M. Perl.

Insect Destroyer.

No. 91,365. Patented Jun. 15, 1869.

Fig. 1.

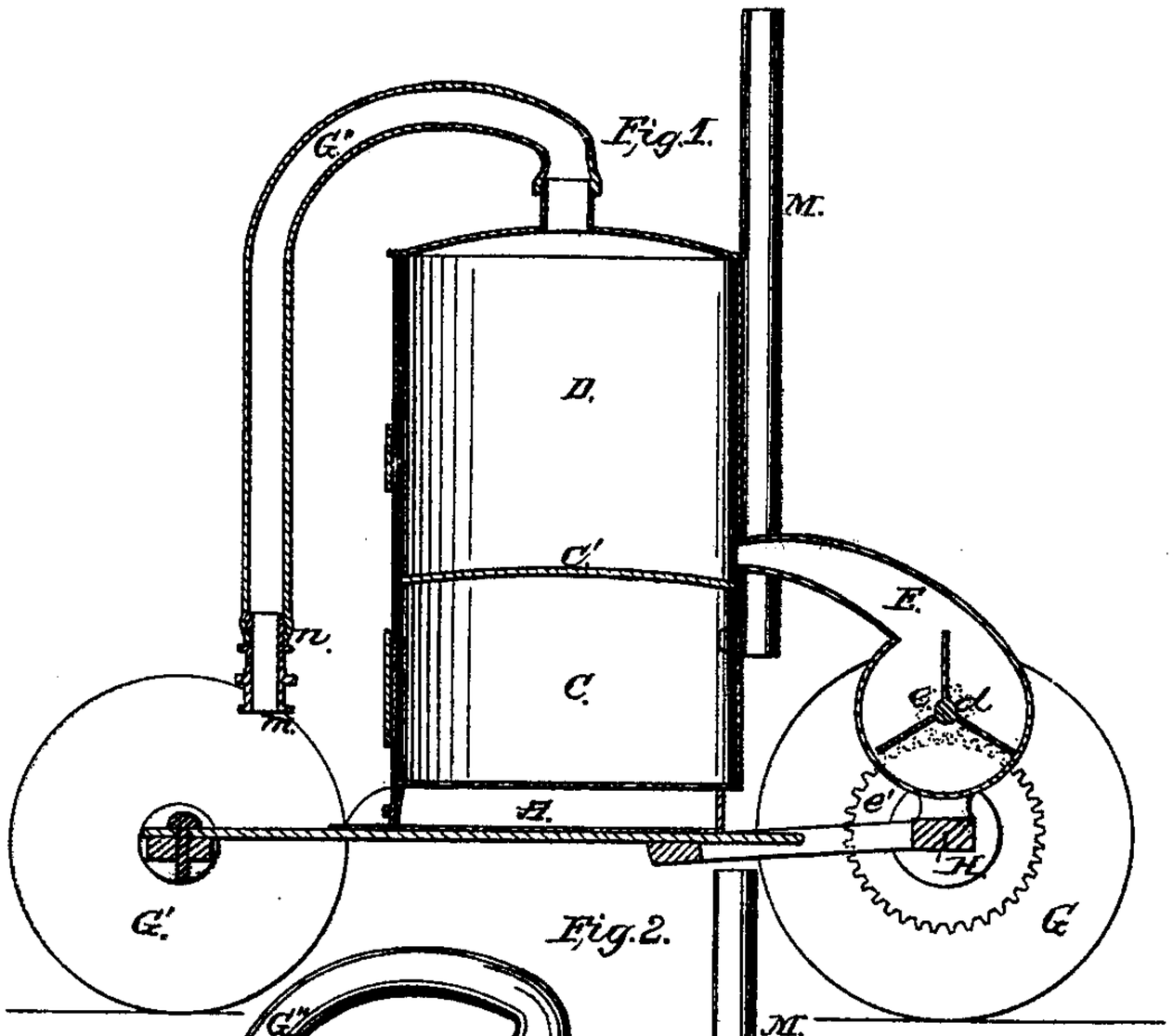
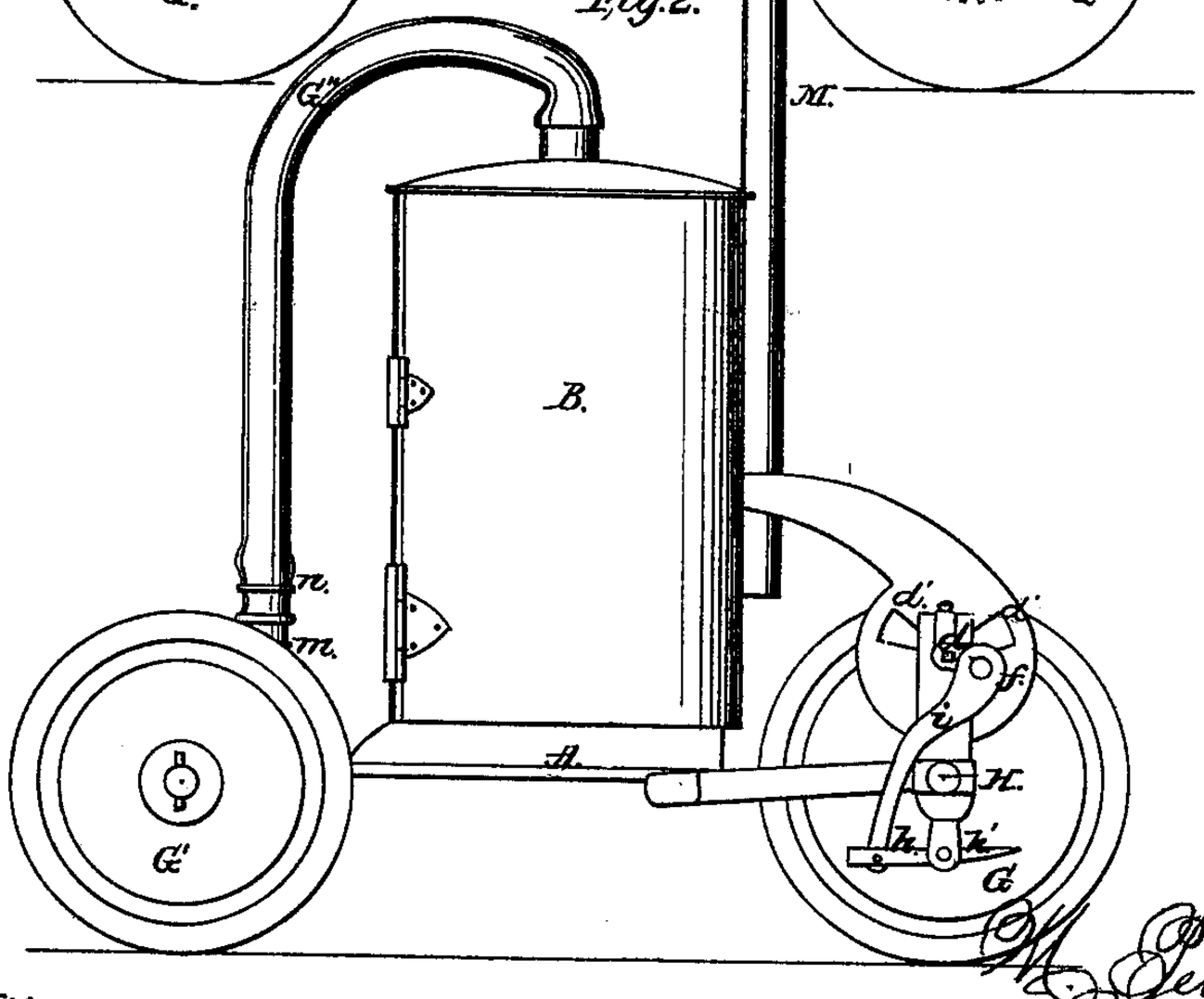


