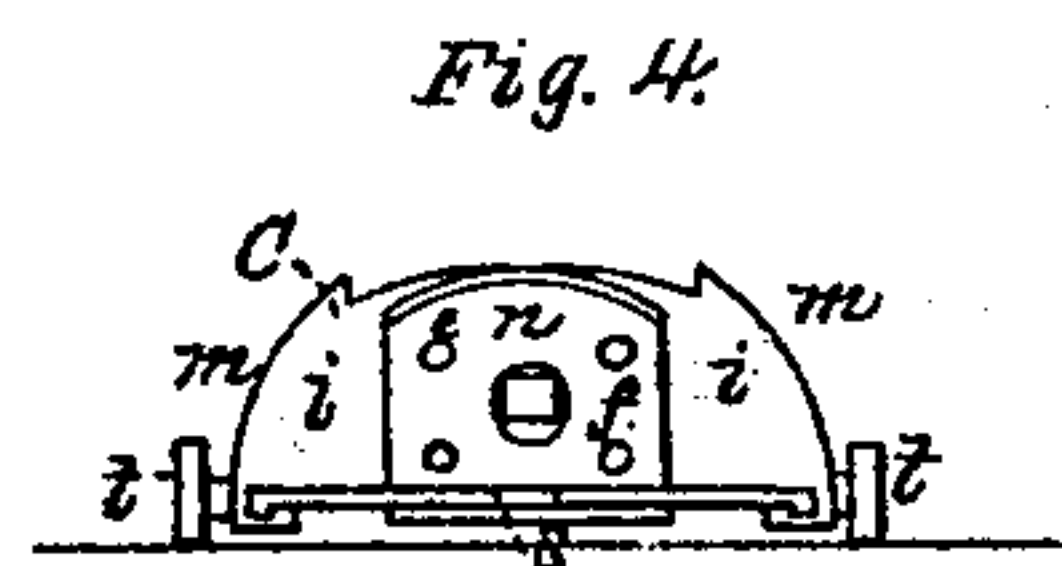
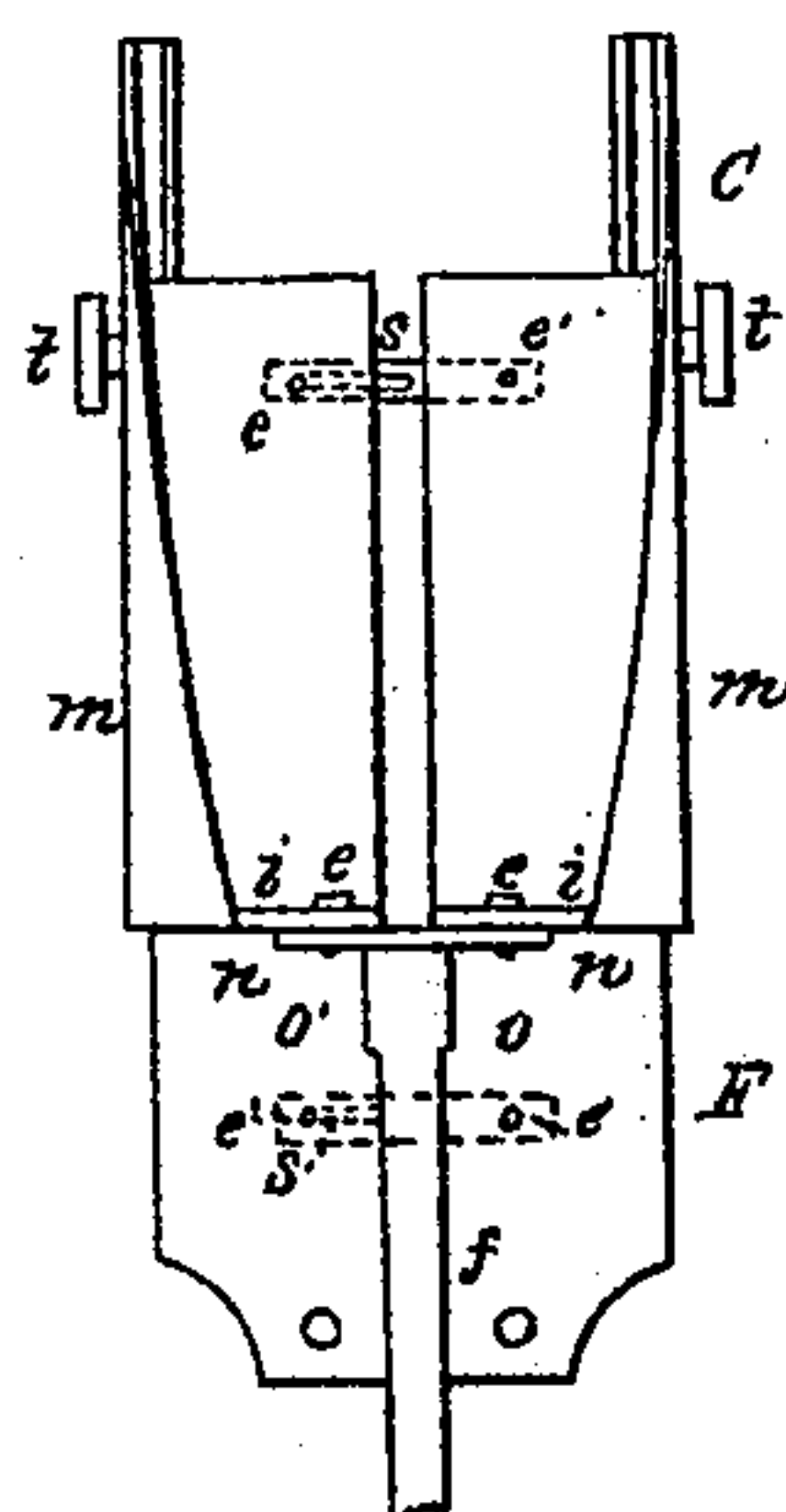
