

R. McDONALD.

COMBINED STEP AND HUB-BAND.

No. 182,839.

Patented Oct. 3, 1876.

Fig. 1.

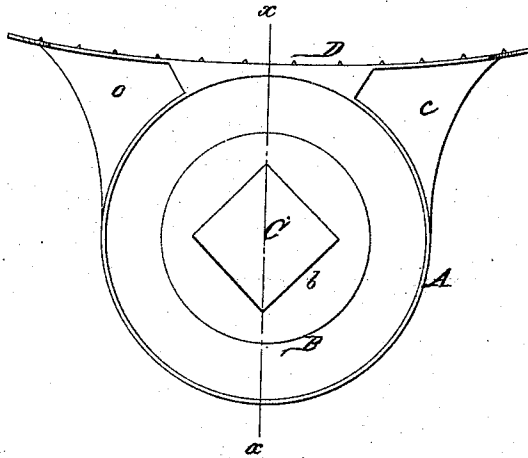
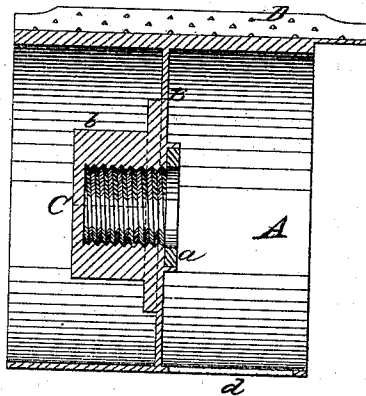


Fig. 2.



WITNESSES:

H. Rydquist.
John Goethals

INVENTOR:

R. McDonald
BY *mm*

ATTORNEYS.

UNITED STATES PATENT OFFICE

ROBERT McDONALD, OF GEORGETOWN, COLORADO.

IMPROVEMENT IN COMBINED STEP AND HUB-BAND.

Specification forming part of Letters Patent No. **182,839**, dated October 3, 1876; application filed August 28, 1876.

To all whom it may concern:

Be it known that I, ROBERT McDONALD, of Georgetown, in the county of Clear Creek and State of Colorado, have invented a new and Improved Safety-Step, Hub-Band, Nut, and Dust-Box for Carriages, of which the following is a specification:

Figure 1 is a front elevation. Fig. 2 is a vertical section on line *xx* in Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention consists in the combination of a step, hub-band, nut, and dust-box for carriages, comprised in a single casting.

A is a band, which is of sufficient size to inclose the end of the carriage-hub, and is divided in the center by a web, B. A nut, C, is formed at the center of the web, and is provided with the usual recess for the washer *a*, and with the square portion *b*. D is a step, cast upon one side of the band A, and strengthened by ribs or brackets *c*. The upper surface of the step is roughened or serrated to in-

sure a firm foot-hold. An aperture, *d*, is cut in the lower side of the band to permit the escape of dust.

This invention is applicable to carriages and wagons of every description. It provides a step at the most desirable point and answers the purpose of a nut and hub-band.

If desirable the device may be made in two or more parts, fixed together by rivets, screws, or otherwise, and finished by plating or gilding.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A step, hub-band, nut, and dust-box combined in a single casting or piece of metal, or made in several parts, permanently fixed together, substantially as shown and described.

ROBT. McDONALD.

Witnesses:

H. B. BEIGHLEY,
THOS. S. CAUTION.