(No Model.)

2 Sheets—Sheet 1.

A. BAKER.

DUMPING PLATFORM.

No. 387,334. Patented Aug. 7, 1888.

Fig. 1.

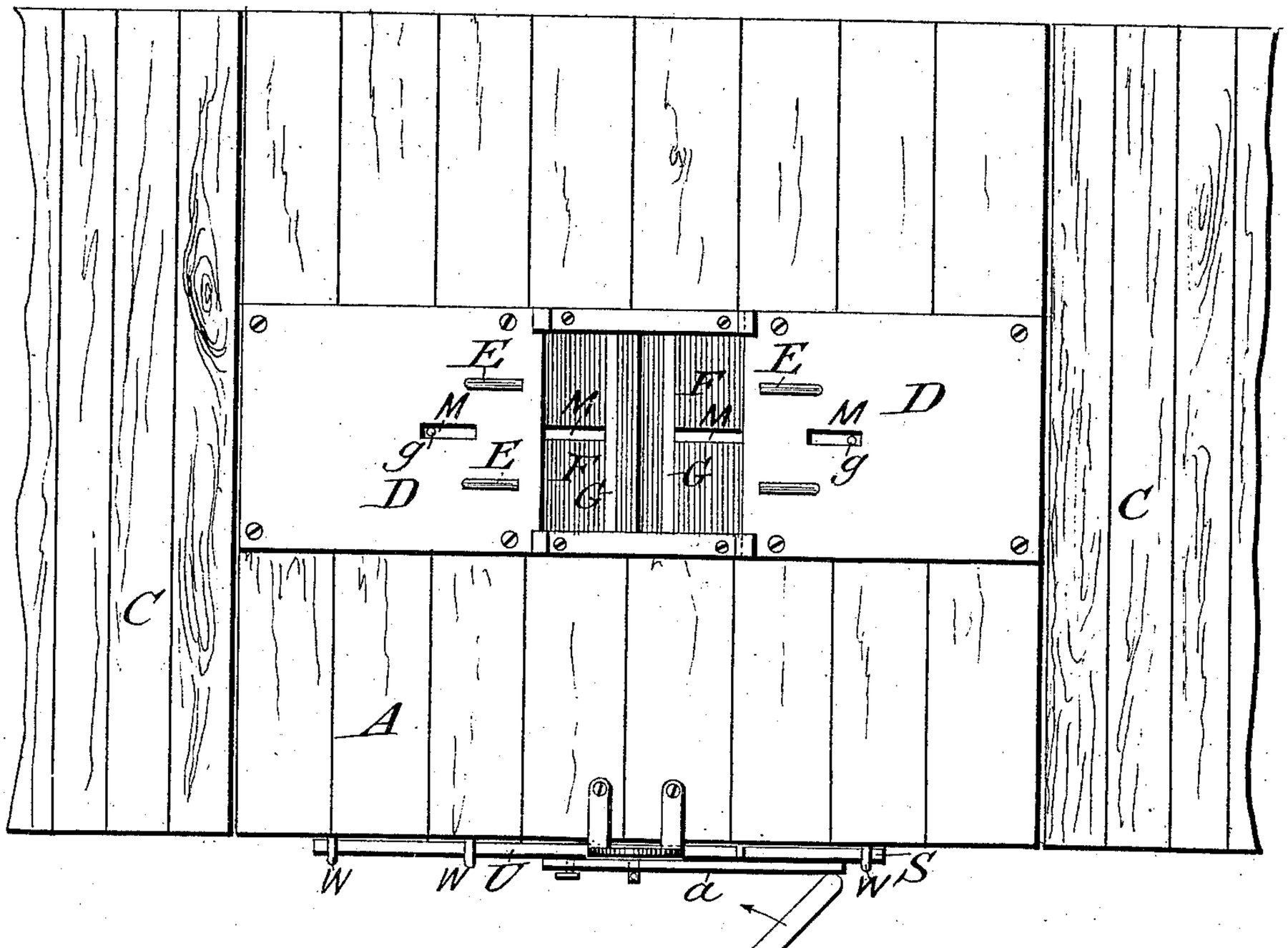
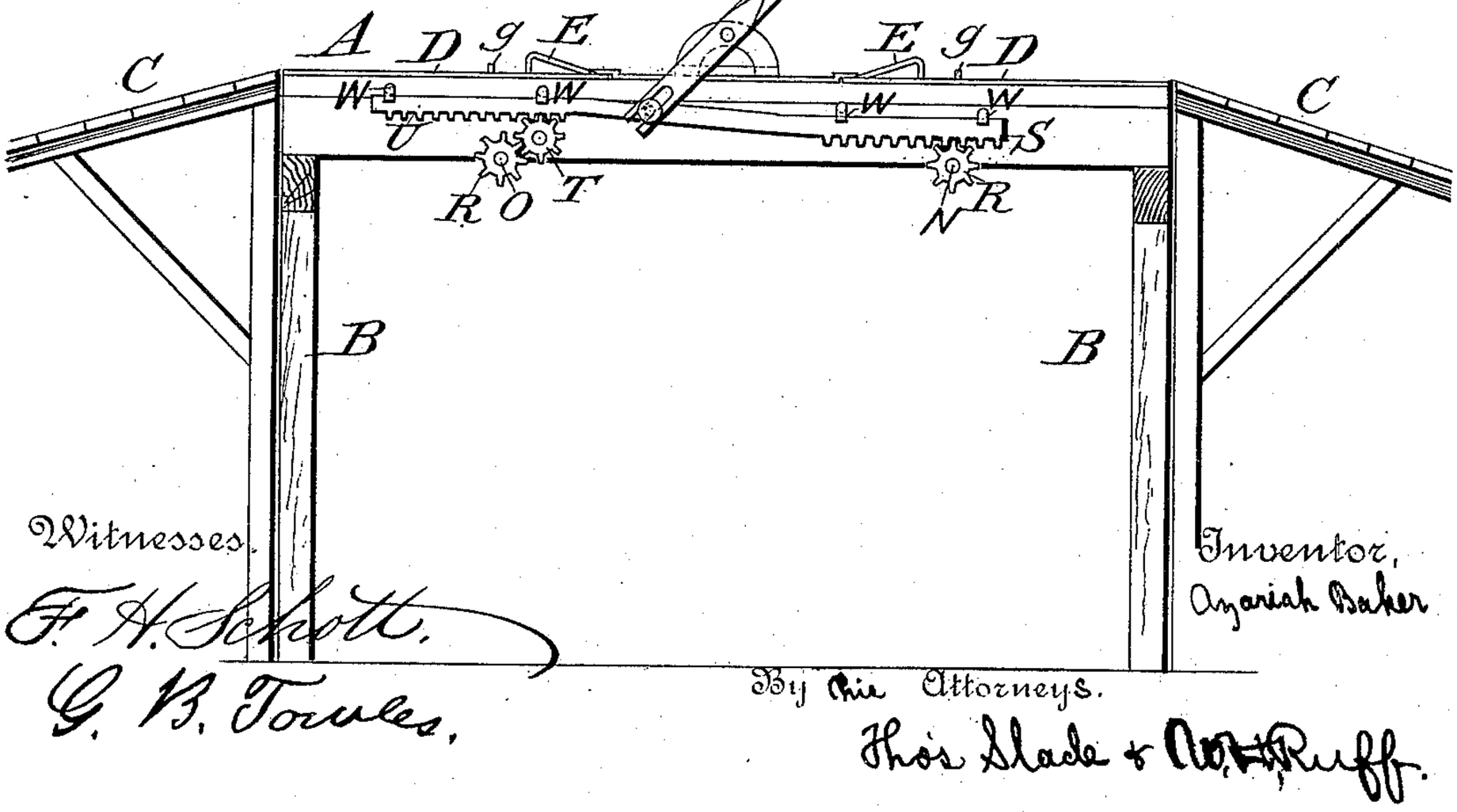


