

T. S. MORGAN.
SPOKE-SETTING MACHINE.

No. 176,235.

Patented April 18, 1876.

Fig: 1.

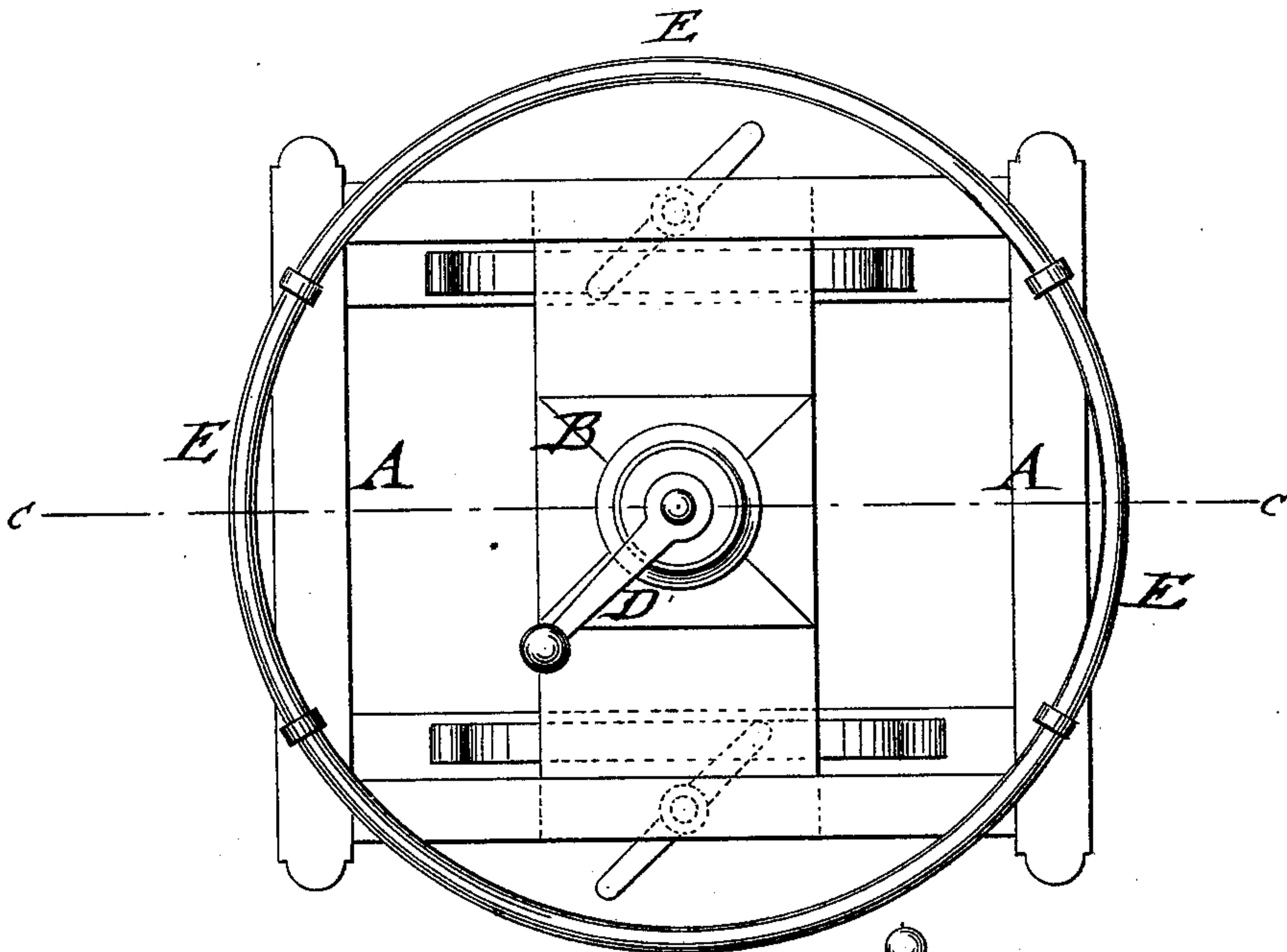
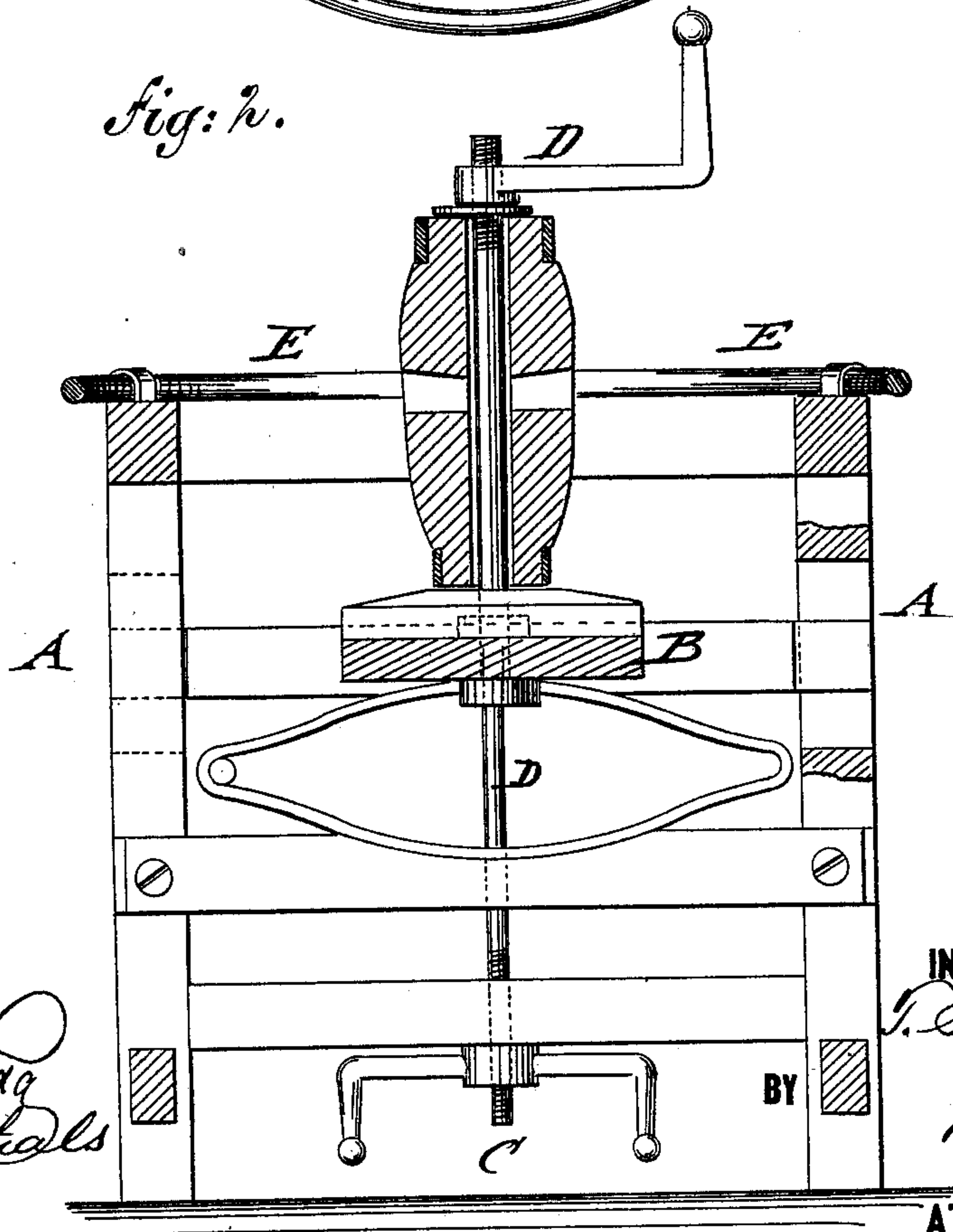


