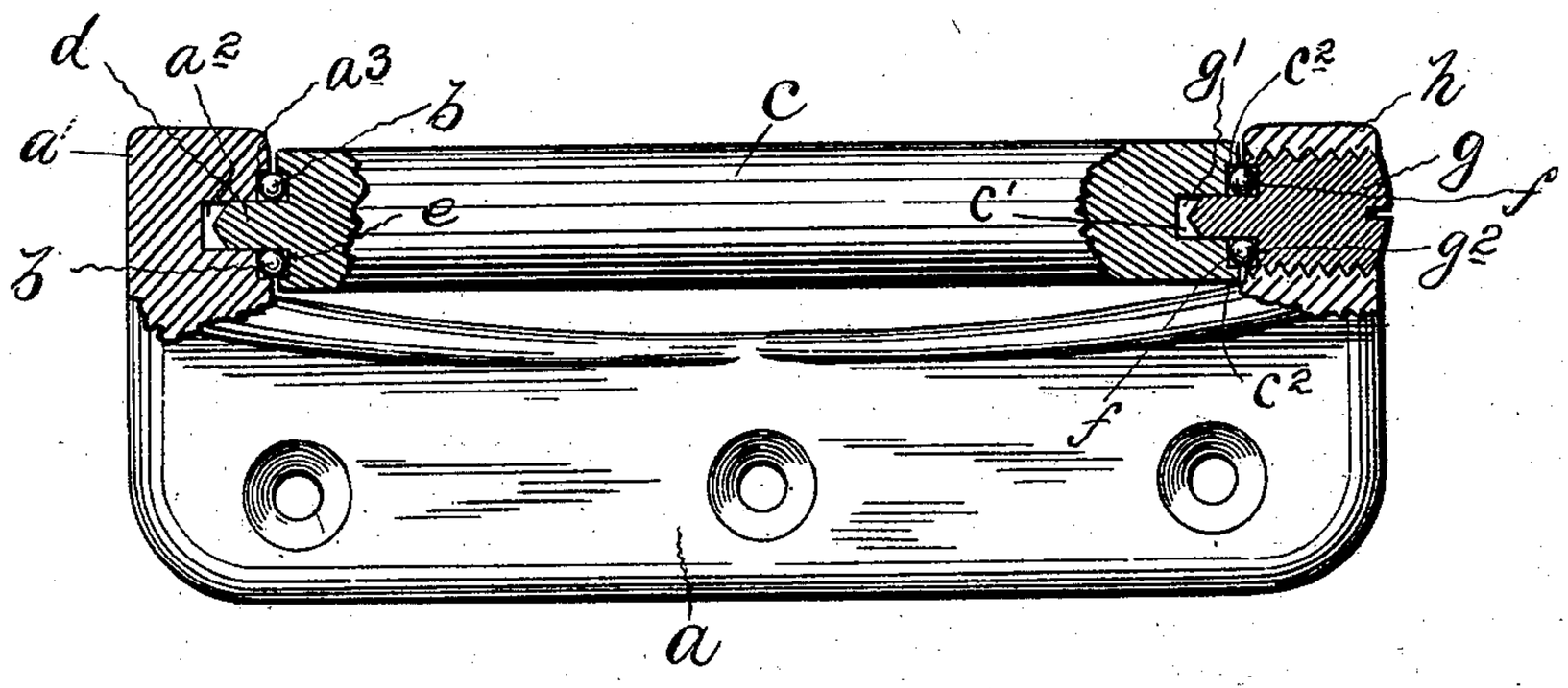
No. 695,631. Patented Mar. 18, 1902.

T. H. BRADY.

ROLLER CHAFE IRON.

(Application filed Jan. 24, 1902.)

(No Model.)



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UNITED STATES PATENT OFFICE.

THOMAS H. BRADY, OF NEW BRITAIN, CONNECTICUT.

ROLLER CHAFE-IRON.

SPECIFICATION forming part of Letters Patent No. 695,631, dated March 18, 1902.

Application filed January 24, 1902. Serial No. 91,088. (No model.)

To all whom it may concern:

Be it known that I, THOMAS H. BRADY, a citizen of the United States of America, residing and having my post-office address at New Britain, in the county of Hartford and State of Connecticut, have invented a certain new and useful Improvement in Roller Chafe-Irons, of which the following is a description, reference being had to the accompanying drawing, wherein the figure is a view, partly flatwise and partly in section, of a roller chafe-iron embodying said improvement.

The object of the improvement is denoted by its title.

This is a roller chafe-iron for wagons and other wheeled vehicles.

In the accompanying drawing the letter *a* denotes the frame or body of the device, intended and adapted to be attached and fastened to the body of a wagon or other vehicle in such relation that the vehicle-wheel will strike against the roller of this device rather than come in contact with the vehicle-body.

The letter a' denotes what may be termed a "journal-box," by preference cast integral with the frame *a*. It has a journal-socket a^2 and a partial ball-race a^3.

The letter *c* denotes the roller, which is intended, designed, and adapted to receive the contact of the vehicle-wheel when it is unduly cramped in turning. At one end this roller carries the journal-pintle *d*, which is adapted to enter the journal-socket a^2 and rotate therein. At this end the roller is also provided with a partial ball-race *e*. The letter *b* denotes balls partly in partial ball-race a^3 and partly in partial ball-race *e*. At the opposite end the roller *c* is provided with a journal-socket c' and partial ball-race c^2.

The letter *g* denotes a screw exteriorly threaded and carried in the interiorly-threaded support *h*. This screw carries the journal-pintle g', which is adapted and designed to enter the journal-socket c' in the roller *c*. The screw also has partial ball-race g^2.

The letter *f* denotes balls partly in the partial ball-race c^2 and partly in the partial ball-race g^2.

This construction gives a device which is easily assembled and taken apart, a device which affords to the roller ball-bearings both longitudinally and radially, and it gives a device in which the balls are so situated that they are in part in the opening or interval which is necessarily at each end of the roller, so that dust, dirt, or ice lodging in these openings tends to be disturbed and thrown out of the openings by the action of the balls when the roller is turned.

I claim as my invention—

In combination; the journal-box having a journal-socket and partial ball-race; the roller having at one end a journal-pintle adapted to enter said journal-socket and a partial ball-race and having at its opposite end a journal-socket and partial ball-race; the screw having a journal-pintle adapted to enter said last-mentioned journal-socket and a partial ball-race; an internally-threaded support for said screw; and the two sets of balls all substantially as described and for the purposes set forth.

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