Fig. 2.



Witnesses.
F. A. Schott.
G. B. Fowles.

Inventor,
Ayariah Baker
By his Attorneys.
Thos Slade & Aug. Ruff.

(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

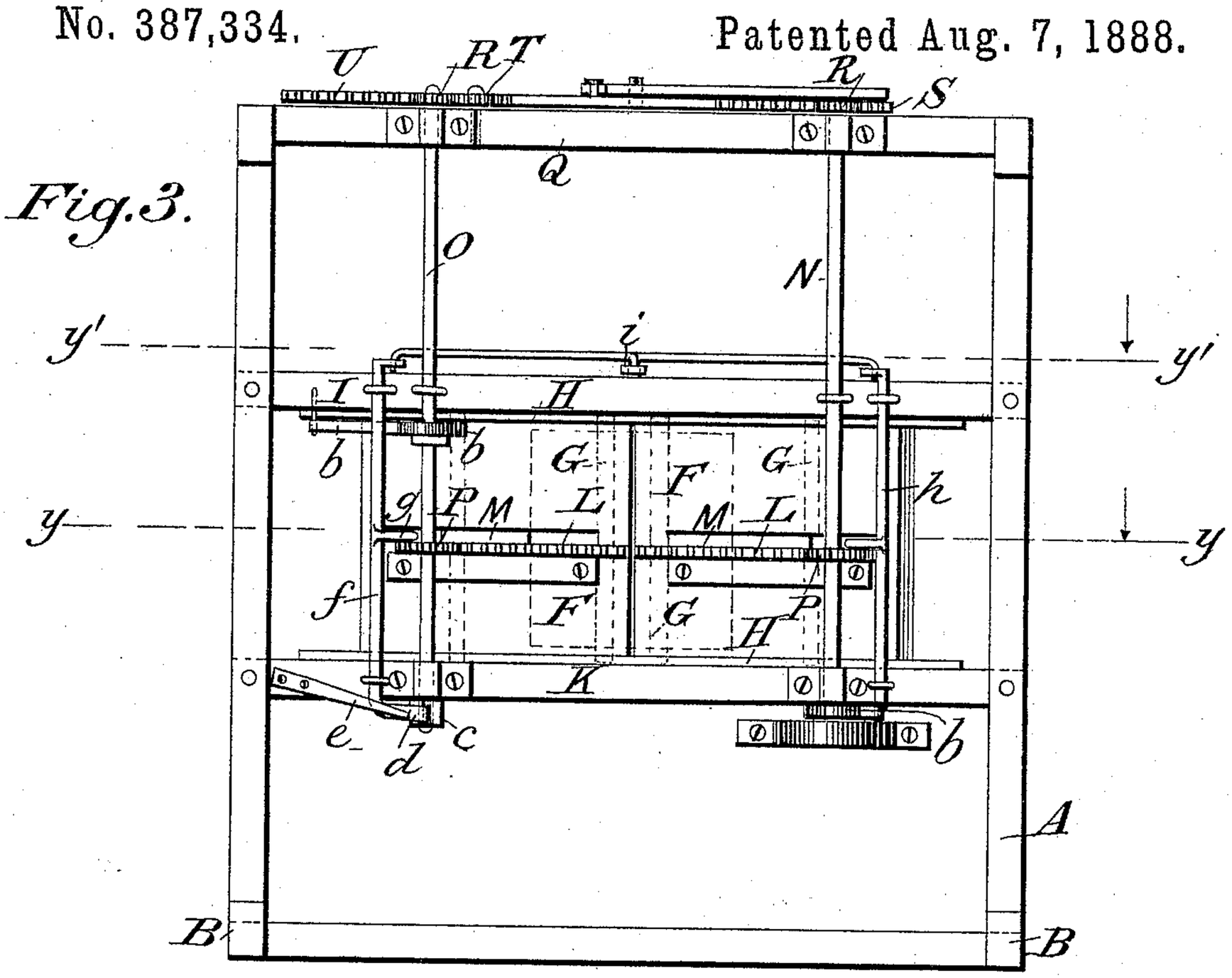


Fig. 4. y.y.

