

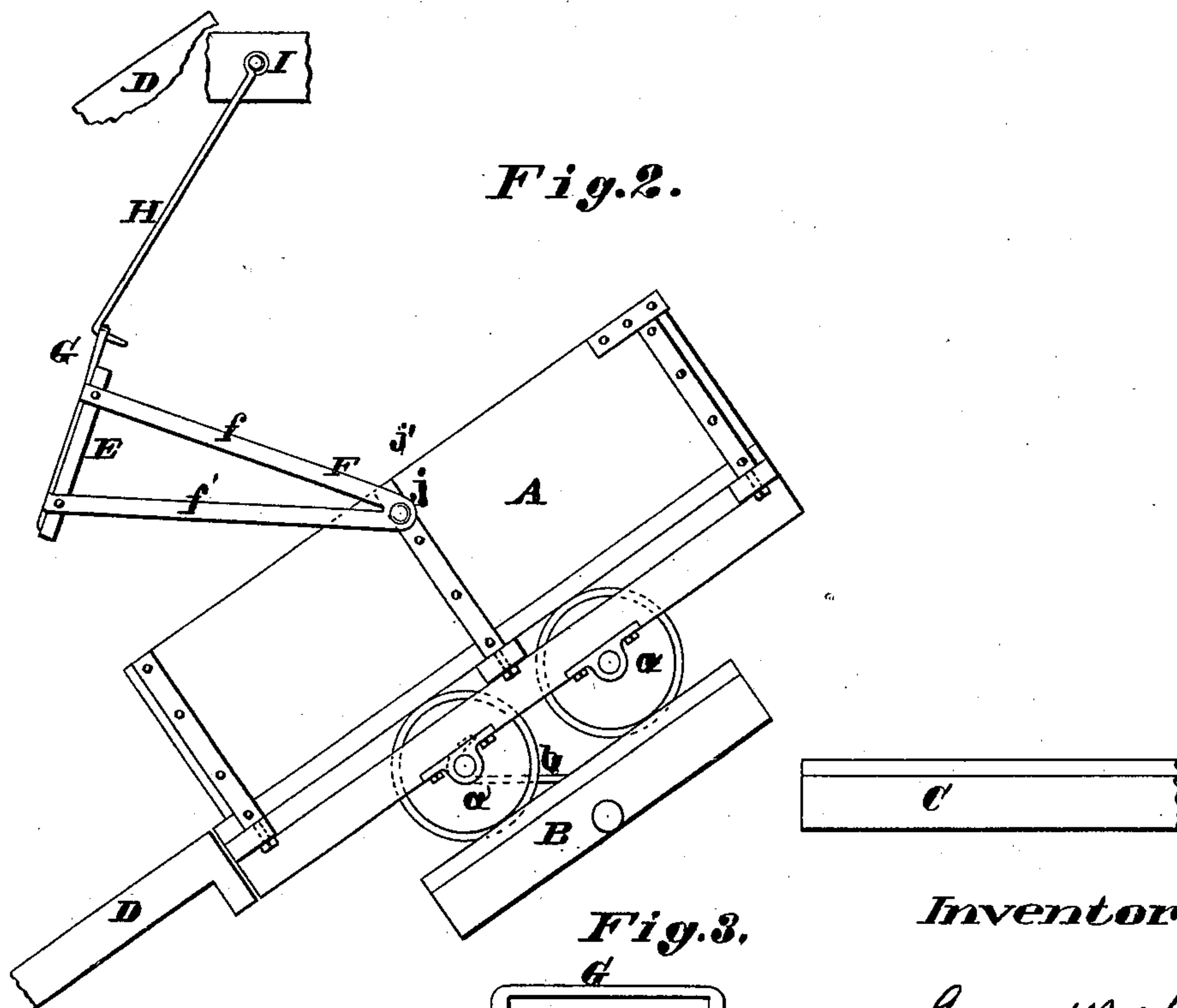
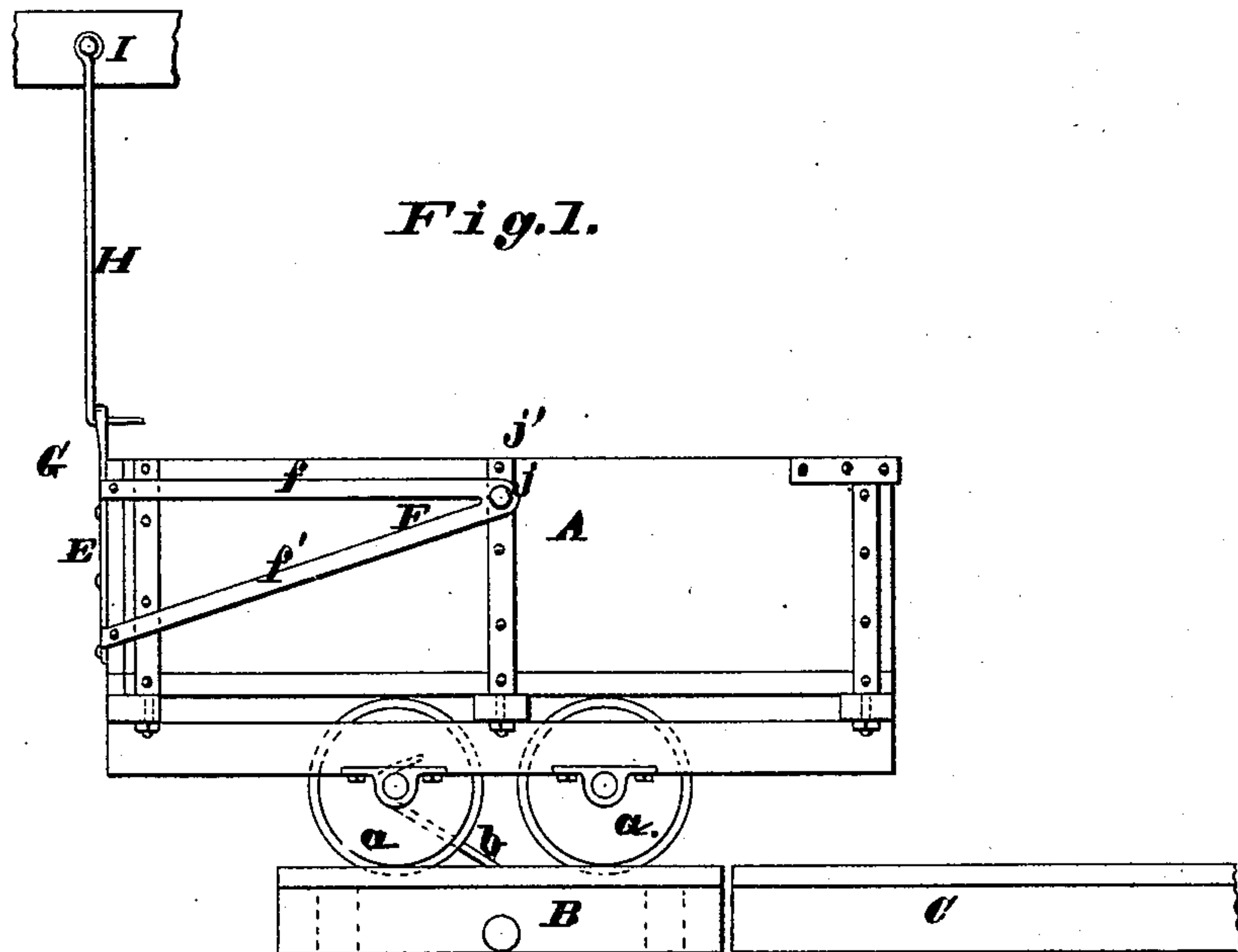
(No Model.)

