

W. SCHUYLER.

Improvement in Horse-Powers.

No. 131,413.

Patented Sep. 17, 1872.

Fig. 1.

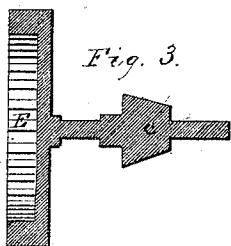
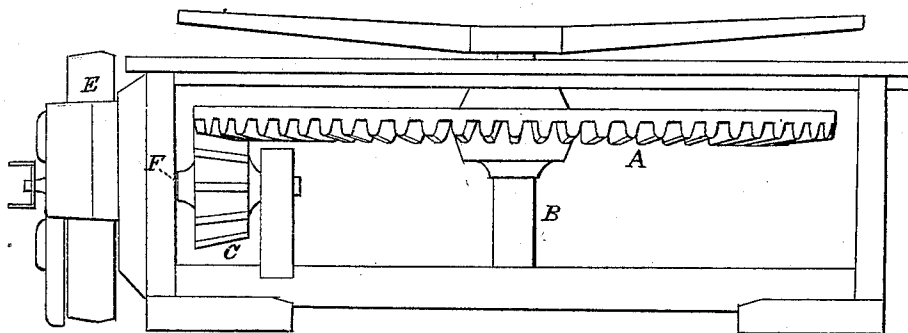
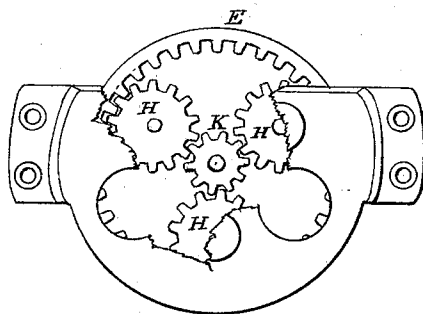


Fig. 2.



William Schuyler, Inventor
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Witnesses:

H. A. Daniels
Geo. N. Norris

UNITED STATES PATENT OFFICE.

WILLIAM SCHUYLER, OF ORANGEVILLE, PENNSYLVANIA.

IMPROVEMENT IN HORSE-POWERS.

Specification forming part of Letters Patent No. **131,413**, dated September 17, 1872.

To all whom it may concern:

Be it known that I, WILLIAM SCHUYLER, of Orangeville, in the county of Columbia and State of Pennsylvania, have invented certain Improvements in Horse-Power; and do hereby declare that the following description, taken in connection with the accompanying drawing, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature of my said improvement, by which my invention may be distinguished from others of a similar class, together with such parts as I claim and desire to secure by Letters Patent.

My invention relates to that class of machines known as horse-powers; and the nature thereof consists in certain modifications in the details of the construction of the same, hereinafter described and shown.

In the accompanying plate of drawing, which illustrates my invention and forms a part of the specification thereof, Figure 1 is a side view of the machine. Fig. 2 illustrates the gearing by which the tumbling-rod is directly operated.

The construction and operation of my invention are described as follows: The main driving-wheel A is rigidly attached to or cast solid with the upright shaft or spindle B, to which the power is directly applied. Upon the under side of the wheel are slightly-beveled cogs, which engage with the bevel-gear C and impart continuous rotary motion to the internally-toothed spur-gear E, one side of which is

cast solid with the shaft F. H H H designate three pinions the centers of which form, with each other, an equilateral triangle. The said pinions have their bearings upon studs rigidly attached to the casing I, and uniform rotary motion is imparted to the same by the revolution of the internally-toothed spur-gear E. The pinions H engage with and actuate the central pinion K, which is directly attached to the tumbling-rod. By this arrangement the pressure brought to bear in rotating the central pinion K is equalized.

The whole apparatus is made light and portable, and may be taken apart for transportation and put together with ease.

Having described the construction and operation of my invention, I will state what I claim and desire to secure by Letters Patent in the following clauses—that is to say: I claim—

1. The internally-toothed wheel E, driven by the wheels H, arranged around the gear K, and operated by the driving-wheel A and pinion C, substantially as and for the purpose specified.

2. I claim the internally-toothed wheel E and pinion C, when cast together, substantially as set forth.

In witness that I claim the foregoing I have subscribed my name hereto this 9th day of December, 1871.

WILLIAM SCHUYLER.

Witnesses:

F. C. EYER,
C. W. MILLER.