(No Model.)

# J. A. MYERS.

## AXLE BOX GAGE.

No. 253,823. Patented Feb. 14, 1882.

Fig. 1.

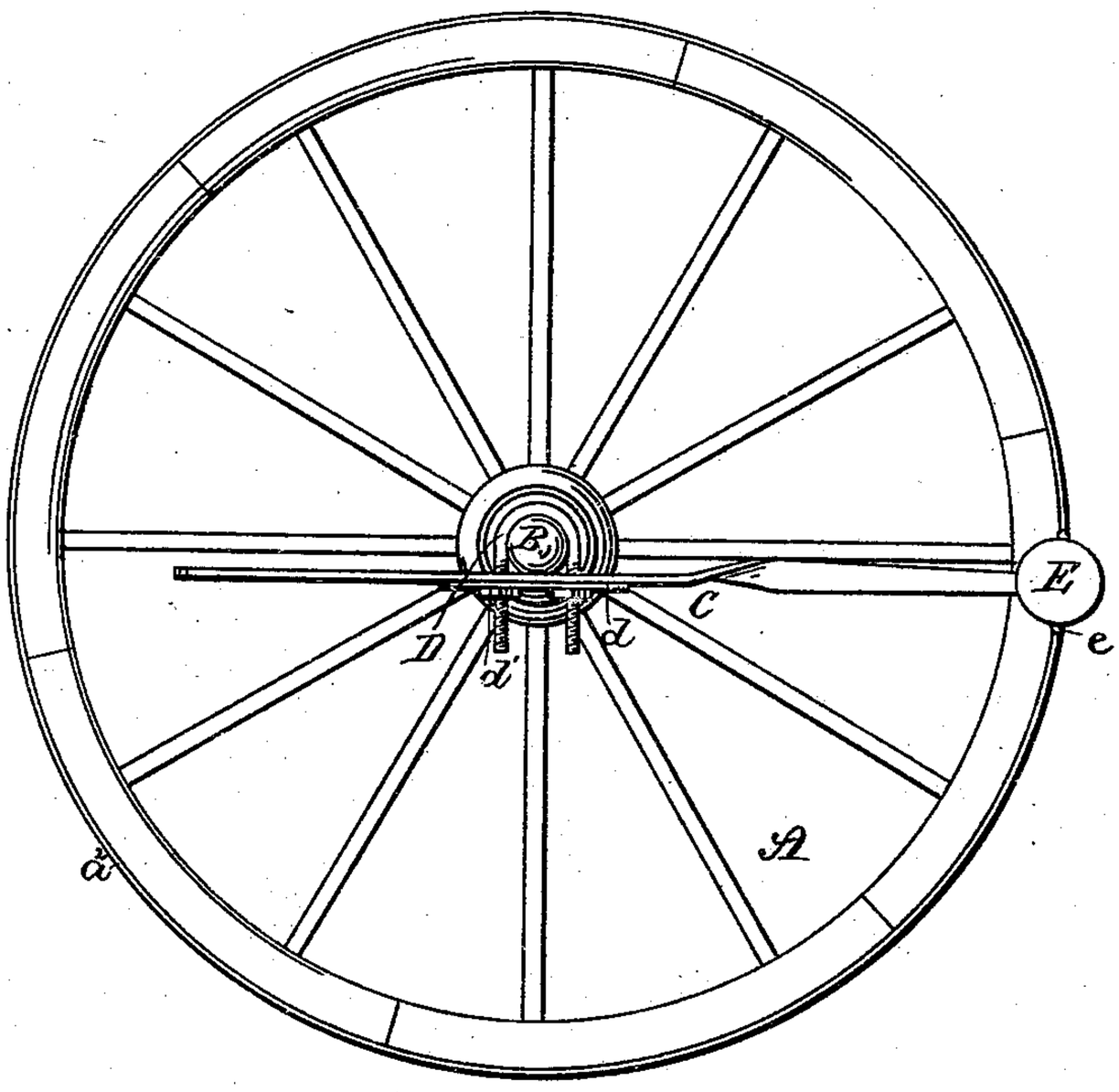
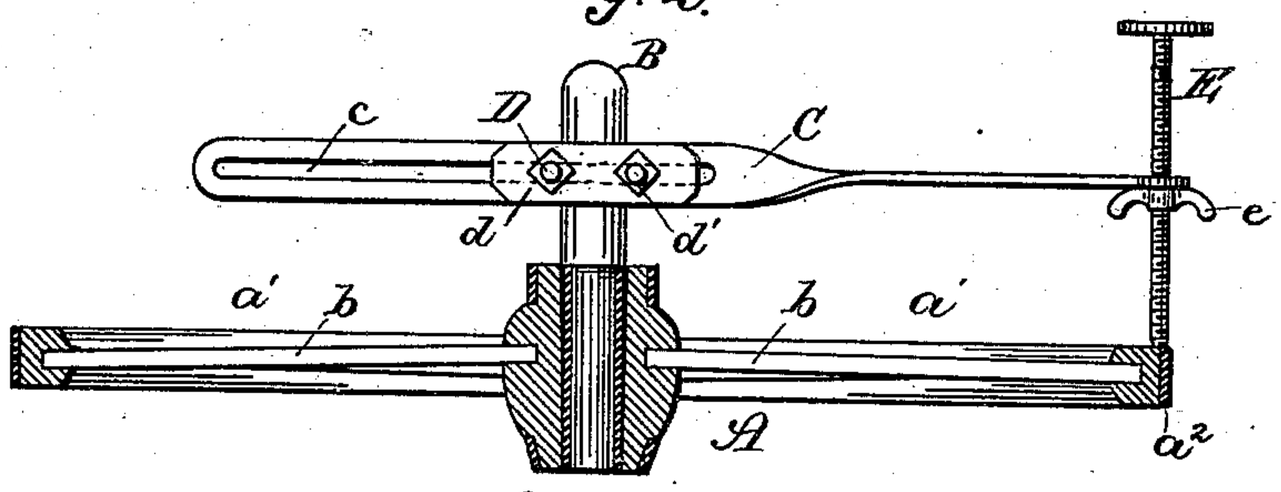