G. W. MILLER.

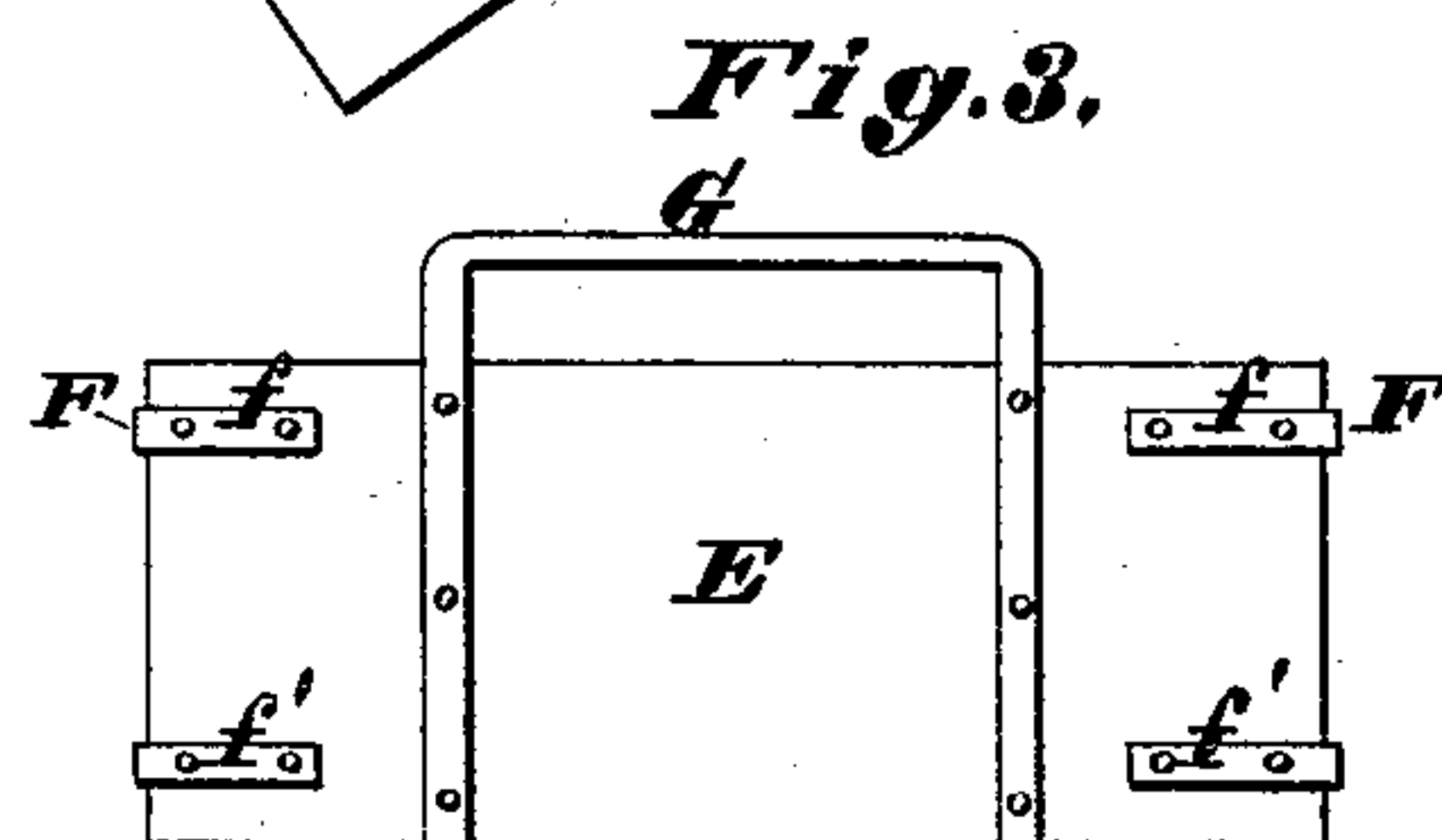
DUMPING CAR.

