

(No Model.)

2 Sheets—Sheet 1.

E. BEALS.

ASH PAN FOR LOCOMOTIVES.

No. 328,751.

Patented Oct. 20, 1885.

FIG. I.

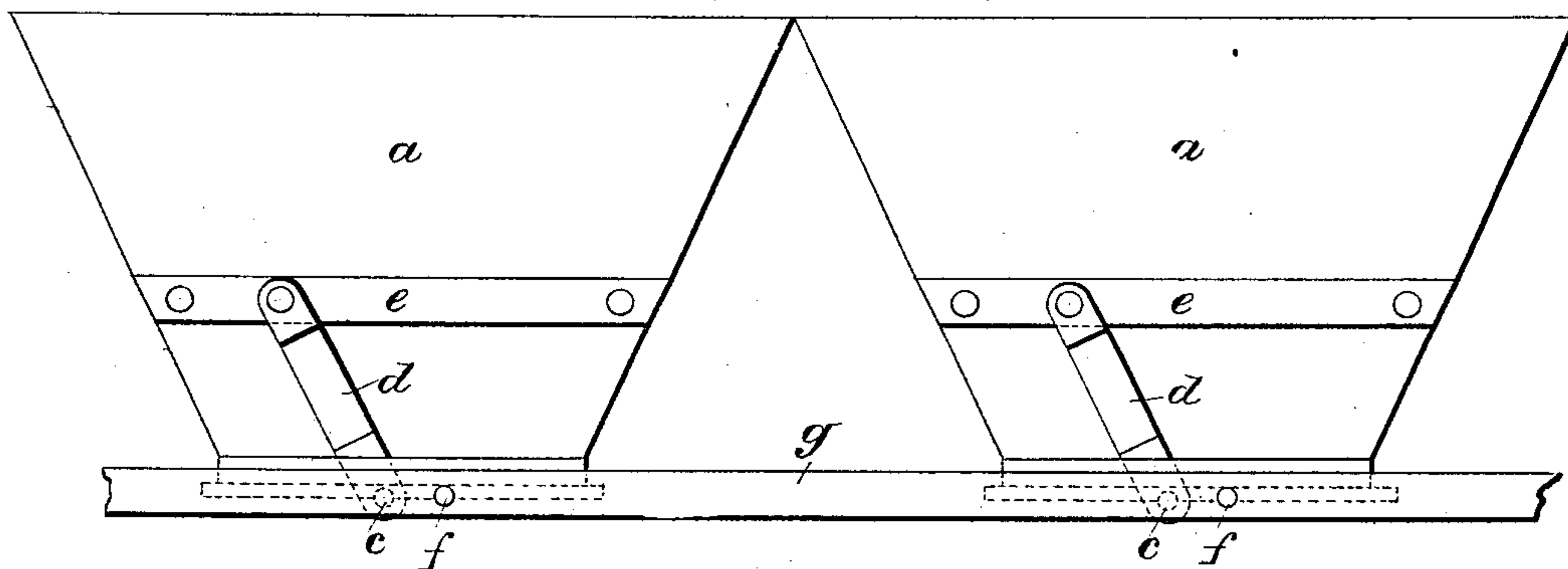


FIG. II.

