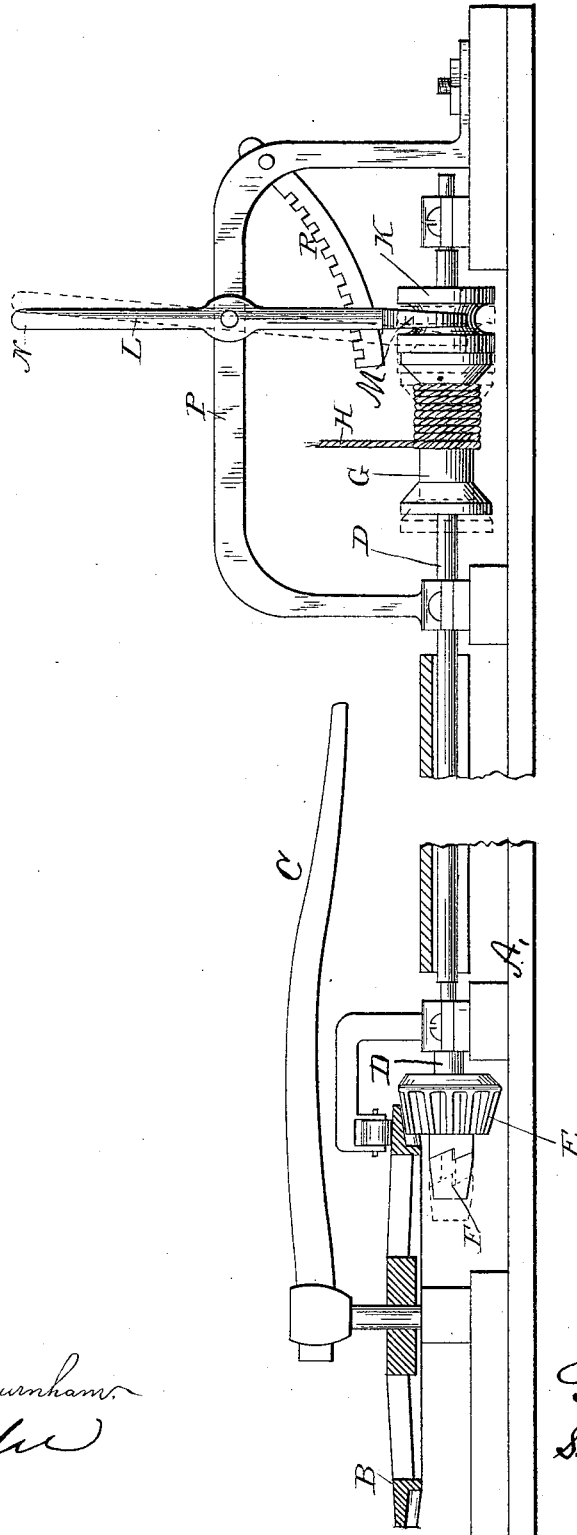


(No Model.)

G. SOWERS.
HORSE POWER.

No. 348,246.

Patented Aug. 31, 1886.



Witnesses:

Frank M. Burnham.

W. Chaffee

Inventor:

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Atty.

UNITED STATES PATENT OFFICE.

GEORGE SOWERS, OF WEBSTER, ILLINOIS.

HORSE-POWER.

SPECIFICATION forming part of Letters Patent No. 348,246, dated August 31, 1886.

Application filed January 7, 1886. Serial No. 187,870. (No model.)

To all whom it may concern:

Be it known that I, GEORGE SOWERS, of Webster, in the county of Hancock and State of Illinois, a citizen of the United States, have
5 invented a new and useful Improved System of or Process and Means for Horse-Powers, which is made, practiced, and used substantially as set forth hereinafter, and as shown in the accompanying drawing, in which the figure is a sectional elevation of the horse-power
10 apparatus.

This invention relates to an improved horse-power mechanism, adapted to operate hay-forks on stackers and in barns without the
15 awkwardness of backing a horse to let the rope run back after the load is dropped.

The invention consists in the construction and arrangement of a circular sweep horse-power having a spool-winding drum on the
20 tumbling-rod shaft to wind up the rope, and a hand lever and clutch arranged to throw the shaft into and out of gear, so as to wind up and let out the rope, as required, without interfering with the continuous forward motion of
25 the horse.

The frame A supports, with suitable bearings, the large horizontal master-wheel B, to which is attached the sweep-lever C, (one or more,) to which the horse is attached to turn
30 wheel B. A shaft, D, is held in bearings on frame A, so as to admit of endwise movement and rotation, and bears a loose bevel spur-wheel, E, which engages with wheel B to turn tumbling-rod shaft D. The tumbling-rod D
35 bears a block, F, having a face-ratchet to engage with a like ratchet on wheel E to rotate rod D. A spool or drum, G, is borne on shaft D, and arranged to forcibly wind up the rope H as the shaft is turned, so as to lift and

draw up the loaded fork. The shaft D bears a
40 block, K, with flanges or means of engagement with a hand-lever, L, arranged so the shaft may be moved lengthwise by the lever to bring the clutch-block F into engagement with
45 wheel E to turn the shaft, or out of such engagement, so as to free the shaft and let the rope run back. The hand-lever L has a handle, N, and a fork or means of engagement, M, to connect with block K, and is pivoted to a
50 support, P, so as to be moved back and forth to move the shaft D. A ratchet, R, is arranged to hold the lever, so as to hold the clutch into or out of gear, as desired.

To wind up the rope and raise the fork with its load, the lever L is pushed into the position shown in full lines from the position shown
55 in dotted lines, to throw the clutch-shaft and drum G into action. To let the rope and fork run back, the lever L is drawn back into the position shown in dotted lines, so as to push
60 forward the rod D and disconnect the block from wheel E, so the shaft is freed to let the spool G turn to let the rope run off the spool.

Various modifications can be made. The block K may remain stationary or turn.
65

I claim—

The horse-power having a master-wheel, B, with draft-lever C and a loose spur-wheel, E, engaging therewith, mounted upon a shaft, D, having adaptation for endwise movement,
70 combined with windlass-spool G on shaft D, and lever L, adapted to move the shaft D into and out of clutch with spur-wheel E, substantially as and for the purpose set forth.

GEORGE SOWERS.

Witnesses:

DAVID MACK,
WILLIAM BAIRD.