No. 251,061.

Patented Dec. 20, 1881.



*Attest.*  
Charles Pickles  
Geo A Brewer



*Inventor:*

*George W. Miller*

# UNITED STATES PATENT OFFICE.

GEORGE W. MILLER, OF TROY, ILLINOIS.

## DUMPING-CAR.

SPECIFICATION forming part of Letters Patent No. 251,061, dated December 20, 1881.

Application filed July 28, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. MILLER, a citizen of the United States, residing at Troy, in Madison county and State of Illinois, have  
5 invented a new and useful Improvement in End-Gate Hinges for Dump-Cars, of which the following is a specification.

My invention relates to improvements in hinges and the manner of attaching, construct-  
10 ing, and operating the same upon dump-cars for opening and closing their end-gates.

The objects of my improvements are, first, to open and close the end-gate with expedition and greater safety; secondly, to hold the end-  
15 gate suspended upon a hook and pivots entirely out of the way of injury from any material being dumped; thirdly, to greatly strengthen and keep in proper shape the side-boards and end-gate, which is desirable. I attain  
20 these objects by the mechanism illustrated in the accompanying drawings, which form a part of this specification.

Similar letters refer to similar parts throughout the several views.

25 Figure 1 is a side elevation with the gate down. Fig. 2 is a side elevation with a car tilted and gate up. Fig. 3 is an end elevation of the gate.

In Fig. 1, A represents an ordinary dump-  
30 car, used for mining purposes, standing upon a tippie-block, B, of a railway-track, C. The car is held in position on the tippie-block by the standard-arm *b*, so it cannot move forward on the wheels *a a* while the contents of the car  
35 are being dumped upon the screen D by opening or raising the end-gate E and the tipping of the car endwise.

The end-gate E, Fig. 3, is made of usual form, thickness, and material used for this pur-  
40 pose. To this gate I attach, as shown at *ff'* F, Figs. 1 and 3, one (or more) of my improved hinges, which is made of metal or any other

suitable material, and has an upper arm, *f*, and a lower arm, *f'*, which is longer than the arm *f*, and lies obliquely to it, so that these  
45 arms are spread apart sufficiently to fasten the lower arm, *f'*, near the bottom of the end-gate, and the top arm, *f*, is fastened at a point on the end-gate in line horizontally with the pivot-  
50 pins *j j'*, which are firmly attached to the sides of the car, and on which the hinge F is jointed. The arms *ff'* extend and are fastened to the end-gate, as shown in Fig. 3.

Rigidly secured upon the end-gate E is an eye or staple, G, Fig. 3, extending above its  
55 body, into which the suspended hook H, which is pivoted on I, catches, and by the tipping of the car endwise upon the tippie-block opens the end-gate and holds it open and suspended  
60 by it and the pivot-pins *j j'* until the contents of a car is discharged, after which the car drops into place upon its trucks and track with the end-gate closed automatically, and is held by the hinges ready for use.

By the use of these hinges and the manner  
65 of attaching them to the sides of a car and end-gate the several parts are held firmly in place, and the dangers and difficulties of opening and closing dump-car end-gates, as now in vogue, are avoided.  
70

Having thus fully described my invention and set forth its advantages and operation, I claim as new, and desire to secure Letters Patent therefor, as follows:

In the construction and arrangement of a  
75 dump-car, the eye G, suspended hook H, and pivot I, in combination with the end-gate E, hinges F, car A, tippie-block B, and other parts specified, as and for the purposes shown.

GEO. WM. MILLER.

Witnesses:

CHARLES PICKLES,  
GEO. A. BREMEN.