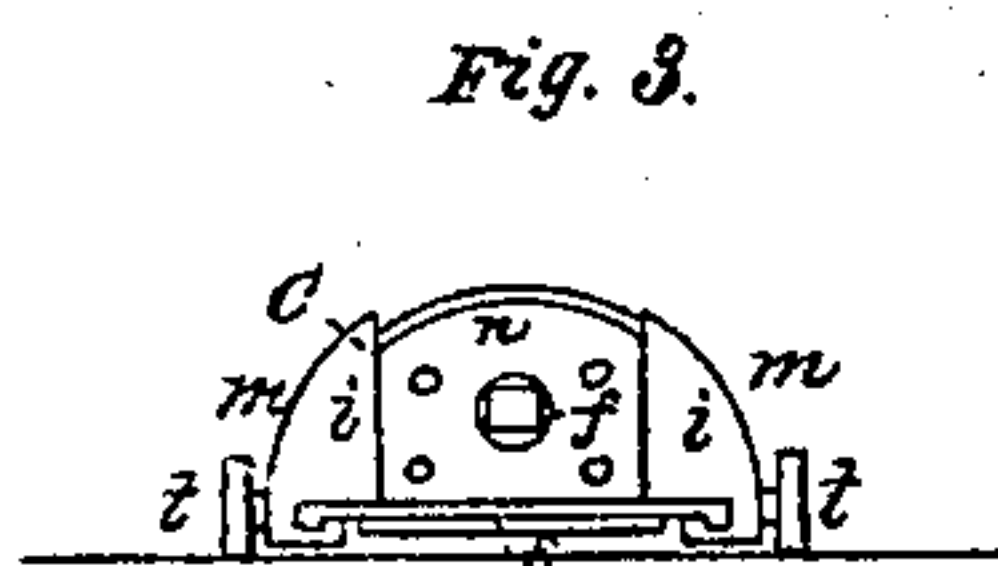
