

W. H. J. GOODWIN.
MOTOR.

Patented Aug. 22, 1882.

Fig. 1.

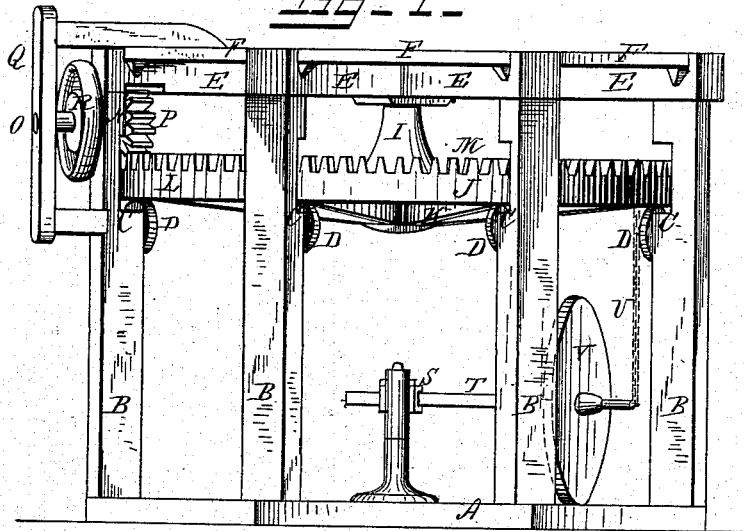


Fig. 2.

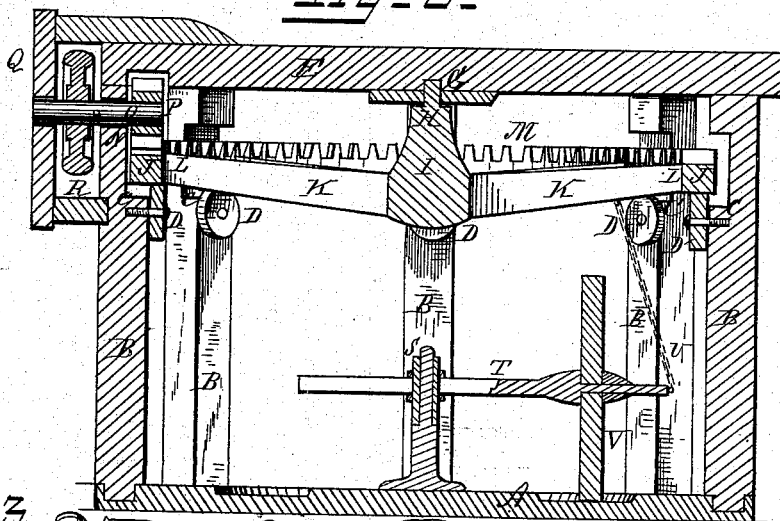
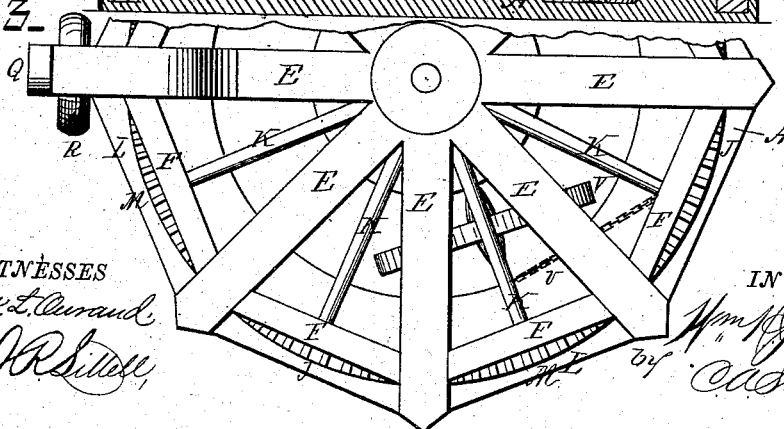


Fig-3-



Frank L. Curand

J.R. Sillescu

Wm H. Goodwin,
by Adnor H.
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM H. J. GOODWIN, OF RALEIGH, NORTH CAROLINA.

MOTOR.

SPECIFICATION forming part of Letters Patent No. 262,947, dated August 22, 1882.

Application filed July 15, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. J. GOODWIN, of Raleigh, in the county of Wake and State of North Carolina, have invented certain new and useful Improvements in Motors; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to motors, and has for its object to provide simple, inexpensive, and efficient means for operating any machinery that is adapted to take motion from a sweep or circularly-traveling arm, or from a band-wheel.

To this end it consists in certain improvements in the construction and operation of the same.

In the drawings, Figure 1 is a side view of the device; Fig. 2, a vertical sectional view; Fig. 3, a top view.

Referring to the drawings, A designates the base, at the edge of which is arranged a series of vertical posts, B, each having a shoulder, C, on its interior side, under which shoulder, and projecting slightly above the same, is journaled a roller, D. The posts B are braced at their tops by radial beams E, connected at their ends by cross-strips F, and provided at the center with bearings in the under side, G, for a pin, H, in the hub I of a large pendent wheel, J. The latter comprises spokes K, extending from hub I and carrying a circular rim, L, the top surface of which is provided with cogs M. This rim travels on rollers D and over shoulders C, so that should any of the rollers become disabled the wheel would be supported by the shoulders and prevented from falling, it being normally entirely supported by the rollers.

In one of the posts B is formed, above its shoulder C, a bearing, N, for a horizontal shaft, O, carrying at its inner end a pinion, P, which engages wheel J. The outer end of shaft O is journaled in a bracket, Q, arranged on post B, and carries a band-wheel, R, by which power is communicated to drive the motor.

Under hub I is pivoted, as at S, the drive-arm T, to the outer end of which is secured a drive chain or rope, U, extending up and se-

cured to one of the spokes of wheel J. V is a wheel journaled on arm T, and serving as an additional support therefor.

The operation and advantages of my invention will be readily understood.

Motion is communicated to band-wheel R, which transmits it, through pinion P, to the wheel M, causing the latter to draw on chain U to operate the arm or sweep T, the motion of the latter being utilized to run any adapted machinery. On the other hand, by attaching animal-power to the sweep the motion of the device may be reversed and the power utilized from band-wheel R. By traveling on the rollers at some distance from the shoulders should the wheel fall on the latter it will break its engagement with the pinion, and the wheel will stop.

I claim and desire to secure by Letters Patent—

1. In a motor, the combination of vertical posts B, each having a shoulder on its interior side, under which and slightly projecting above is journaled a roller, one post being provided with bracket Q and bearings N above its shoulder for shaft O, carrying pinion P, radial top beams, E, having end cross-strips, F, and central bearing, G, wheel J, having hub I, provided with pin H, and circular rim L, having its top surface provided with cogs, connecting chain or rope U, extending from wheel J, and drive rod or arm T, substantially as set forth.

2. In a motor, the combination, with the series of vertical posts B, each having a shoulder on its interior side near the top, journaled under which, but projecting above, is a roller, and radial top beams, E, having central bearing, G, of the revolving wheel J, having hub I, provided with pin H, spokes K, and rim L, traveling on the rollers above the shoulders, so that should any of the former become disabled the wheel will be supported by the shoulders, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM H. J. GOODWIN.

Witnesses:

JNO. H. BELIM,
J. H. MERRIMON.