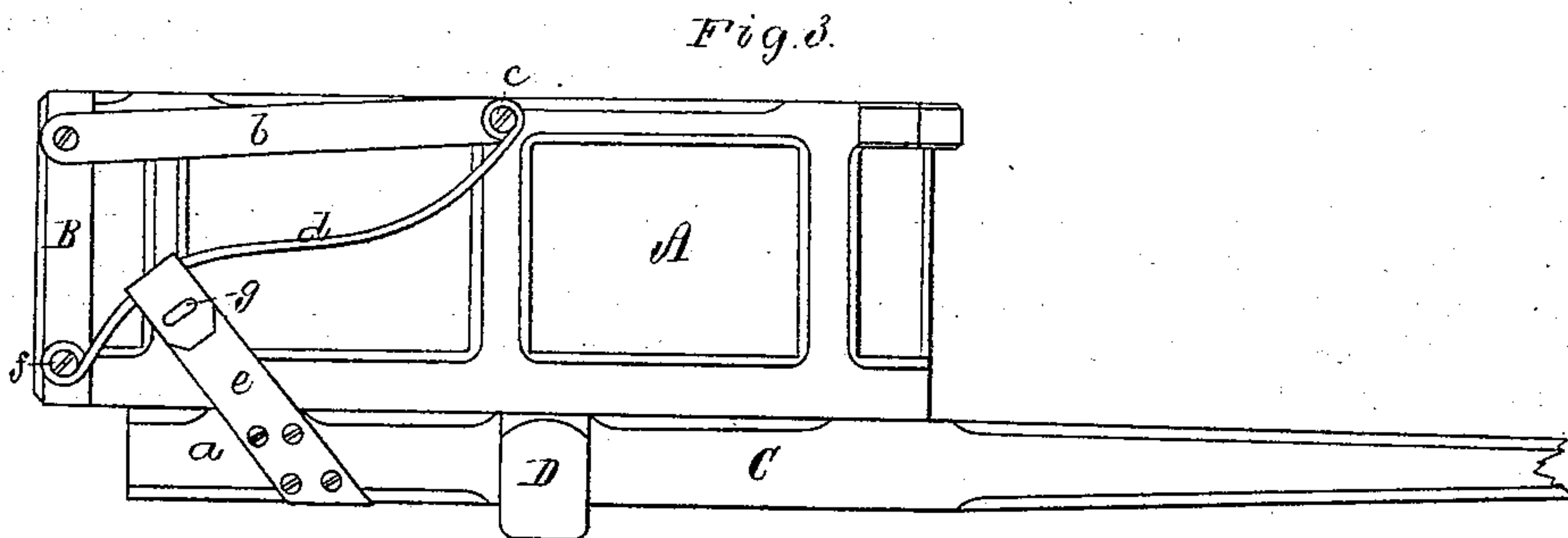
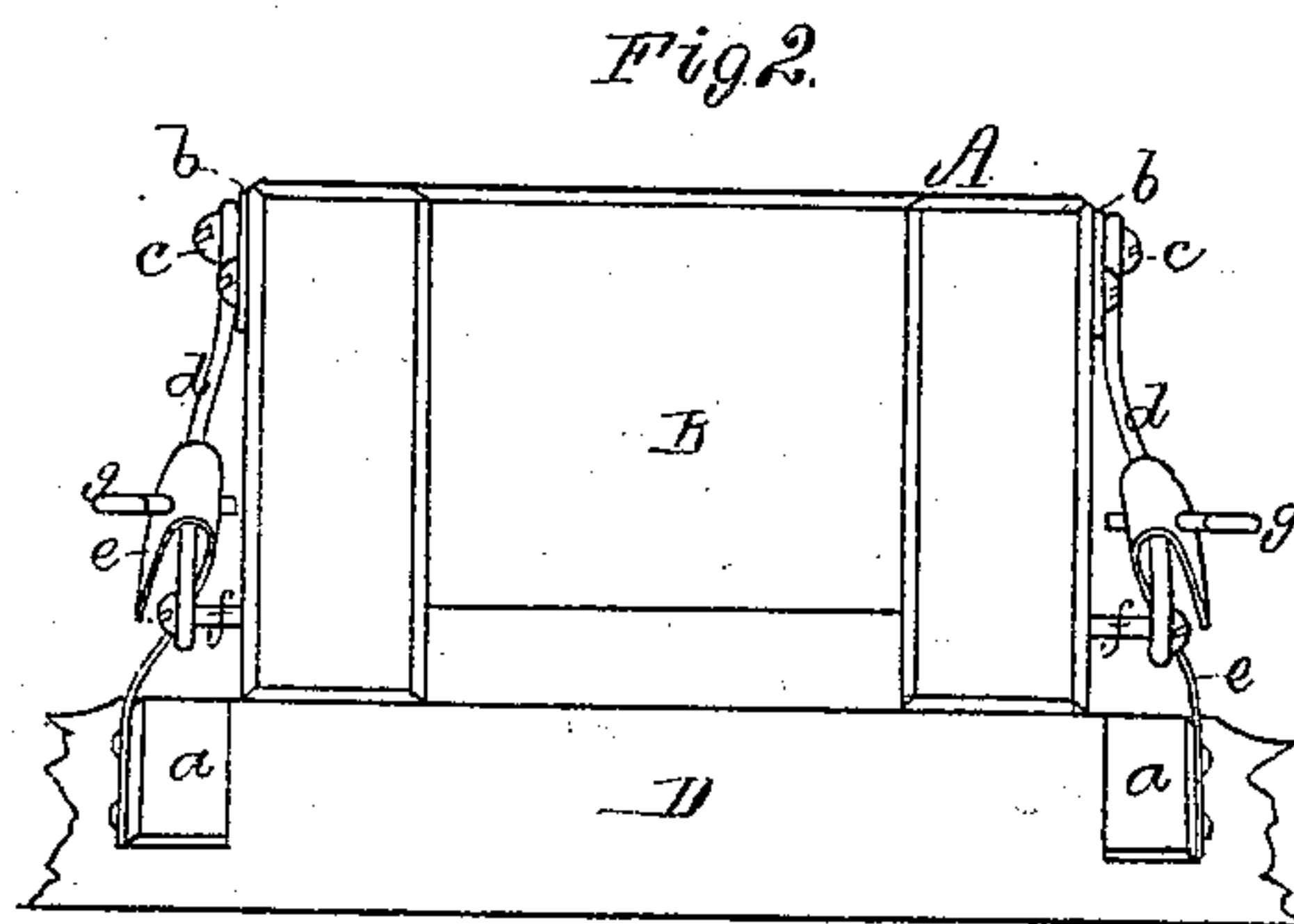
