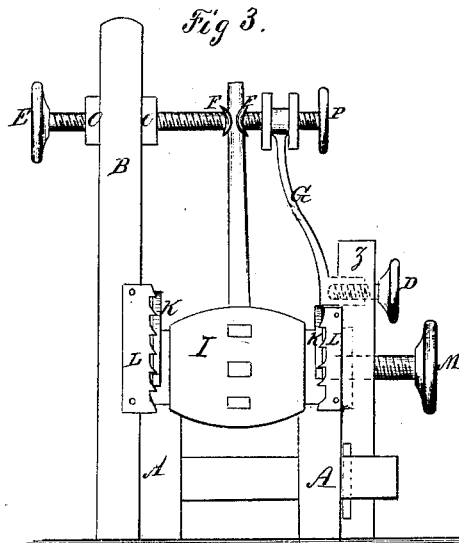
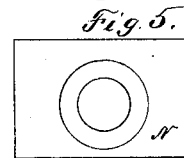
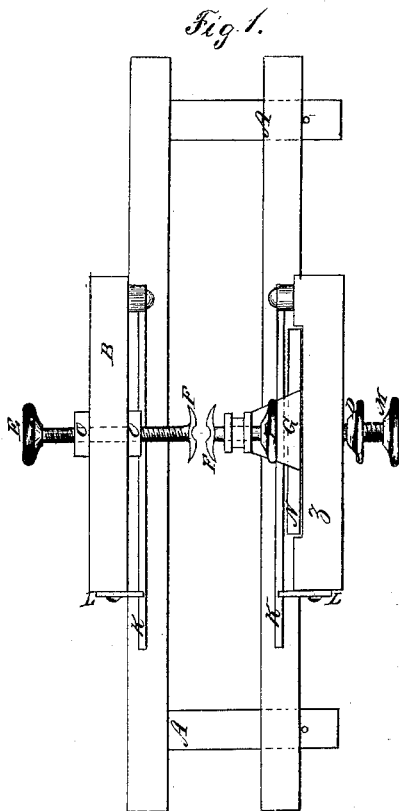
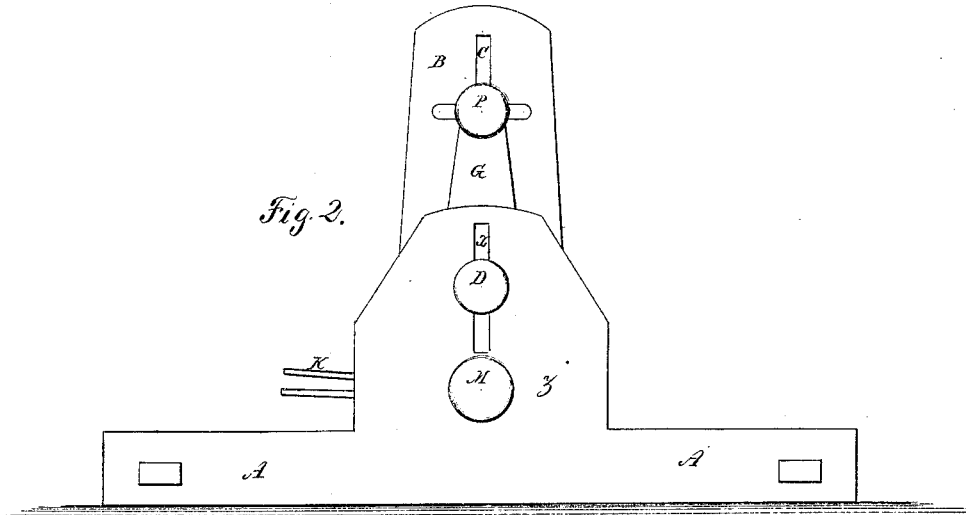


*W. Edwards,*

*Spoke Driver.*

*No. 112021.*

*Patented Feb. 21, 1871.*



*Witnesses.*  
*A. Ruppert,*  
*C. H. Clausen*

*W. Edwards*  
*Inventor.*  
*D. P. Holloway & Co*  
*Atty*

# United States Patent Office.

WESLEY EDWARDS, OF INDIANAPOLIS, ASSIGNOR TO HIMSELF, JOHN HOLLOWAY OF CRAWFORDSVILLE, AND JOHN F. SNIDER, OF INDIANAPOLIS, INDIANA.

Letters Patent No. 112,021, dated February 21, 1871.

## IMPROVEMENT IN IMPLEMENTS FOR DRIVING SPOKES INTO HUBS OR WHEELS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, WESLEY EDWARDS, of Indianapolis, county of Marion and State of Indiana, have invented a new and improved Implement for the Purpose of Driving Spokes in Hubs for Vehicles, &c.; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings making a part of this specification.

Figure 1 is a top view.

Figure 2 is a side elevation.

Figure 3 is an end elevation.

Figure 4 is a view of one of the levers.

Figure 5 is a view of the face-plate.

My invention relates to a machine used in driving spokes into the hubs of wheels; and

The improvement consists in the combination and arrangement of certain devices for holding the spokes in the proper position while being driven, so as to give the proper dish to the wheel.

The following description will enable those skilled in the art to construct my improved spoke-driver.

In the annexed drawing—

A is the frame now commonly in use, and which does not form part of this invention. There is also shown, in fig. 3, a hub and spoke, which do not form a part of this invention.

B and Z are pieces of timber fastened rigidly to the side of the frame A, and projecting vertically, having slots C and X.

In the slots C and X are inserted the screw-bolts D and E respectively, to which are attached the guide F and the spring G.

At the top of the spring G, fig. 3, is attached a screw-bolt, P, with nuts on either side of the spring-head, and by means of said screw-bolt and spring more or less pressure may be placed on the spoke, holding it, in connection with guides F F, in its place while being driven in the hub I.

The levers K K, shown more plainly by fig. 4, are fastened at one end by means of a screw or rivet to the uprights B and Z, and at the other end by ratchets L L, and serve to hold the hub to the proper place. The screw-bolt M, passing through a screw-nut in Z, forces the hollow-centered face-plate N, fig. 5, against the end of the hub, and also assists in holding it in its place.

O O are screw-nuts, by means of which the screw-bolts E may be adjusted vertically in the slot C, and also adjusted horizontally, to give the wheel more or less dish, or inclination of the spokes from the hub.

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

The combination of the adjustable screw-bolts E F and P F and adjustable spring G, all arranged to operate substantially as set forth.

WESLEY EDWARDS.

Witnesses:

C. E. MERRIFIELD,  
D. S. MCKERNAN.