Fig: 2.



WITNESSES:

*Chas. Nida
J. Goethals*

INVENTOR:

T. S. Morgan

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

THOMAS S. MORGAN, OF NEW COLUMBIA, ILLINOIS.

IMPROVEMENT IN SPOKE-SETTING MACHINES.

Specification forming part of Letters Patent No. **176,235**, dated April 18, 1876; application filed March 13, 1876.

To all whom it may concern :

Be it known that I, THOMAS S. MORGAN, of New Columbia, in the county of Massac and State of Illinois, have invented an Improvement in Spoke-Setting Machines, of which the following is a specification :

In the accompanying drawing, Figure 1 represents a top view, and Fig. 2 a vertical central section, of my improved spoke-setting machine on the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention relates to a machine for setting and driving spokes in a rapid and convenient manner, so that the exact inclination of all the spokes is obtained; and the invention consists of a vertically-adjustable hub-supporting frame in connection with a stationary spoke-setting top ring.

In the drawing, A represents the supporting-frame of my improved spoke-setting machine, and B the lateral adjustable frame, which is placed on springs to be moved vertically up and down by bolts and crank-nuts C. The hub is placed on a central bolt, D, of the lateral frame B by a top washer and fastening crank-nut, D', being rigidly secured thereby in position thereon. The top part of frame A supports the guide or set ring E, on which the

spokes are placed for being set into the hub and driven in. After the hub is fastened in central position to the top ring E the adjustable frame is screwed down until the center line of the hub is on a level with the circle; then the hub is dotted above the leveling straight-edge, and the bolts unscrewed until the desired dish or set of the spokes is obtained, which is necessary, as all hubs are made with straight front and sloping back mortise, throwing thereby the ends of the spokes forward at some inclination. The spokes are then all fitted into the hub by being placed on the guide or set ring, and driven in uniform manner into the hub by tapping the spokes, obtaining thus the required set of all the spokes in quick and accurate manner.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A machine for setting spokes, consisting of a vertically-adjustable hub-supporting frame, in combination with a spoke-setting guide-ring, substantially in the manner and for the purpose set forth.

THOMAS SEWARD MORGAN.

Witnesses:

J. H. CHOAT,
A. B. AGNEW.