Fig. 2.




Witnesses:

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# UNITED STATES PATENT OFFICE.

JOHN A. MYERS, OF MONROE CITY, LOVELY DALE, INDIANA.

## AXLE-BOX GAGE.

SPECIFICATION forming part of Letters Patent No. 253,823, dated February 14, 1882.

Application filed December 9, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN A. MYERS, a citizen of the United States, residing at Monroe City, Lovely Dale, in the county of Knox and State of Indiana, have invented certain new and useful Improvements in Setting Boxes in Wagon or Carriage Wheels, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to devices for setting hub-boxes; and it consists in the construction and arrangement of its several parts, as will be hereinafter fully set forth.

In the drawings, Figure 1 is a top plan view; and Fig. 2 is a view partly in section, and showing a side elevation of my device.

A is a wheel of ordinary construction, of which *a* is the hub, *a'* the spokes, and $a^2$ the felly.

B is a plug or spindle which fits the hub-box. It may be made tapering to fit hub-boxes of different sizes, or straight, and different sizes of the plug made to fit the various sizes of hub boxes.

C is the gage-arm. It has a slot, *c*, by which it may be regulated to any desired length to correspond with the diameter of the wheel. It is secured to the gage-arm by a keeper, D, the ends of which pass through the slot and through the washer *d*, and the nuts upon the end of the keeper operate to hold the gage-arm rigidly in place against the spindle, or by loosening them the outer end of the gage-arm can be set at different distances from the center to correspond with the diameter of the wheel.

E is an index-rod. It passes through a threaded hole in the outer end of the gage-arm, and is provided with a lock-nut, *e*, by which it may be rigidly fixed upon the gage-arm.

The operation of the device is readily understood. By setting the gage-arm and its index-rod so that the latter reaches the outer edge of the felly, and by then moving the index-points around to different points in the circumference of the wheel it can be determined when the box is accurately centered in the hub.

What I claim is—

The combination of the spindle B, gage C, nuts *d'*, and washer *d* with the index-rod E, operating in a threaded hole in the outer end of the gage-arm, and provided with a lock-nut, *e*, and with the wheel A, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN ALVIN MYERS.

Witnesses:

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WILLIAM C. WILLMORE.