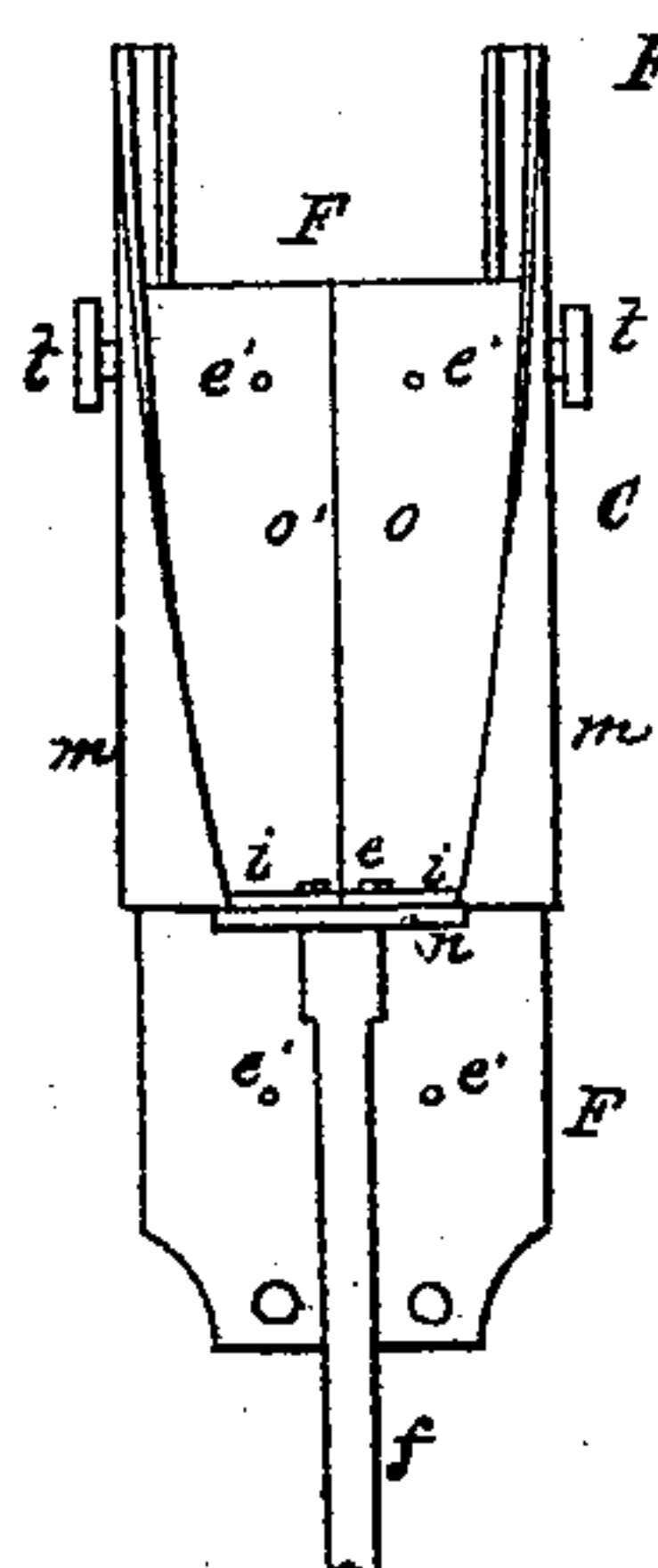
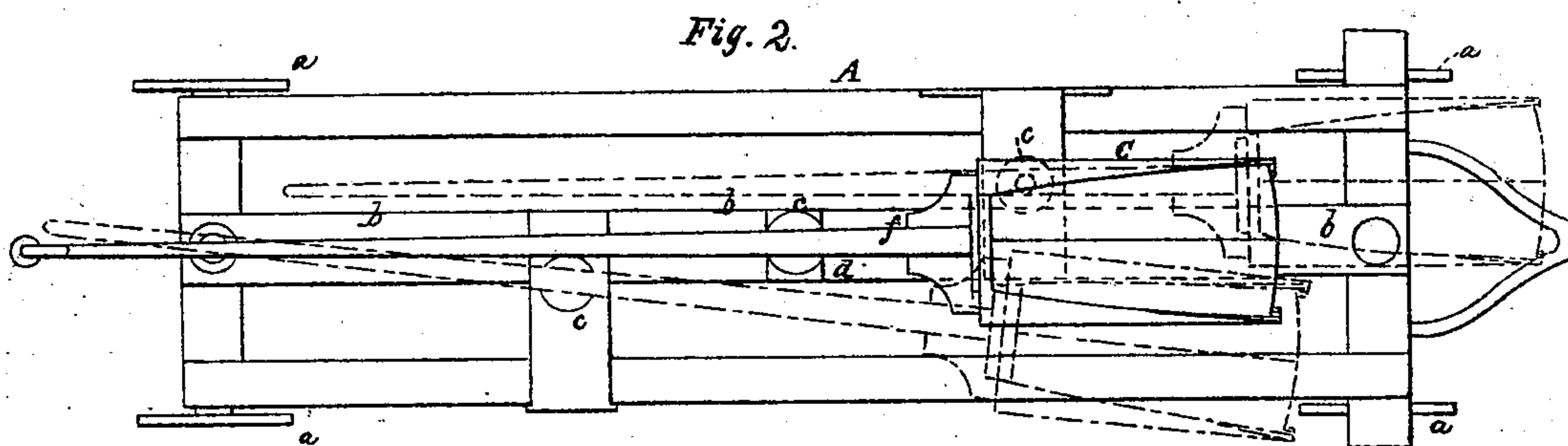
