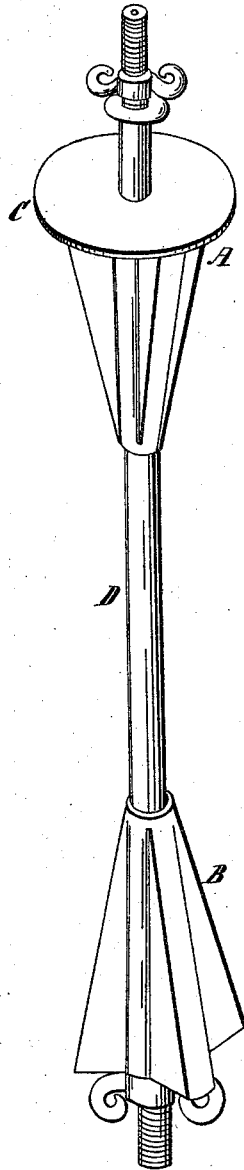


*N. Hawley,
Lathe Tool,*

No 12,455.

Patented Feb. 27, 1855.



UNITED STATES PATENT OFFICE.

NIRAM HAWLEY, OF ROME, NEW YORK.

MANDREL FOR HOLDING CARRIAGE-HUBS, &c.

Specification of Letters Patent No. 12,455, dated February 27, 1855.

To all whom it may concern:

Be it known that I, NIRAM HAWLEY, of Rome, county of Oneida, and State of New York, have invented a new and Improved Mandrel to be Used in Manufacturing or Repairing Wheels for Wagons, Carriages, or other Wheeled Vehicles; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The invention consists of two cone shaped cylinders or tumblers, winged as seen in the drawing, or plain, at pleasure, of metal or wood, adjusted to an iron shaft, one of which is made immovable having a circular end face, to render perfect the movement of the set, when the spokes are being driven into the hub; and the other cylinder is to slide upon the shaft, retaining it, in the center of the box when repairing the hub. The

shaft and cones may be made of any size required; this instrument is of special importance in repairing wheels, as by it boxes are easily and certainly centered, and new work is better and more perfectly manufactured.

Reference to drawing: A, the face cylinder; B, sliding cylinder; C, face of cylinder, against which the set presses; D, the shaft.

What I claim as my invention and desire to secure by Letters Patent is—

The application of the cone shaped cylinders calculated for every size box or hub, and the face end of cylinder, to make the revolutions of the set invariable.

NIRAM HAWLEY.

In presence of—

JAY HATHAWAY,
ALEX BEEMAN.