Fig. 2.



Witnesses.

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per
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M. PERL, OF HOUSTON, TEXAS.

Letters Patent No. 91,365, *dated June* 15, 1869; *antedated June* 9, 1869.

IMPROVEMENT IN APPARATUS FOR DESTROYING WORMS ON COTTON-PLANTS.

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, Dr. M. PERL, of the city of Houston, in the county of Harris, and State of Texas, have invented certain new and useful Improvements in a Machine for Destroying Cotton-Worms and other Insects; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 represents a vertical section, and

Figure 2, a side elevation, with one wheel removed of my machine for destroying cotton-worms, &c.

Similar letters indicate like parts in both figures.

My invention consists in the employment of a wagon, upon which is placed a gas-generator, provided with a fire-box in its lower chamber, and a bellows attached to its lower end, worked by means of a pulley, substantially as hereinafter described.

To enable others to make and use my invention, I will now describe its construction and operation.

In the accompanying drawings—

A represents a common wagon, constructed to suit the different sections of country where it may be used, to go between two rows of cotton, where it grows large and wide apart, or in other sections, where it is smaller and planted near together.

Upon the wagon A is placed the gas-generator B, consisting of a fire-box, *c*, separated from the upper part of the generator by a concavo-convex bottom, *c'*.

To the upper chamber D of the generator is attached one end of the blower, or bellows E.

This bellows is provided with a shaft, *d*, upon which are secured metal wings *d'*.

On one end of the shaft *d* is attached the cog-wheel *e*, gearing into the cog-wheel *e'*, secured to the wagon-wheel G.

The other end of the shaft is provided with a crank, *f*, which is attached to upper end of pitman *i*, the lower end of this pitman being attached to the pedal *h*, secured to pendants *h' h'*, attached to the under side of the axle-tree H.

G″ is a hose, with a perforated nozzle, *m*, and stop-cock, *n*, which is attached to the top of the gas-generator.

M is the chimney.

The machine can be operated, when in motion or stationary, in the following manner:

A fire is made in the fire-box *c*, and a certain quantity of sūlphur is placed in the gas-generator B, in order to form sulphurous gas.

The blower E is set in operation, when in motion, by the cog-wheels *e e'*, and, when stationary, by detaching the cog-wheel *e'*, and attaching it to the crank *f*.

The action of the blower, or bellows, will not only furnish sufficient air in forming the sulphurous gas, but it will also force the gas through the hose to any desired point.

Having thus fully described my invention,

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

The combination of wagon A with gas-generator B, blower E, cog-wheels *e e'*, crank *f*, and hose G′, constructed, arranged, and operated substantially as described.

In testimony that I claim the foregoing as my own, I affix my signature, in presence of two witnesses.

DR. M. PERL.

Witnesses:

M. MART,

A. REICKARDT.