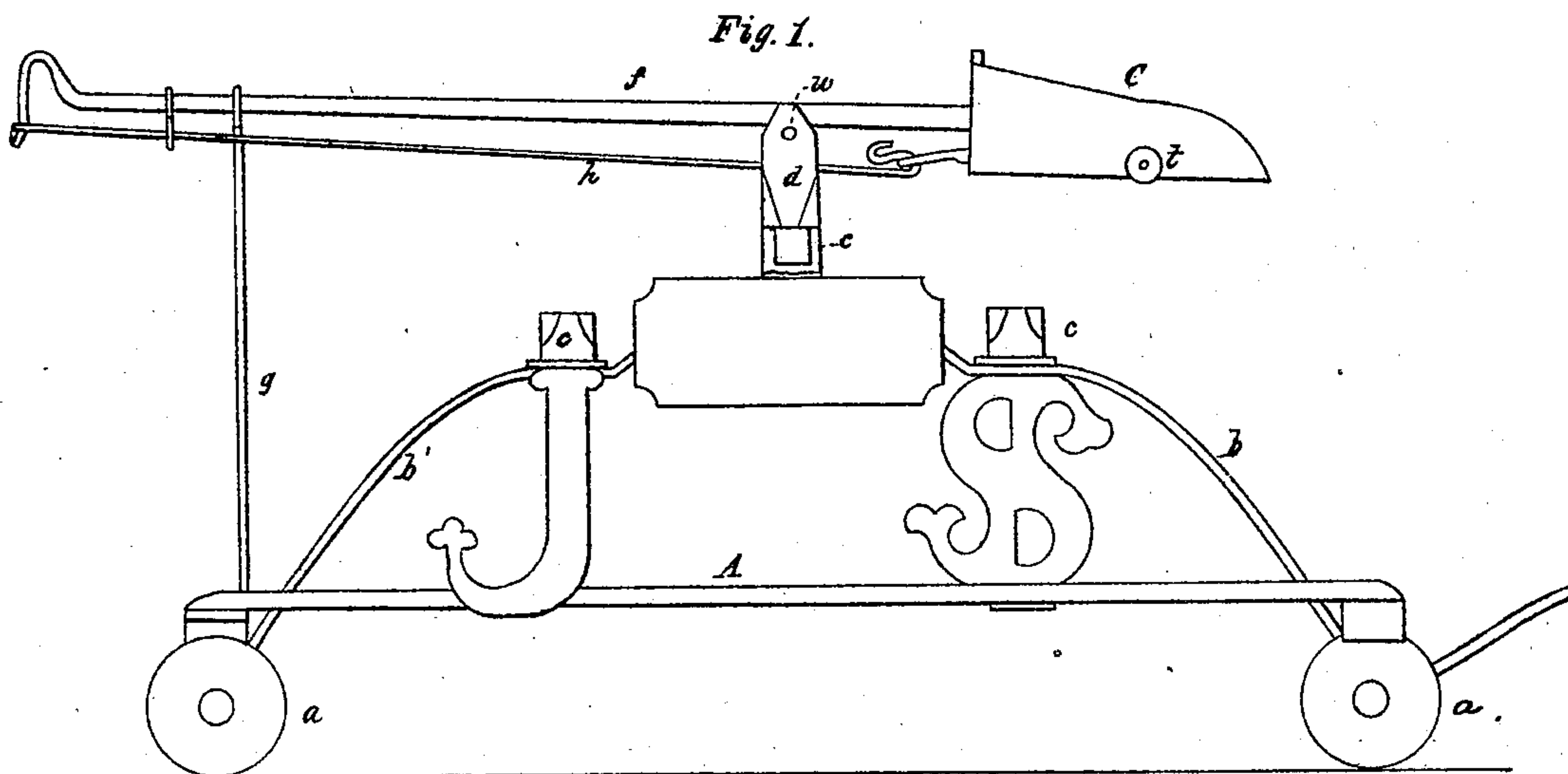