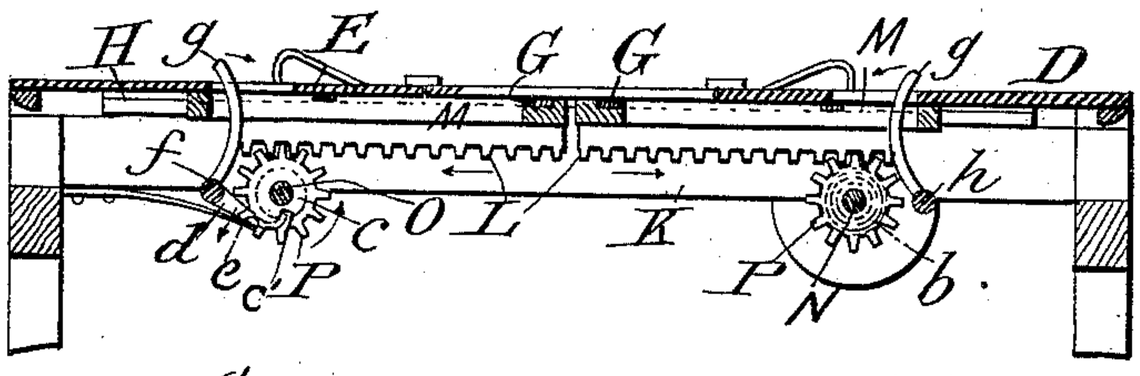


Fig. 5. y.y.

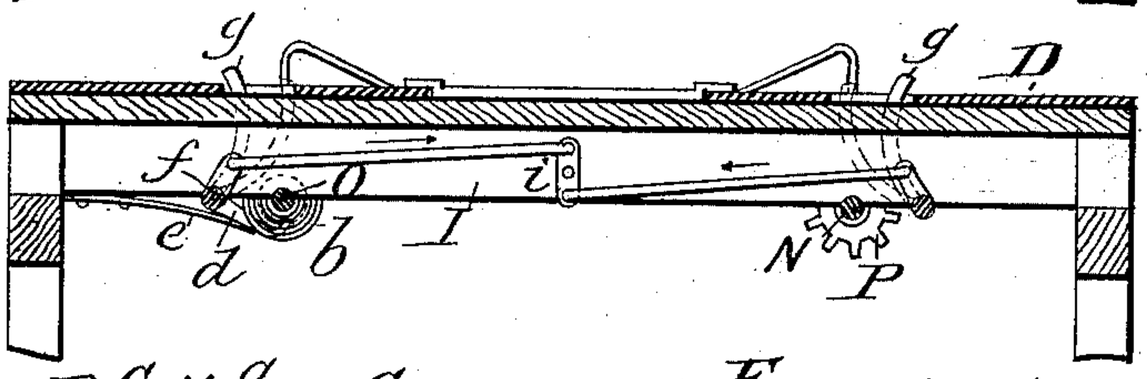
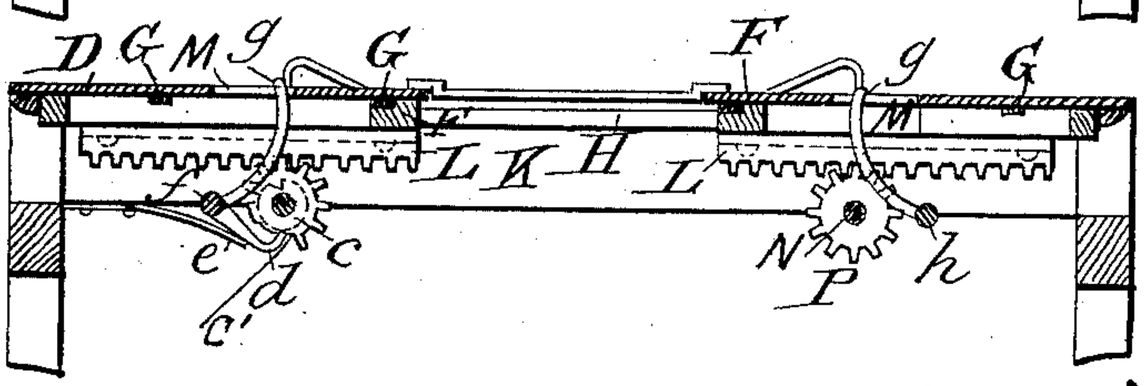


Fig. 6.



Witnesses.

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Inventor.

