G. W. & J. C. GEISENDORFF.

Car-Axle Box.

No. 12,347. Patented Feb. 6, 1855.

Fig. 1.

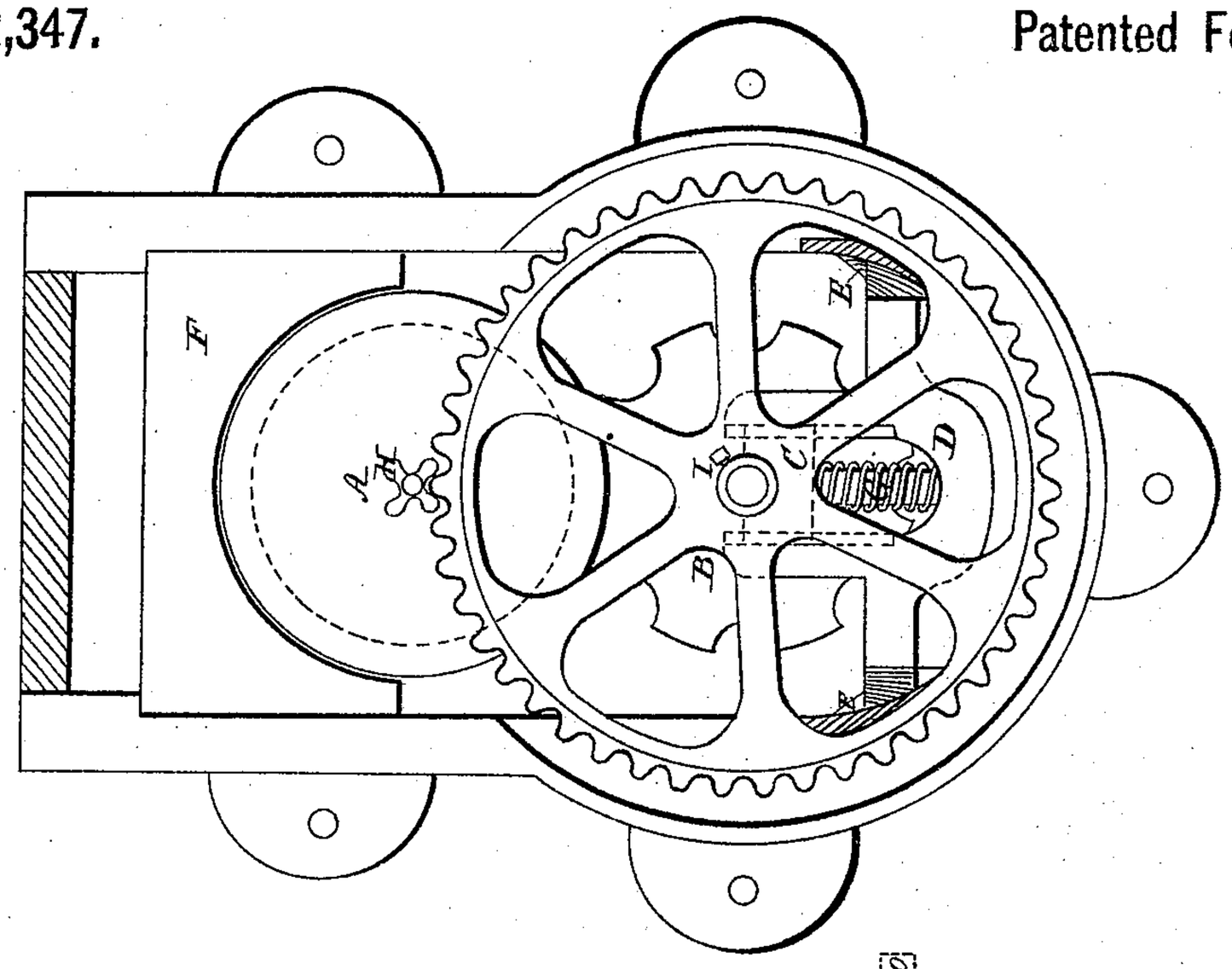


Fig. 2.

