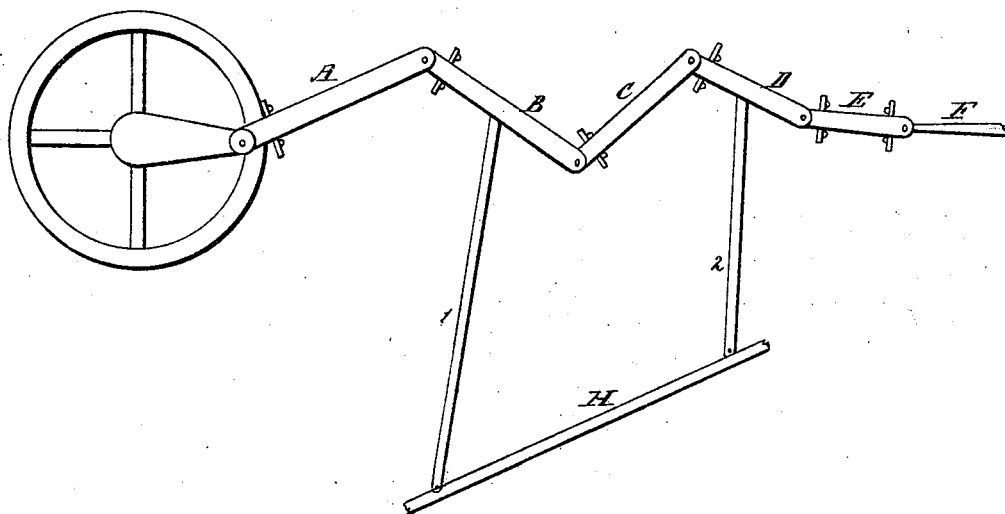
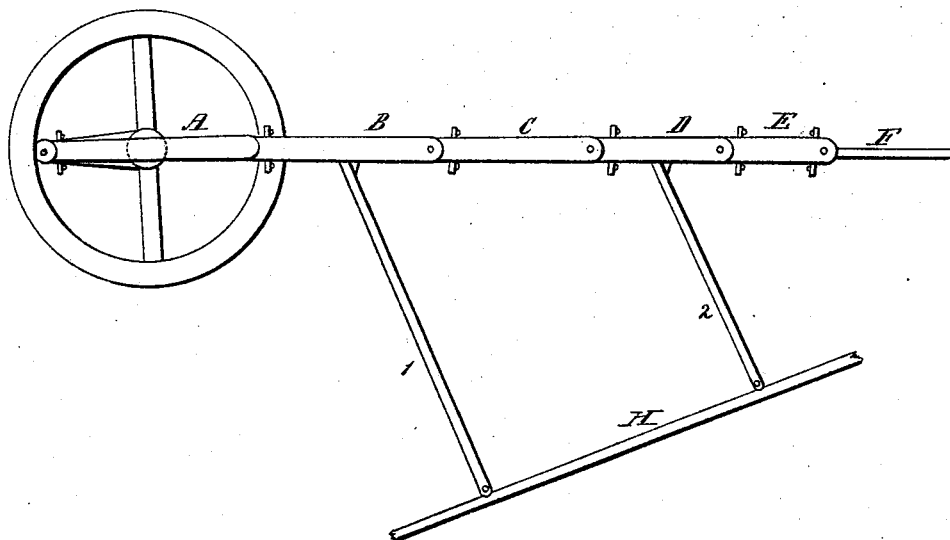


R. Curnutt,
Connecting Rod.

No. 5,385.

Patented Dec. 4, 1847.



UNITED STATES PATENT OFFICE.

REUBEN CURNUTT, OF GEORGETOWN, MISSOURI.

IMPROVEMENT IN CONNECTING-RODS, PITMEN, &c.

Specification forming part of Letters Patent No. 5,385, dated December 4, 1847.

To all whom it may concern:

Be it known that I, REUBEN CURNUTT, of Georgetown, in the county of Pettis and State of Missouri, have invented a new and Improved Pitman or Connecting-Rod, composed of several parts jointed together, in combination with braces for controlling their motions, the whole constructed and operating in the manner and for the purpose hereinafter described.

To enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, viz:

I secure to the wrist the first piece, A, double the length of the crank; to A the second piece, B, which is one-eighth of the circle performed by the wrist shorter than A; to B the third piece, C, shorter in the same proportion than B; to C the fourth piece, D, shorter than C in the same proportion. To D, I secure one end of E and the other to piston F, being of equal length with the crank. To B and D are permanently fixed the braces Nos. 1 and 2, each double the length of the piece of the pitman or connecting-rod to which it is attached; the other ends secured to H, the brace-beam, by a joint or hinge that will allow the other ends to move with the pitman or connecting-rod, leaving the connecting-rod at an angle of sixty-five or seventy degrees inclining toward the cylinder in steam-engines, or to the crank in saw-mills. This connecting-rod or pitman should be so arranged that it will be straight

when the crank is farthest from the cylinder, when its operation will be as follows: As the cylinder receives the piston, the braces, being so arranged, crook the connecting-rod or pitman and shorten it the length of the crank, thus requiring only half the usual length of cylinder and keeping up a continual force on the crank during its revolutions, except at the dead-points.

By the application of my improved pitman or connecting-rod to machinery double power may be acquired—in fact, the power may be unlimitedly increased in proportion to the extension of the crank and connecting-rod, performing the same labor of ordinary machinery at half the expense of fuel, boilers, &c.

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

A pitman or connecting-rod composed of several parts jointed together, in combination with the braces for controlling their motions, the whole constructed and operating in the manner and for the purpose described.

I do not by the foregoing claim limit myself to the particular construction of said pitman, but shall vary it so far as size and position of braces are concerned, yet producing the same effect by analogous means.

REUBEN CURNUTT.

Attest:

SOL. I. LOWE,
D. D. FEAR.