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By his Attorneys

Thos Slade & Co. Ruff.

UNITED STATES PATENT OFFICE.

AZARIAH BAKER, OF BLOOMINGTON, ILLINOIS.

DUMPING-PLATFORM.

SPECIFICATION forming part of Letters Patent No. 387,334, dated August 7, 1888.

Application filed October 13, 1887. Serial No. 252,230. (No model.)

To all whom it may concern:

Be it known that I, AZARIAH BAKER, of Bloomington, in the county of McLean, and in the State of Illinois, have invented certain new and useful Improvements in Dumping-Platforms; 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, making a part of this specification.

My invention relates to an improvement in machines for unloading road-scrapers directly into carts or wagons by means of an elevated platform, the same being provided with sliding gates adapted to be automatically opened by the scraper coming in contact with mechanism connected therewith.

A further object is to provide a platform of the above character which shall be simple and economical in construction and durable and efficient in use; and with these ends in view my invention consists in the certain features of construction and combinations of parts, as will be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a top plan view of the platform with the gates closed. Fig. 2 is a view in side elevation. Fig. 3 is a bottom plan view. Fig. 4 is a section on *y y*. Fig. 5 is a section on *y' y'*. Fig. 6 is a section on *y y*, showing the gates open.

A represents the platform, mounted on the standards B and provided with the inclines C, leading to the ground. D D are metallic plates provided with the lugs E, to stop the scraper and prevent it from going too great a distance rearward. Beneath the plates D are located the sliding gates F, provided with the slides G, adapted to run on the tracks H, secured on the beams I and K. The bottoms of the gates are provided with the rack-bars L, located near the open slots M.

To the beams I and K are journaled the shafts N and O, each of which is provided with cog-wheels P, gearing with the rack-bars L. The outer ends of the shafts are journaled to the beam Q, and are provided with the cog-wheels R, the wheel on the shaft N meshing directly with the rack-bar S, while the wheel on the shaft O engages the wheel T, which meshes with the rack-bar U. The racks S and U are formed on the same bar and are held in position on the platform by means of the staples W and the lever *a*, pivoted to the side of the platform, as shown.

To the shafts N and O are secured the coil-springs *b*, the tension of each being toward each other, causing the wheels R to turn inwardly with the bars L, and thus keep the gates F open when not locked.

The shaft O is provided on its inner or free end with the ratchet-wheel *c*, rigidly secured thereto and having two notches, *c'*, diagonally opposite each other, formed therein. The pawl *d* engages said ratchet-wheel, and is held in engagement therewith by means of the spring *e* bearing against the same.

The pawl *d* is formed on the free end of the rod *f*, which is centrally provided with the trigger *g*, protruding through the open slot M. The rod *f* is joined to the rod *h* by means of the link-coupling *i*, pivoted to the side of the platform. The gates are closed by means of the lever *a*, which, when actuated, causes the gears to rotate the shafts N and O toward each other, thereby causing the gates to slide toward each other. When the gates are firmly closed, the pawl *d* will be in engagement with one of the ratchets on the wheel *c*, which will hold the gates in such closed adjustment. When the scraper strikes the trigger *g* and pushes it toward the center, the rod F will turn, carrying the pawl *d* with it, thereby releasing the ratchet-wheel *c*, and the gates are opened by means of the pressure exerted by the springs *b* upon the shafts N and O.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a dumping-platform, the combination, with a lever connected with shafts by means of suitable gearing, the said shafts being provided with tension-springs, sliding gates having rack-bars, gear-wheels meshing with said rack-bars, and a ratchet-wheel on one of said shafts, of a pawl adapted to engage the ratchet and a trigger for automatically releasing the ratchet and opening the gates, substantially as shown and described.

2. In a dumping-platform, the combination,

with a lever connected with the shafts by means of suitable gearing, sliding gates and rack-bars secured thereto, cog-wheels on the shafts gearing with said rack-bars, and a ratchet-wheel on one of said shafts, of a pawl adapted to automatically engage the ratchet and lock the gates in closed adjustment, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 26th day of September, 1887.

his
AZARIAH + BAKER.
mark.

Witnesses:
THOS. SLADE,
ALMA E. SLADE.