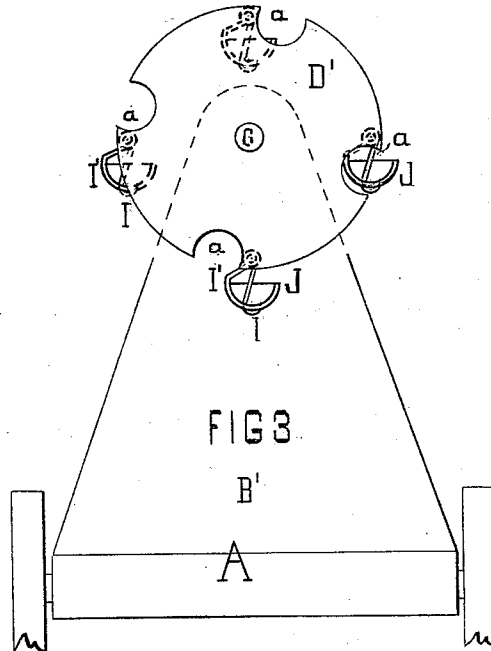
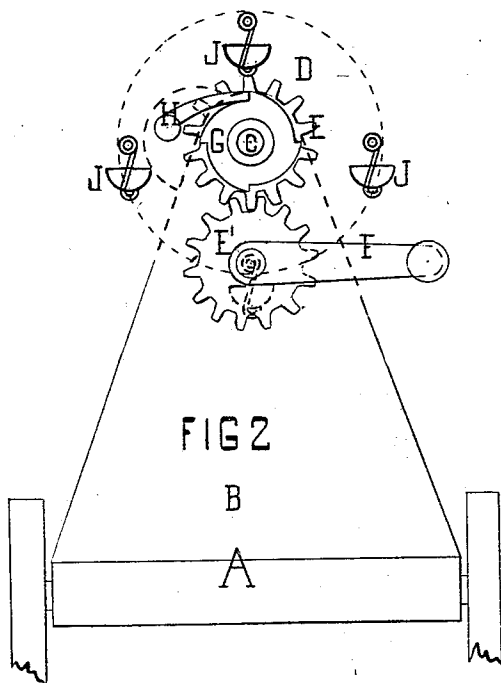
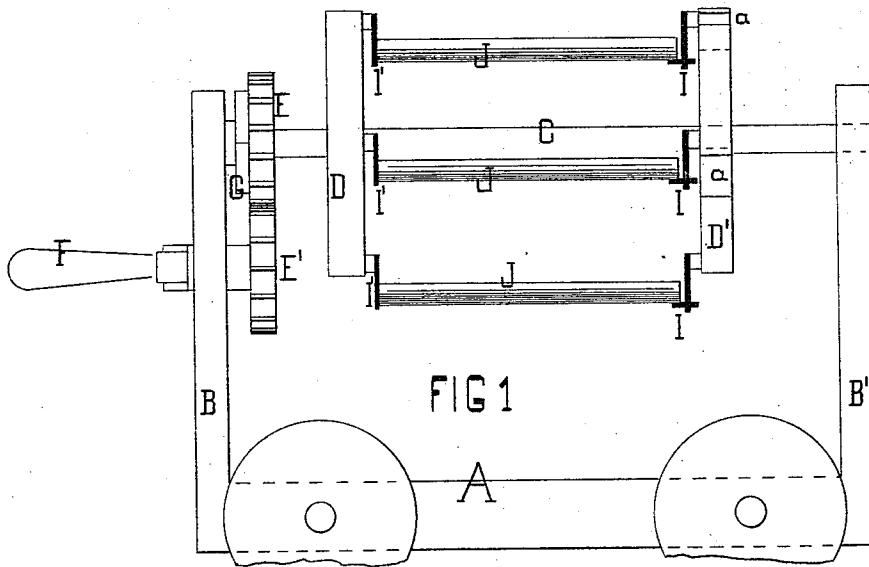


P. MUNZINGER.
Gas-Retort Chargers.

No. 148,841.

Patented March 24, 1874.



WITNESSES
Asst. Master
Robt. Carr

INVENTOR
Peter Munzinger
by Francis D. Pastorius
his atty

UNITED STATES PATENT OFFICE.

PETER MUNZINGER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
MORRIS TASKER & CO., OF SAME PLACE.

IMPROVEMENT IN GAS-RETORT CHARGERS.

Specification forming part of Letters Patent No. **148,841**, dated March 24, 1874; application filed
February 3, 1874.

To all whom it may concern:

Be it known that I, PETER MUNZINGER, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Scoop-Wagon for Gas-Works, of which the following is a specification:

The invention consists, first, of a revolving scoop-carrier in connection with a wagon or other suitable carrying device; second, of a revolving scoop-carrier in connection with suspension or scoop-carrying devices; third, of a revolving scoop-carrier in connection with geared wheels for working the same; fourth, of a revolving scoop-carrier in connection with a ratchet-wheel and a detent for holding the said scoop-carrier in any required position.

Figure 1 is a side elevation. Fig. 2 is an end elevation, the vertical or housing at that end being sectioned or shortened to exhibit the geared wheels and the ratchet-wheel and its detent. Fig. 3 is also an end view similarly sectioned.

A is a wagon or carrier, in the standards B B' of which turns the horizontal shaft C, on which are fixed, at suitable distances apart, the circular plates D D'. E is a toothed wheel on the shaft C, at the front of the wagon, which gears with a similar toothed wheel, E', on the shaft of the actuating handle F. G is a ratchet-wheel, which is secured to the upper toothed wheel E, or to its shaft C; its detent H is pivoted to the standard B. I I' are scoop-carrying hooks, which are suspended freely from the inner faces of the plates D D', in such manner as always to preserve a vertical position, irrespective of the movements of the said plates. J are coal-scoops, which are carried by the suspension-hooks I I'.

Each scoop, respectively, when charged at the coal-house, is passed endwise through openings *a* in the plate D' onto the carrying-hooks I I', at that side of the frame for bearing the leverage pressure on the ratchet-wheel and

detent G H. The geared wheels E E' and the actuating handle F turn the frame until the scoops are successively placed in position, after which the wagon is drawn to the retort-house, and the scoops discharged endwise into the retorts.

The number of openings in the plate D', and the number of stops in the ratchet-wheel G, should correspond with the number of scoops the frame is capable of carrying. In this instance, the revolving scoop-carrier consists of the shaft C and the circular plates D D', carried by a wagon.

I do not confine myself to the device shown and described, but I claim as my invention a revolving scoop-carrier in connection with transporting mechanism, either or both, of any suitable construction; neither do I confine myself to the hooks I I', as shown, for supporting the scoops J, but claim any suitable devices attached to a revolving scoop-carrier, by which the tops of the scoops shall always retain their planes horizontally and parallel to each other, whereby they will be prevented from tilting and dropping their contents.

I claim as my invention—

1. A revolving scoop-carrier, in connection with a wagon, A, or other transporting device.
2. A revolving scoop-carrier, in connection with the suspension-hooks I I', or other suitable scoop-carrying devices.
3. A revolving scoop-carrier, in connection with the tooth-wheel E E' and the actuating handle F, for the purpose shown and described.
4. A revolving scoop-carrier, in connection with the ratchet-wheel G and the detent H.

In testimony whereof I hereunto sign my name in presence of two subscribing witnesses.

PETER MUNZINGER.

Witnesses:

FRANCIS D. PASTORIUS,
JOHN YILLE.