

R. W. Norwood,

Converting Motion.

No. 108,173.

Patented Oct. 11, 1870.

fig. 1.

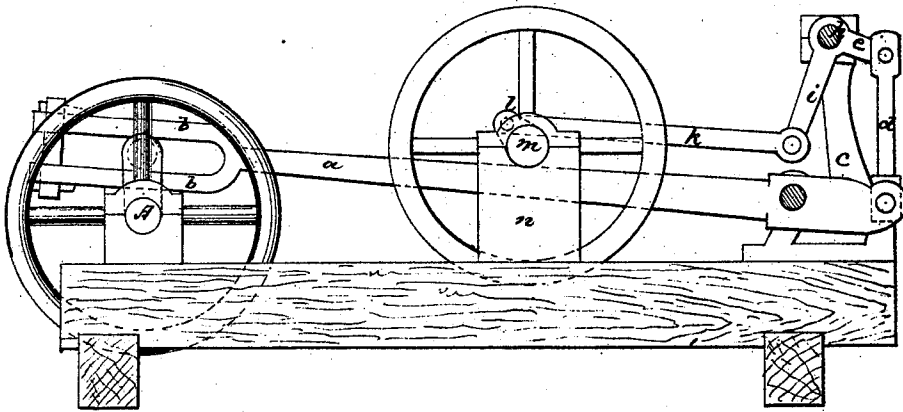
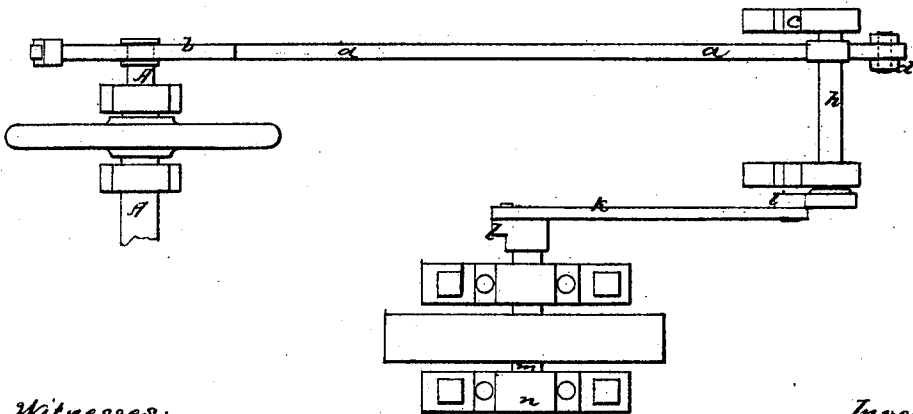


fig. 2.



Witnesses:

Nick Hagmann
E. A. Pettit

Inventor:

R. W. Norwood

per *Munn & Co.*
Attorneys.

United States Patent Office.

RICHARD W. NORWOOD, OF COURTLAND, ALABAMA.

Letters Patent No. 108,173, dated October 11, 1870; antedated October 1, 1870.

IMPROVEMENT IN TRANSMITTING POWER-APPARATUS.

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, RICHARD W. NORWOOD, of Courtland, in the county of Lawrence and State of Alabama, have invented a new and improved Means for Transmitting Power; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a side elevation, and

Figure 2 is a plan view.

This invention consists in the application of an intermediate system of levers between a shaft rotated directly by the piston of a steam-engine and a fly-wheel, from which machinery may be driven.

In the drawing—

A is the shaft, that is driven directly by the piston of a steam-engine.

a is a lever, having one end bifurcated, between whose forks *b b* is a wrist-pin, projecting horizontally from a crank-arm of the shaft A, so that, from the rotation of such shaft, the forked end of the lever receives vertical vibration.

c c are standards, in which is supported the fulcrum of the lever *a*.

d is a rod, connecting the end of the short arm of the lever with the extremity of an arm, *e*, projecting from a rock-shaft, *h*, sustained in suitable bearings in the standards *c*.

i is a second arm, extending downward from the rock-shaft, and connected, by a rod, *k*, jointed to its end, with a short crank, *l*, of the shaft *m* supported in pillar-blocks *n n*, and bearing the fly-wheel *o*.

By the above-described train of mechanism, the motion of the shaft A is communicated to the fly-wheel *o*, from which machinery may be driven with greater power than could be exerted upon it direct from the shaft A.

Having thus described my invention,

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

The combination of the shaft A *m*, lever *a*, connecting-rods *d k*, rock-shaft *h*, and arms *e i*, in the manner and for the purpose specified.

R. W. NORWOOD.

Witnesses:

CHAS. A. PETTIT,
SOLOM C. KEMON.