

(No Model.)

A. COZE.

APPARATUS FOR CHARGING GAS RETORTS.

No. 508,090.

Patented Nov. 7, 1893.

Fig. 1.

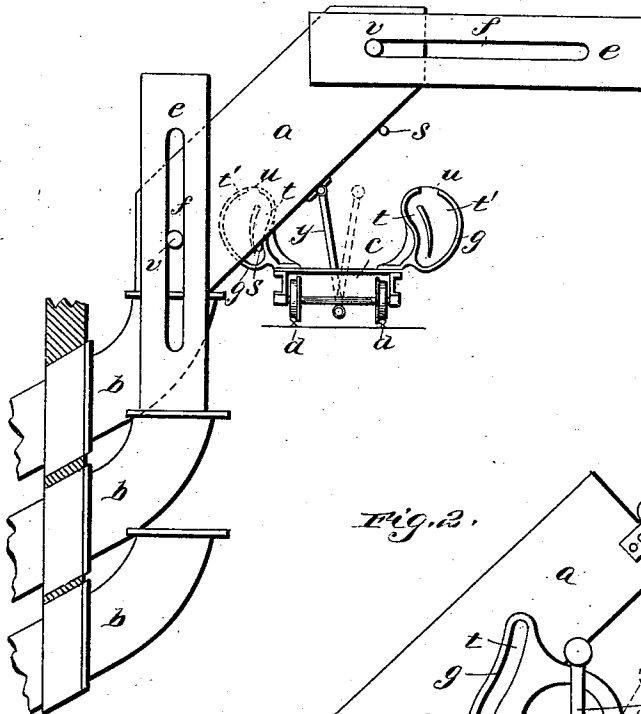


Fig. 2.

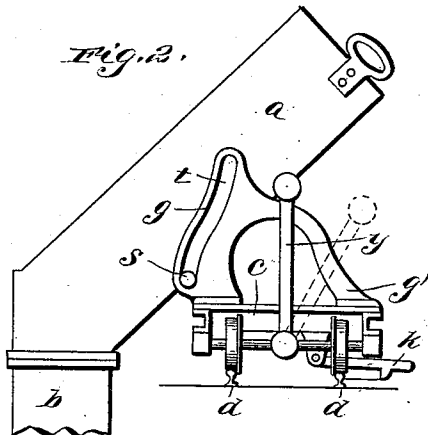
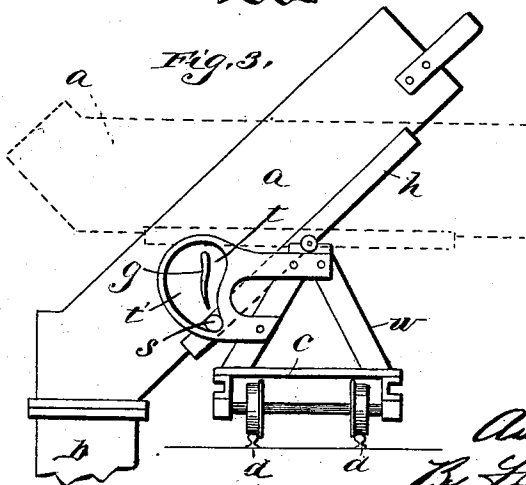


Fig. 3.



Witnesses:
Walter D. Cole.
M. M. Brown

Inventor:
Andrie Coyle
By Charles E. Fisher
Attorneys

UNITED STATES PATENT OFFICE.

ANDRÉ COZE, OF PARIS, FRANCE, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO SOCRATES NEWMAN AND JAMES GREEN, OF ST. LOUIS, MISSOURI.

APPARATUS FOR CHARGING GAS-RETORTS.

SPECIFICATION forming part of Letters Patent No. 508,090, dated November 7, 1893.

Application filed November 28, 1890. Serial No. 372,775. (No model.) Patented in France February 14, 1885, No. 167,044; in Germany March 27, 1885, No. 33,959; in Belgium June 17, 1885, No. 69,316; in England June 20, 1885, No. 7,563; in Italy June 30, 1885, XXXVI, 438; in Austria-Hungary October 30, 1885, No. 23,286 and No. 57,022, and in Spain December 22, 1885, No. 7,837.