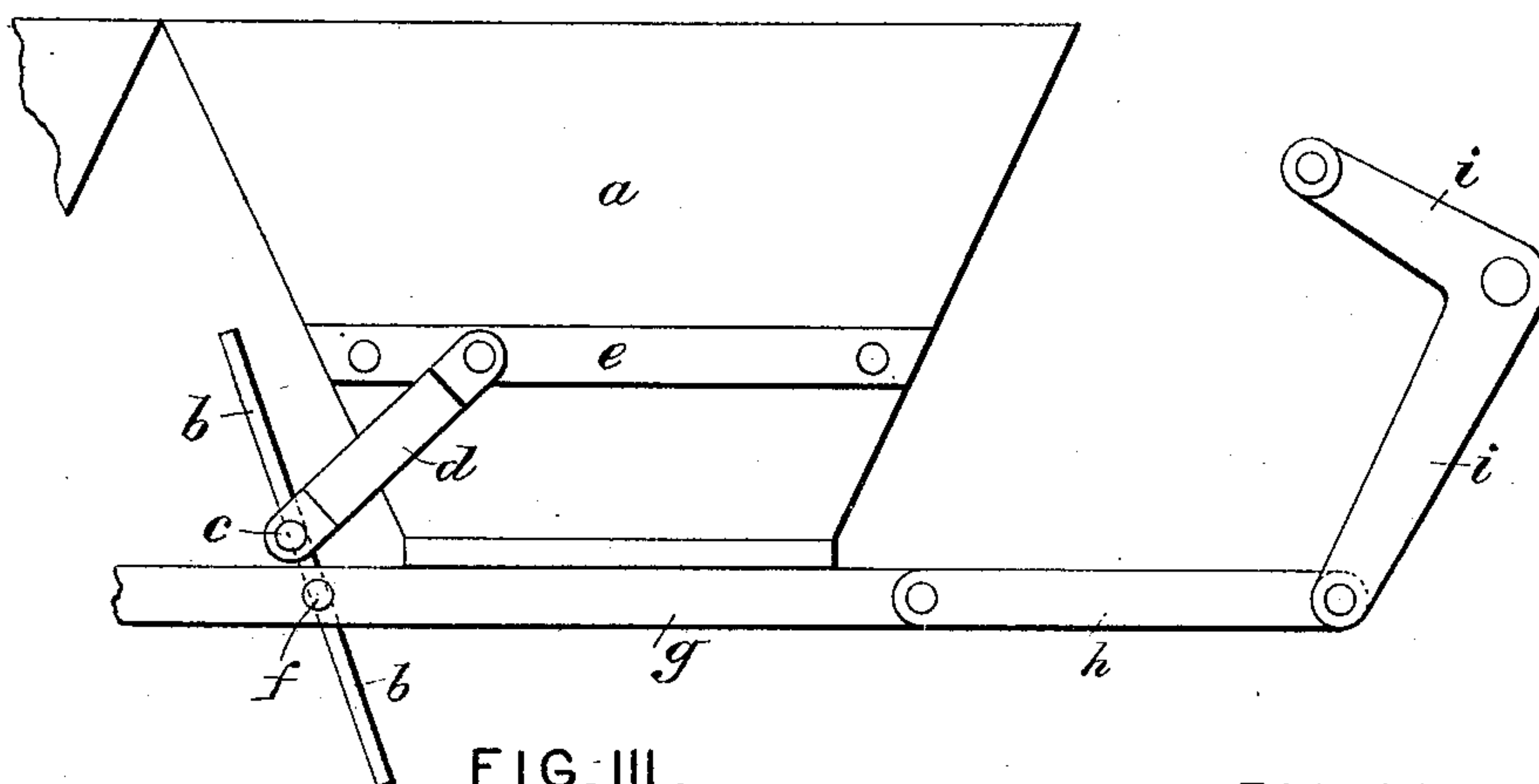


FIG. III.

