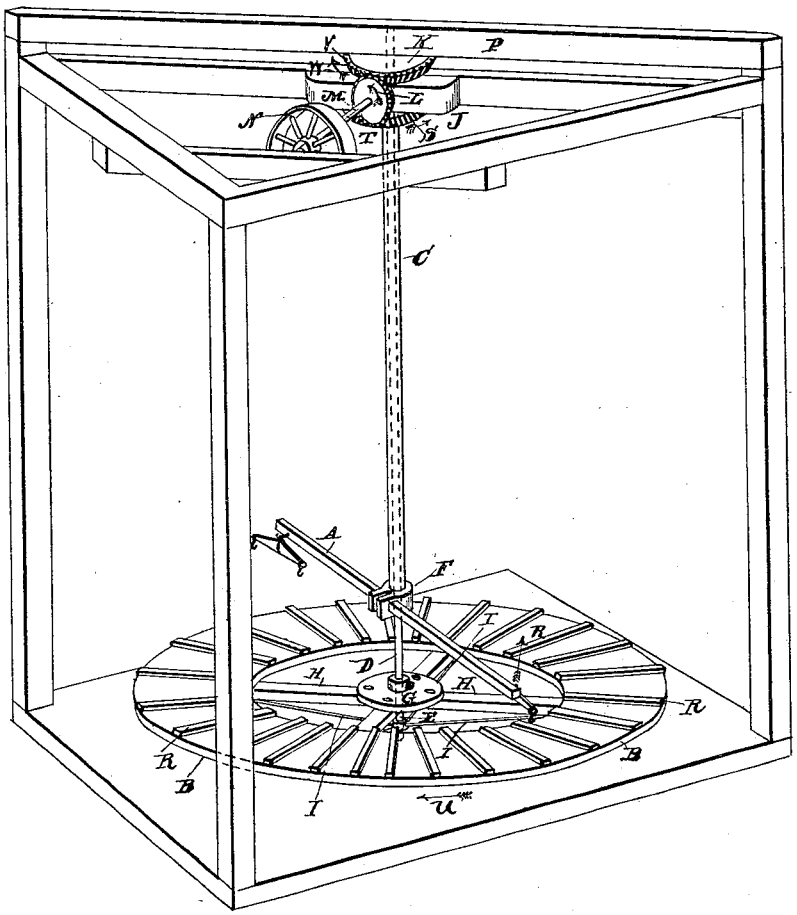
(No Model.)

C. H. TUMEY.

HORSE POWER.

No. 262,152. Patented Aug. 1, 1882.



WITNESSES:
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By Paine & Sawyer.

UNITED STATES PATENT OFFICE.

CHARLES H. TUMEY, OF SAN ANTONIO, ASSIGNOR OF ONE-HALF TO HANCOCK & HANCOCK, OF AUSTIN, TEXAS.

HORSE-POWER.

SPECIFICATION forming part of Letters Patent No. 262,152, dated August 1, 1882.

Application filed May 6, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HENRY TUMEY, a citizen of the United States, residing at San Antonio, in the county of Bexar, State of Texas, have invented a new and useful Horse-Power, of which the following is a specication.

My invention relates to an improvement in horse-powers in which the horse which furnishes the power travels on a circular revolving platform, by means of which all the force expended by the horse is utilized.

The object of my improvement is to convert the force expended by the horse—in pushing as well as in pulling—into power by the use of a solid shaft turned by the revolving platform and working inside of a sleeve-shaft, which is turned by the lever. I attain these objects by the mechanism illustrated in the accompanying drawing, representing a perspective view, and in which—

A A are levers, fastened at F to the sleeve-shaft C C.

B is the platform upon which the horse walks, and is supported by the braces I I, and the beams of which are seen at H H. The platform B is attached at G to the solid shaft D D, which rests and revolves in a gudgeon at E.

The sleeve-shaft C C is attached to the cog-wheel J. The solid shaft D D passes through the sleeve C C, which it supports upon a shoulder at F, and also passes through the cog-wheel J, through the inverted cog-wheel K, to which it is made fast, and into a box set in the beam P. These two cog-wheels J and K bear on opposite sides upon the pinion L, to which is attached the shaft M, on which is the band-wheel N.

The operation of the machine is as follows: As the horse travels in the direction indicated by the arrow R he draws after him the lever A, and by this means turns the sleeve-shaft C C and the cog-wheel J in the direction indicated by the arrow S. The cog-wheel J exerts a force upon the bottom of the pinion L in the direction indicated by the arrow T. The horse at the same time pushes behind him the platform B in the direction indicated by the arrow U, thus turning the solid shaft D D and the cog-wheel K in the direction indicated by the arrow V. The cog-wheel K thus exerts a force upon the top of the pinion L in the direction indicated by the arrow W. The two forces thus exerted by the cog-wheels J and K turn the pinion L, the shaft M, and the band-wheel N.

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

In a horse-power, the combination of the hollow or sleeve shaft C, carrying the sweep or lever A and bevel-gear wheel J, with the revolving platform B, solid shaft D, bevel-gear wheel K, and driven shaft M, having the pinion L, all constructed and relatively arranged as herein shown, to operate in the manner set forth.

CHARLES HENRY TUMEY.

Witnesses:
H. C. RANDOLPH,
JOHN B. COSTA.