To all whom it may concern:

Be it known that I, ANDRÉ COZE, a citizen of the Republic of France, formerly residing at Rheims, France, but now a resident of Paris, in said country, have invented certain new and useful Apparatus for Charging Gas-Retorts, (for which I have obtained Letters Patent in France, No. 167,044, dated February 14, 1885; in Germany, No. 33,959, dated March 27, 1885; in Austria-Hungary, No. 23,286 and No. 57,022, dated October 30, 1885; in Spain, No. 7,837, folio 190^a, dated December 22, 1885; in Italy, No. 438, folio 36, dated June 30, 1885; in Belgium, No. 69,316, dated June 17, 1885; and in England, No. 7,563, dated June 20, 1885,) of which the following is such a full, clear and exact description as will enable any one skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to trucks for charging gas retorts and has for its object to save labor and dispense with charging by hand.

The invention consists in features of construction and arrangement hereinafter specified, and pointed out in the claims.

The invention will be best understood by referring to the accompanying drawings, in which—

Figure 1 is an elevation of a truck carrying a tilting hopper having an adjustable chute at each end for charging the retorts. Fig. 2 is a similar view of a modification. Fig. 3 is a similar view of a still further modification.

The same marks of reference indicate the same parts throughout the different views.

Fig. 1 shows a double-acting (that is, adapted to discharge at each end) tilting hopper *a* provided with adjustable or extensible sliding chutes *ee* at each end for charging retorts placed at different levels, as shown in said figure. This hopper is provided with pins *v* on each end, and the chutes with longitudinal guide-slots *f* which maintain the extensible chutes *e* carried by the hopper in line with

the charging-mouth or neck *b* of the retorts when charging. The wheeled truck *c* carrying the hopper has an upright frame *g g* at each side, for suitably guiding the hopper when tilted on one side or the other, by means of pins *s* on the hopper, working in grooves *t* in the guide-frame, a lever *y* being pivoted beneath the bottom of the truck, and articulated to the hopper. The one or the other of said pins *s* engages the groove *t* in one or the other of the guide-frames *g*, according to whether the hopper is tilted to one side or the other. The guide-frames *g* are cut away at *u* to allow the other pin *s* to escape the other guide-frame *g* and permit the hopper to be tilted. *t'* are grooves in the guide-frames *g* through which the pins *s* travel when the hopper is returned to its horizontal position. The grooves *t'* are curved concentrically to the axis of oscillation of the hopper.

Fig. 2 shows a single-acting tilting hopper *a* pivoted beneath its center by lever *y* carried by a wheeled truck *c*, and with a vertical guide-groove *t*, the said groove *t* being in frame *g'* upon the wheeled truck *c*, in which groove *t* works a pin *s* on the hopper *a*, the said groove also limiting the upward and downward movements of the hopper. The wheeled truck *c* is held stationary in front of the charging-mouths *b* by a latch *k* pivoted to the truck *c*, dropping into a notch in one of the rails *d*.

Fig. 3 shows another single-acting tilting hopper with one vertical guide-frame *g*, but in which the hopper *a* is supported on a base *h* mounted to oscillate on a fixed pivot carried by frame *w* on the truck *c*, which frame *w* also supports the guide-frame *g*. The hopper *a* is supported by the base *h* so that it may slide along it to enable the mouth of the hopper to be brought in line with the vertical axis of the charging-mouths *b* of the retorts. The guide-frame *g* is provided with grooves *t* and *t'* in which works a pin *s*, the groove *t* being brought into use in discharging the hopper *a*, and the groove *t'* in returning the hopper *a* to its horizontal position.

Having fully set forth my invention, what I desire to claim and secure by Letters Patent of the United States is—

1. An apparatus for charging gas retorts, 5 consisting of a truck carrying a tiltable hopper having an adjustable chute at one end, for the purpose described.

2. An apparatus for charging gas retorts, 10 consisting of a truck carrying a tiltable hopper having an adjustable chute at each end, for the purpose described.

3. An apparatus for charging gas retorts, 15 consisting of a truck carrying a tilting hopper, the body of the hopper being supported by and free to slide on a base, which is mounted to oscillate on a fixed pivot, so that the mouth of the hopper may be brought in line

with the vertical axes of the charging mouths of the retorts.

4. An apparatus for charging inclined gas 20 retorts, consisting of a wheeled-truck traveling upon a way, a tilting hopper carried by said truck, guide frames upon said truck having suitable grooves therein, and pins upon 25 said hopper engaging said grooves for suitably guiding the hopper, whereby the discharge nose of the hopper will be maintained in alignment with the charging mouths of the retorts.

ANDRÉ COZE.

Witnesses:

ROBT. M. HOOPER,
ALBERT MOREAU.