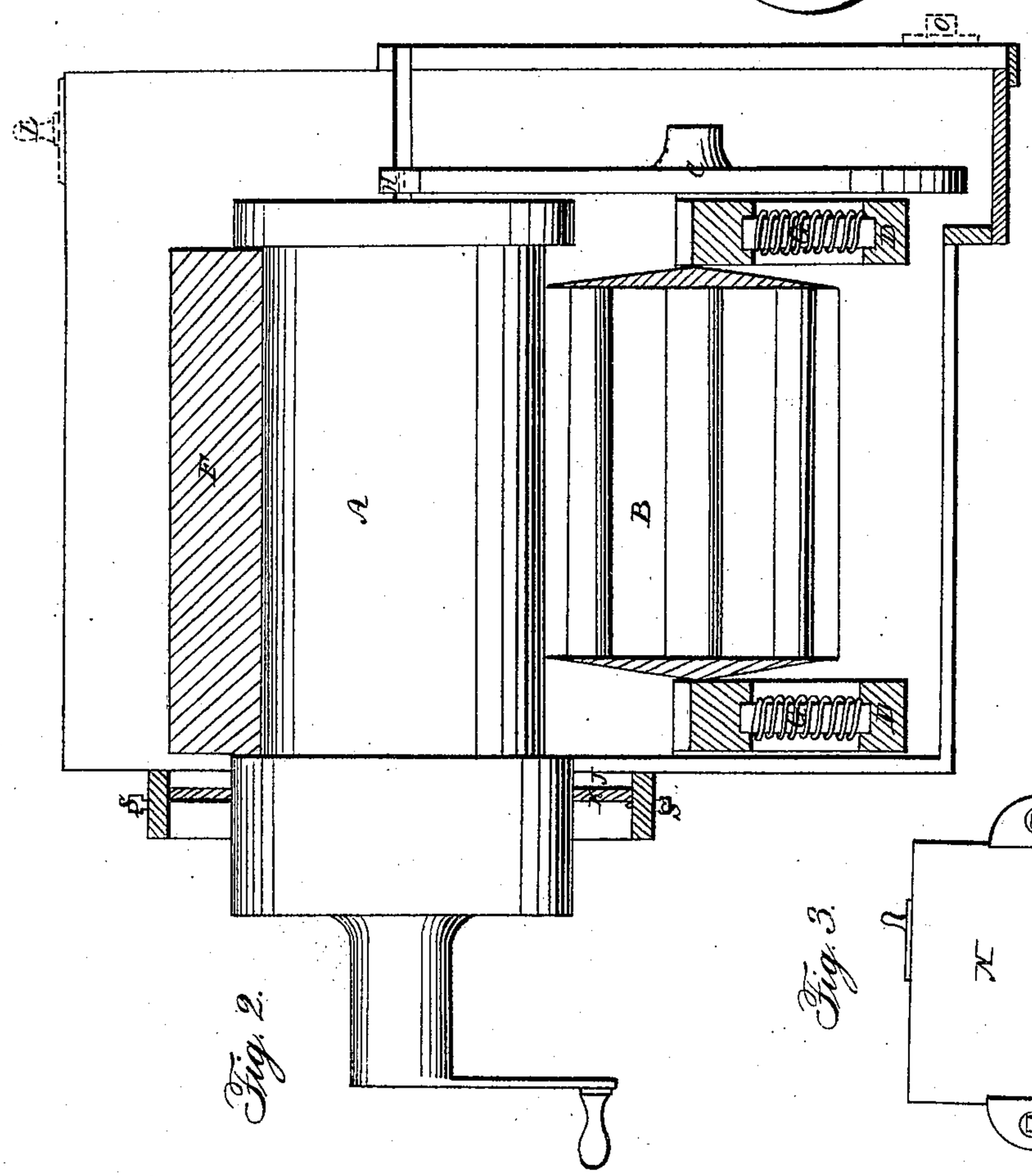
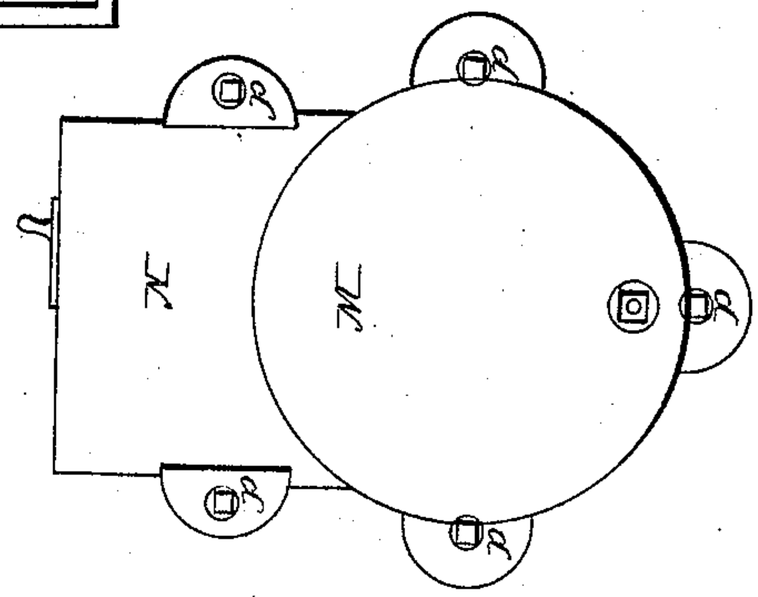


