

F. J. Culver,

Horse Power.

No. 111,326.

Patented Jan. 31. 1871.

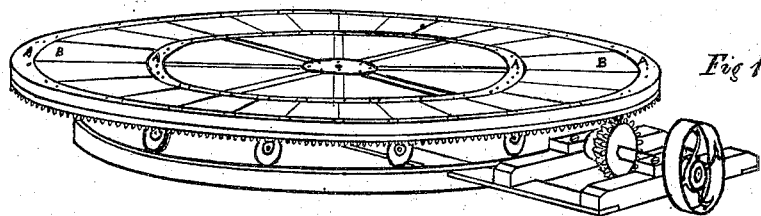


Fig 1

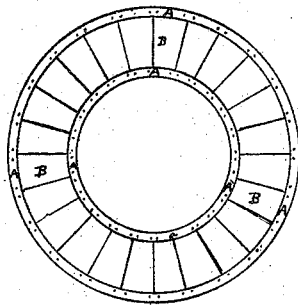


Fig 2

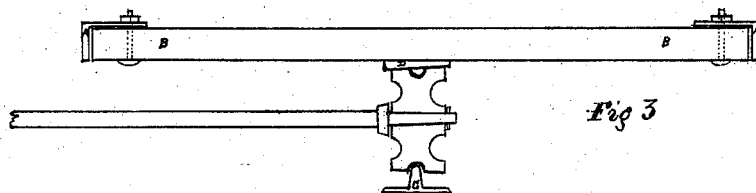


Fig 3

Witnesses

C. Rowland

N. S. English

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United States Patent Office.

FRANK J. CULVER, OF HARTFORD, VERMONT.

Letters Patent No. 111,326, dated January 31, 1871.

IMPROVEMENT IN PLATFORM HORSE-POWERS.

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

I, FRANK J. CULVER, of Hartford, in the county of Windsor and State of Vermont, have invented certain Improvements in Platform Horse-Powers, of which the following is a specification.

Nature and Object of the Invention.

The nature and object of this invention is the construction of an improved platform horse-power, said improvement consisting in the platform and rolls, which insure greater durability, strength, efficiency, and reliability to the machine than the ordinary kind possesses.

In the drawing—

Figure 1 shows a perspective view of the improved platform horse-power.

Figure 2 exhibits a top view of the outer and inner rings of the angle-irons A A A, in connection with the radial plank pieces B B B.

Figure 3 represents a sectional view of the grooved, broad-faced traveling roll resting on the inverted T-rail C below and on the ring-plate D under the platform above.

The new features introduced by this invention are—

First, an outer and inner rim of angle-iron, into which are set and bolted thereto and therein a series of radial pieces of plank forming the platform or portion of the platform on which the horse walks.

Second, a series of grooved, broad-faced traveling rolls running on a circular inverted T-rail, while a

ring-plate or metallic circle fastened to and beneath said platform runs on said rolls.

These grooved, broad-faced traveling rolls afford special and peculiar advantages to this machine over that of others, as they allow a double bearing from the platform circular plate, while there is but a single one upon the rail; they will serve to make the machine perfectly self-adjusting; will save much friction and do away with the necessity of a turned track, such an arrangement removing the objections frequently urged against the ungrooved, narrow-faced, ordinary traveling rolls.

The angle-irons aforesaid, with the radial pieces set therein, as aforesaid, together make a complete platform of great durability and strength, which will not warp and thereby disarrange the regular and proper action of the machine, as the angle-irons keep said combined radial pieces true and even in position.

I am aware that what are called platform-horse-powers have been long known and used, and, therefore, I do not claim such broadly; but

What I do claim is—

A horse-power, improved by having a platform made as aforesaid, and mounted on rolls, constructed as heretofore described.

FRANK J. CULVER.

Witnesses:

C. ROWLAND,
E. R. JENNINGS.