of the wheel. My improved sand-box is intended to receive the bead 3 of the hub portion of the wheel. The base or main portion of the sand-box comprises a section 4, provided with a cavity 5. Two openings 6 and 7 are formed through the side walls of this section and are of a size to receive the shaft 3. From the section 4 extends a semicircular portion 8, having a groove 9 of a size to receive the bead 2. The cap-section has a semicircular portion 10, provided with a groove 11 of a size to receive the bead 2. From the cap-section extends a plate 13, adapted to be placed over the open end of the section 4 of the base-section. A hole 12 is formed through the plate 13, and end portions 14 depend from the plate. An eyebolt 15 has its shank 16 screw-threaded and receives a nut 17.

In placing the sand-box in use in connection with a wheel and its shaft the eyebolt 15 is located in the cavity 5, so that its opening will coincide with the openings 6 and 7 in the side walls of the section 4. The semicircular portion 8 receives the bead 2 of the hub of the wheel. The shaft 3 is then placed through the openings 6 and 7 and through the central opening of the eyebolt. The cap-section is placed over the base-section, so that the remaining half of the bead is received within the semicircular portion 10 and the shank of the eyebolt passes through the hole 12 in the plate 13. The nut 17 is then turned in connection with the screw-threaded shank of the eyebolt, which will clamp the cap-section to the base-section, and at the same time the eyebolt will clamp the base and sand cap-sections to the shaft, so that the bead 2 of the wheel-hub will turn within the grooves of the semicircular portions 8 and 10. This construction of sand-box protects the bead from dirt.

I claim as my invention—

1. A sand-box comprising two sections and an eyebolt.

2. A sand-box comprising two sections, and an eyebolt, one section receiving the eyebolt and both sections formed with a semicircular grooved portion.

3. A sand-box comprising two sections and an eyebolt, one section receiving the eyebolt and both sections formed with a semicircular portion, and one section overlapping the other section.

4. A sand-box comprising a main portion having a cavity with side openings, an eyebolt located within the cavity, a semicircular portion extending from the main portion and a cap-section provided with a semicircular portion and a plate, the plate adapted to be placed over the cavity and held in place by a nut placed in connection with the eyebolt, the shank of the eyebolt passing through the plate.

LEWIS E. WATERMAN.

Witnesses:
A. O. BEHEL,
E. BEHEL.