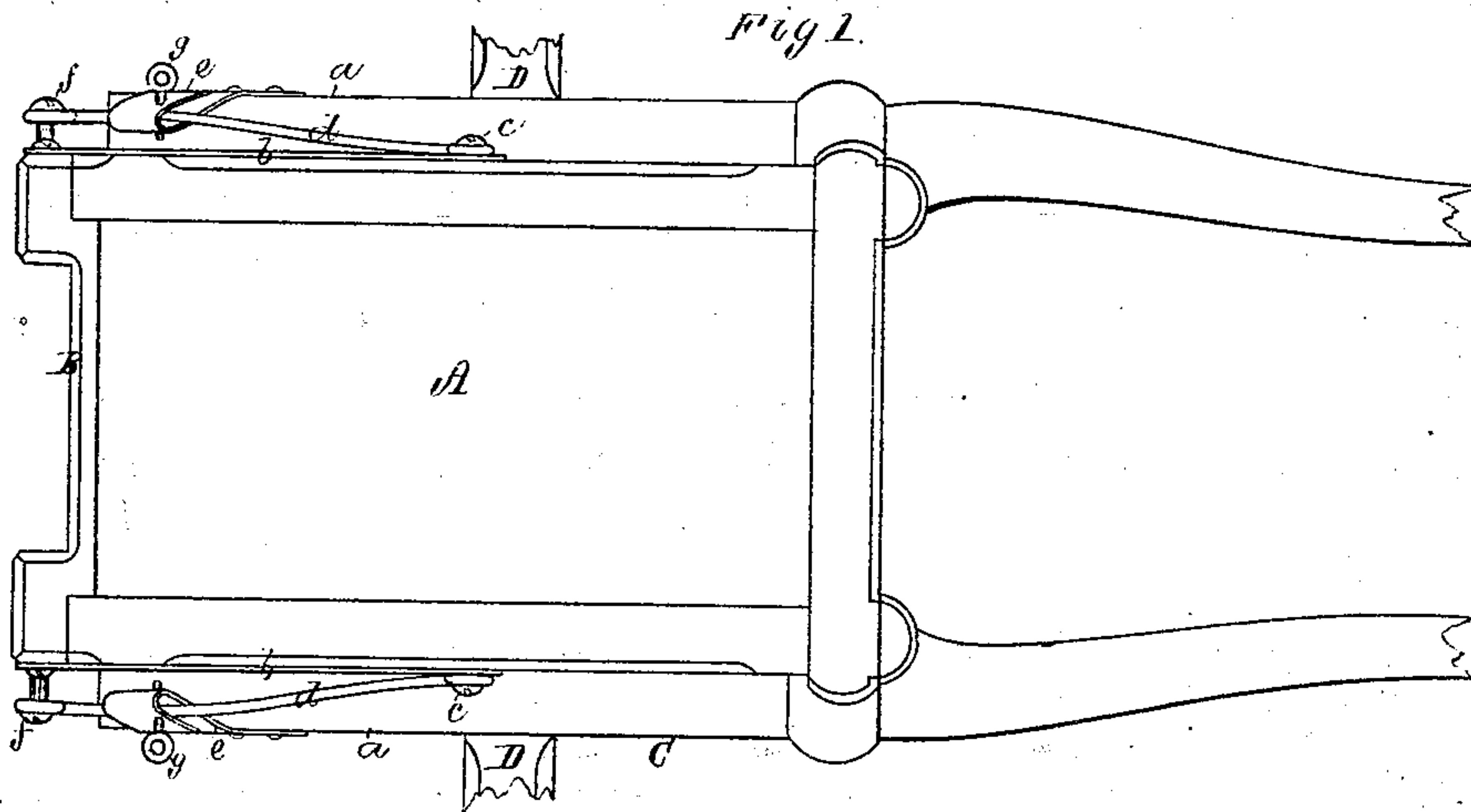