J. F. SNEDIKER & W. F. BAILEY.
APPARATUS FOR CHARGING GAS RETORTS.

No. 75,308.

Patented Mar. 10, 1868.



Witnesses.
Albert Smith
John Parker

J. F. Snediker
W. F. Bailey
By their attorney
H. Houson

United States Patent Office.

JAMES F. SNEDIKER AND WILLIAM F. BAILEY, OF BRISTOL, PENNSYLVANIA.

Letters Patent No. 75,808, dated March 10, 1868.

IMPROVED APPARATUS FOR CHARGING GAS-RETORTS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known, that we, JAMES F. SNEDIKER and WILLIAM F. BAILEY, of Bristol, Bucks county, Pennsylvania, have invented an Improved Gas-Retort Charger; and we do hereby declare the following to be a full, clear, and exact description of the same.

Our invention consists of a truck, carrying a series of scoops or chargers, which are constructed and arranged upon the truck, as fully described hereafter, so as to facilitate the removal of coal from the bins or heaps, its transportation to the gas-retorts, and its introduction into the latter.

In order to enable others skilled in the art to make and use our invention, we will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a sectional elevation of our improved gas-retort charger.

Figure 2, a plan view.

Figures 3 and 4, end views of one of the scoops; and

Figures 5 and 6, plan views of figs. 3 and 4

A is the frame of a truck, which rests on wheels *a a*; and on a bracket, *b'*, secured to and forming part of frame, are sockets *c c' c'*, the socket *c* being on a line with the centre of the truck, and the sockets *c' c'* being on opposite sides of the said line, as shown in fig. 2. In each socket fits a pin at the lower end of a swivel-bearing, *d*, (only one of which is shown in the drawing,) and in this bearing turns a friction-roller, *w*, on which rests the handle *f* of a scoop or charger, C, the outer end of the handle projecting beneath a hooked rod, *g*, at the rear of the truck. The back of each scoop consists of three plates *n i i*, the former being secured to the handle *f*, and through slots in the plates *i*, pass screw-bolts *e*, by which the said plates are secured to the plate *n*, so as to be adjustable laterally thereon. To each plate *i* is secured one of the sides *m* of the scoop, and at the lower edge of each side is a groove for the reception of a rib on the edge of one of two plates *o o'*, which constitute the bottom, F, of the scoop. Arms *s s*, attached to the plate *o*, project beneath the plate *o'*, and are secured to the latter by bolts *e'* passing through slots in the arms and into the plate. To the inner end of the bottom, F, is secured a rod, *h*, which extends beneath the handle *f*, through an opening in the bearing *d*, and is supported at the outer end in a link hanging from the end of the handle. At each side of the scoop is a roller, *t*, for a purpose described hereafter.

The scoops, after being filled with coal, are brought to the position shown in fig. 2, and the truck is placed in front of the retorts to be charged, at right angles to the same. A retort is now opened, the scoop opposite the same is turned at right angles to the truck, and is introduced into the retort, the rollers *t* bearing on the bottom of the retort, and the handle *f* resting on the roller *w*. When the scoop is in the proper position, the contents are discharged by drawing back the rod *h* and bottom F; the scoop is then withdrawn and is secured in its first position on the truck. After all the scoops have been emptied of their contents, the truck is moved back to the bin, where the scoops are again filled by turning them at right angles to the truck, and introducing them into the openings in the side of the bin.

Owing to the arrangement of the sockets *c c' c'*, the scoops may be brought nearly parallel to each other, so that the apparatus when loaded occupies but little room, and is well balanced.

By loosening the bolts *e e'*, both the sides and the bottom plates of the scoop may be adjusted so as to increase or diminish the width of the scoop, to adapt it to retorts of different sizes.

Inasmuch as one scoop may be operated without disturbing the others, the retorts may be charged singly, or a number may be filled simultaneously.

We do not claim broadly a truck carrying a series of scoops or chargers; but

We claim as our invention, and desire to secure by Letter Patent—

1. The truck A and its swivel-bearings *d*, in combination with a series of scoops, C, the handles of which rest on and slide in the said bearings, substantially as and for the purpose described.
2. A sliding bottom, F, in combination with a scoop, C, substantially as and for the purpose specified.
3. A scoop, consisting of adjustable side-pieces *m m*, and bottom pieces *o o'*, constructed, arranged, and connected to the handle *f*, substantially as and for the purpose set forth.
4. The wheels *t*, in combination with a scoop, C, for the purpose described.

JAMES F. SNEDIKER,
WM. F. BAILEY.

Witnesses:

CHAS. E. SCOTT,
FRED. SCOTT.