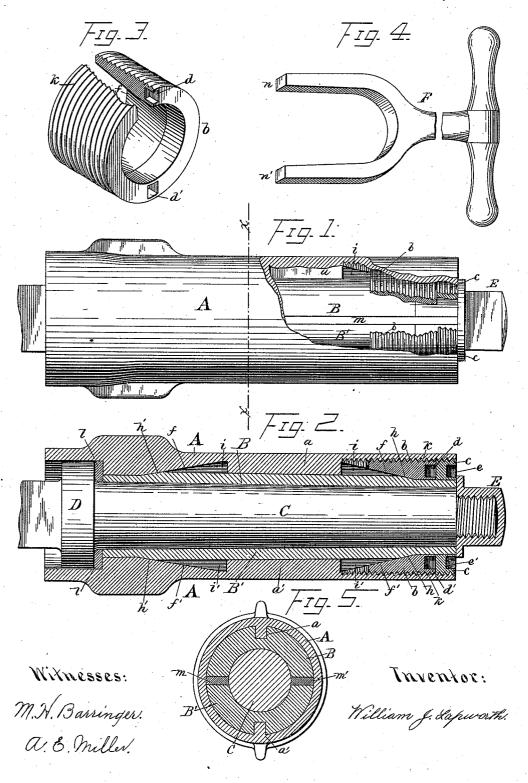
(No Model.)

W. J. LAPWORTH. ADJUSTABLE BOXING FOR VEHICLE WHEELS.

No. 549,646.

Patented Nov. 12, 1895.



UNITED STATES PATENT OFFICE.

WILLIAM J. LAPWORTH, OF BEATRICE, NEBRASKA.

ADJUSTABLE BOXING FOR VEHICLE-WHEELS.

SPECIFICATION forming part of Letters Patent No. 549,646, dated November 12, 1895.

Application filed July 6, 1895. Serial No. 555,138. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. LAPWORTH, a citizen of the United States, residing at Beatrice, in the county of Gage and State of 5 Nebraska, have invented a new and useful Adjustable Boxing for a Vehicle-Wheel, of which the following is a specification.

which the following is a specification.

My invention relates to the improvement over the old non-adjustable box; and the objects of my improvements are, first, to provide an adjustable boxing that will at all times be as firm as a solid box; second, one that will keep the wheel firm and true and have a much longer life than the solid box; third, one that can be adjusted by any person. I attain these objects by methods shown in the accompanying drawings, in which—

Figure 1 is a side elevation of the solid box with the upper right-hand corner broken 20 away, so as to show the outside of box B B'. m is the metallic distance pieces or liners; b, wedge-nut for setting up the boxing; c, lock-nut to secure wedge-nut b; i, key-seat in boxing B. a is a key on box A to prevent 25 boxing B B' from revolving. E is a nut on axio

Fig. 2 is a longitudinal section of Fig. 1.
A A is the solid box; B B', the adjustable boxing; a a', keys; ii, key-seats; f f', angle of wedge on boxing B B'; h, angle on wedgenut b; k, threads; d d', wrench-slots; c, locknut; e e', wrench-slots. C is the axle; D, collar; l, leather washer; E, nut on end of axle.

Fig. 3 is a perspective view of wedge-nut b, broken away to show angle of wedge; d d', wrench-slots; k, threads.

Fig. 4 is the wrench for adjusting nuts b and c.

Fig. 5 is a transverse section of Fig. 1 on 40 line x x. a a' are the fixed keys; A, solid box; B B', adjustable boxing; m m', metallic liners; C, axle.

To adjust boxing, take out lock-nut c, slack back wedge-nut b, reduce liners mm' to proper 45 thickness, set up wedge-nut b, and lock with nut c, which will leave the boxing solid and firm, as when new.

What I claim as my invention, and desire

to secure by Letters Patent, is-In a boxing for a vehicle wheel, the combination, with the box A provided with a conical portion at one end, a screw-threaded chamber at the other end, and a cylindrical middle portion provided with keys; of two half bear- 55 ings B B' for the axle, provided with conical ends and a cylindrical middle portion having slots engaging with the said keys, removable liners m interposed between the said half bearings, and a nut screwed into the said 60 chamber and provided with a conical portion encircling one end of the said half bearings, and operating when screwed up to tighten the said half bearings upon the said liners, thereby forming a substantially solid cylin- 65 drical bearing for the axle, substantially as set forth.

WILLIAM J. LAPWORTH.

Witnesses:

J. S. RUTHERFORD, M. H. WATTS.