J. SWEENEY.

End-Gates in Dumping-Carts.

No. 152,433.

Patented June 23, 1874.



Witnesses

S. W. Piper.

L. N. Holker.

John Sweeney

by his attorney.

R. H. Day

UNITED STATES PATENT OFFICE.

JOHN SWEENEY, OF MANCHESTER, NEW HAMPSHIRE.

IMPROVEMENT IN END-GATES FOR DUMPING-CARTS.

Specification forming part of Letters Patent No. **152,433**, dated June 23, 1874; application filed May 13, 1874.

To all whom it may concern:

Be it known that I, JOHN SWEENEY, of Manchester, of the county of Hillsborough and State of New Hampshire, have invented a new and useful Improvement in Tip-Carts; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a rear-end view, and Fig. 3 a side elevation, of a "tip-cart" provided with my invention, the wheels not being represented.

The invention consists mainly in the combination, with the cart-body and its tail-board, of a mechanism by which, while the body may be in the act of being "dumped" or turned down on the axle, the rear end of the cart-body shall be opened to discharge the contents of the body, the closing of the said end taking place by and during the counter movement of the body.

In the drawings, A denotes the tip-cart body, made in the usual manner, and provided at its rear or open end with a tail-board or cover, B. The thill-frame C is shown as projecting in front of the axle D in the usual way, the body being hinged to the axle. From the thill-frame two arms, *a a*, project backward, as shown, the distance between them being a little greater than the width of the cart-body, in order that it may be turned between them. The tail-board B at its ends, and near its upper edge, is connected to the body by two long links or bars, *b b*, pivoted both to the body and the

tail-board. Furthermore, from the forward pivot *c* of each of said links one of two curved guides or rods, *d*, is extended through one of two inclined and hooked arms, *e e*, projecting upward from the arms *a a*, in manner as shown, each rod *d* being also pivoted to the tail-board at its end, and near its lower edge. The pivots are shown at *f f*. Each of the arms *e e* is hooked around its guide-rod *d*, which rests upon a pin, *g*, going through the hook.

On tipping the cart-body, the tail-board will be held up so as to uncover the rear end of the body, the connection-links *b b* being preserved in, or about in, parallelism with the arms *a a*. During the reverse motion of the body, it will be moved up to the tail-board and be closed thereby. Thus the tail-board will be automatically operated, while the body may be in the act of being turned either upward or downward, the whole saving the necessity of the usual manual manipulating of the tail-board to open the cart-body at its rear end, in order that the earth or contents of the body may be discharged from it, and to subsequently close it.

I claim—

In combination with the tail-board, the tip-cart body and its supporting-frame, the arms *a a e e*, the links *b b*, and the guide-rods *d d*, to operate as set forth.

JOHN SWEENEY.

Witnesses:

J. O'CONNER,
A. C. OSGOOD.