Fig. 3.



UNITED STATES PATENT OFFICE.

GEO. W. GEISENDORFF, OF INDIANAPOLIS, INDIANA, AND JACOB C. GEISENDORFF, OF CINCINNATI, OHIO.

AXLE-BOX ROLLER.

Specification forming part of Letters Patent No. 12,347, dated February 6, 1855; Reissued January 13, 1857, No. 420.

To all whom it may concern:

Be it known that we, GEORGE W. GEISENDORFF, of Indianapolis, county of Marion, and State of Indiana, and JACOB C. GEISENDORFF, of the city of Cincinnati, county of Hamilton, and State of Ohio, have invented a new and Improved Car-Box, which we call "The Car-Axle Lubricator;" and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing and to the letters and figures of reference marked thereon.

The nature of our improvement in lubricators is to furnish the material now chiefly used for that purpose, viz dubbing (a material composed of tallow and oil) freely and with certainty to the journals of railroad car axles, not only when said material is rendered fluid by the heating of the axle; but to accomplish a more desirable object, viz., its application thereto when rendered solid by the state of the weather; or at the moment of starting the cars from a continued rest. We also by our mode of construction prevent any loss of the lubricating material when rendered fluid by the overflow of the oil box, one of the consequences of the usual form. We further by dispensing with flock cotton or wool, commonly used prevent the rolling of the same, arising from a dry box, and the raising thereby of any filthy or gritty fluid deposited in the bottom of the oil box.

All of these desirable results we accomplish by giving a positive motion to the lubricator through the agency of cog gear or similar means.

We are well aware that journals have been lubricated by rollers in contact with, and operated on their peripheries by the journal, but such devices may serve the purpose when oils are used, and those oils capable of standing the severity of cold; but they by no means afford a sure mode of lubricating when solid dubbing is used, or extreme cold weather ensues; as the roller or lubricator being embedded in the lubricating material is arrested, and held firm until the mass is melted by the action and friction of a dry journal causing it to heat and thus melt the material.

Figure 1, is an end view of the lubricator and box. Fig. 2, is a section through the center longitudinally.

A, A, Figs. 1, and 2, represents the journal of the axle which is lubricated by the roller B B.

D, Figs. 1, and 2, is a slide frame which sustains the roller, and can be taken out when necessary.

H, H, is the pinion in the center of the axle which revolves the cog wheel C C.

I is a set screw to fasten the wheel C, on the shaft.

G is the spiral spring which presses the lubricating roller against the journal of the axle.

F, is the metal box resting on the axle journal.

O, is a screw near the bottom of the front cap to let out the oil when unfit for use.

L is a slide on the top of the box to cover the oil hole.

J is a leather washer around the axle.

K is a brass washer that secures the leather washer to the box held by the screws S, S.

Fig. 3 represents the front of the box closed with the caps N and M screwed on with bolts marked P. P.

We would further state that the lubricating roller may be made either cylindrical, or fluted, and covered with any soft absorbent substance that will retain the oil and carry it up to the axle as it revolves.

We are aware that it is not new to give motion to the lubricating roller, by mere contact of said roller with the journal of the axle, but having described our improvement—

What we claim as our invention and desire to secure by Letters Patent is—

The giving a positive motion or rotation to the lubricating roller by the axle of the car wheel in the manner set forth.

G. W. GEISENDORFF.
J. C. GEISENDORFF.

In presence of—
JAMES BIRNEY,
C. G. CONRADT.

[FIRST PRINTED 1913.]