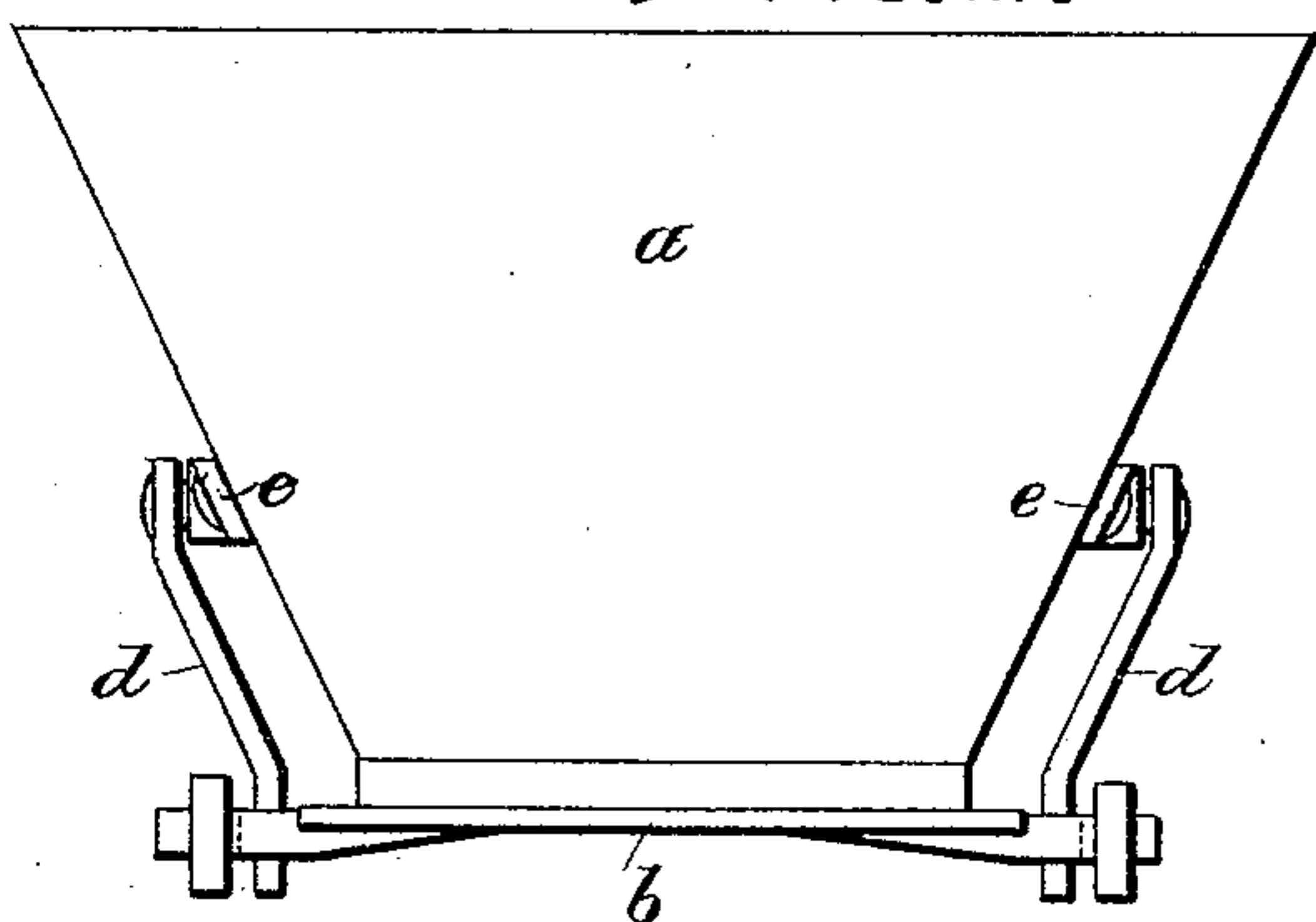
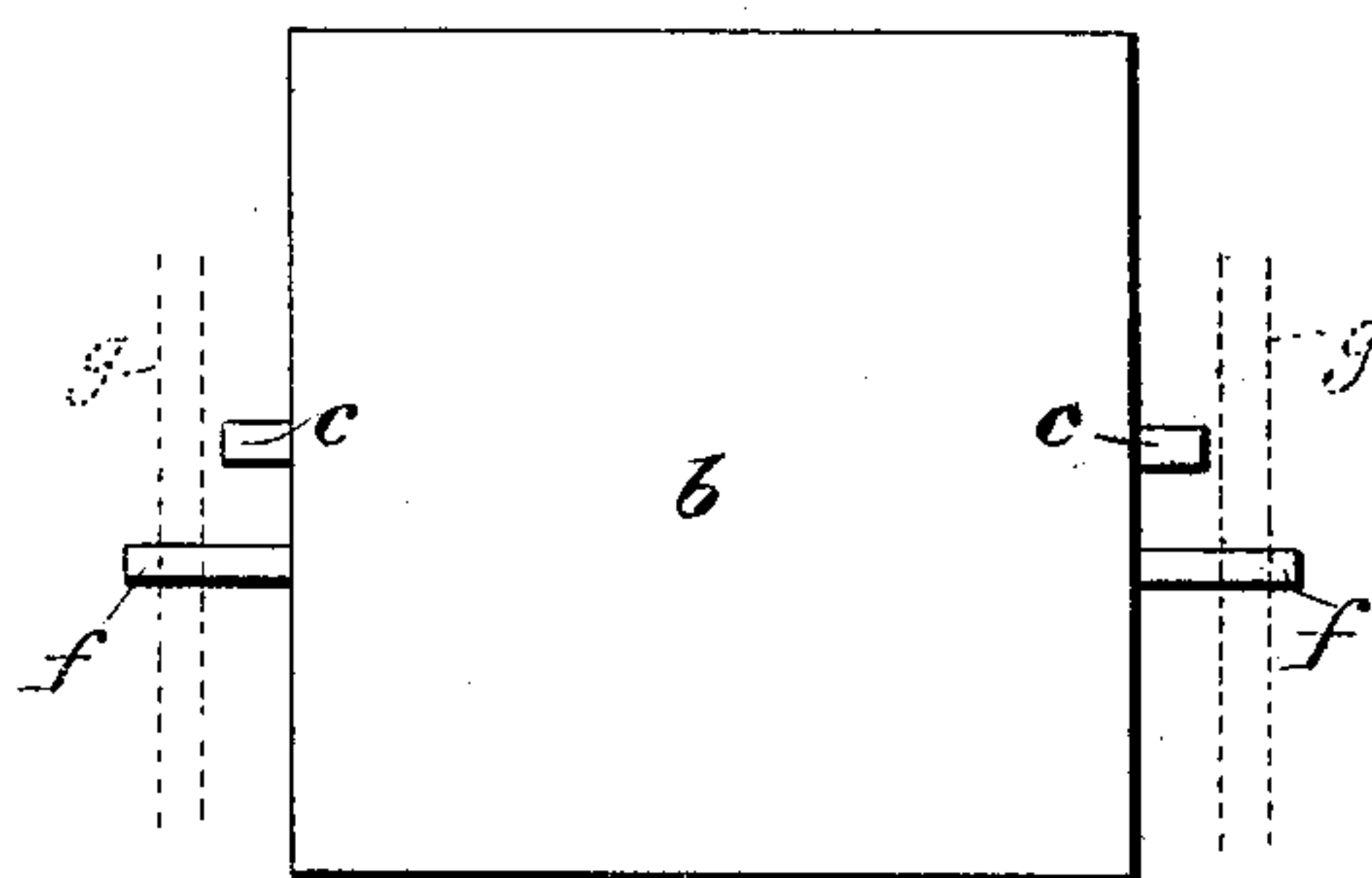


FIG. IV.



Attest:
Geo. P. Smallwood.
[Signature]

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Ebenezer Beals.
By *[Signature]* attys.

(No Model.)

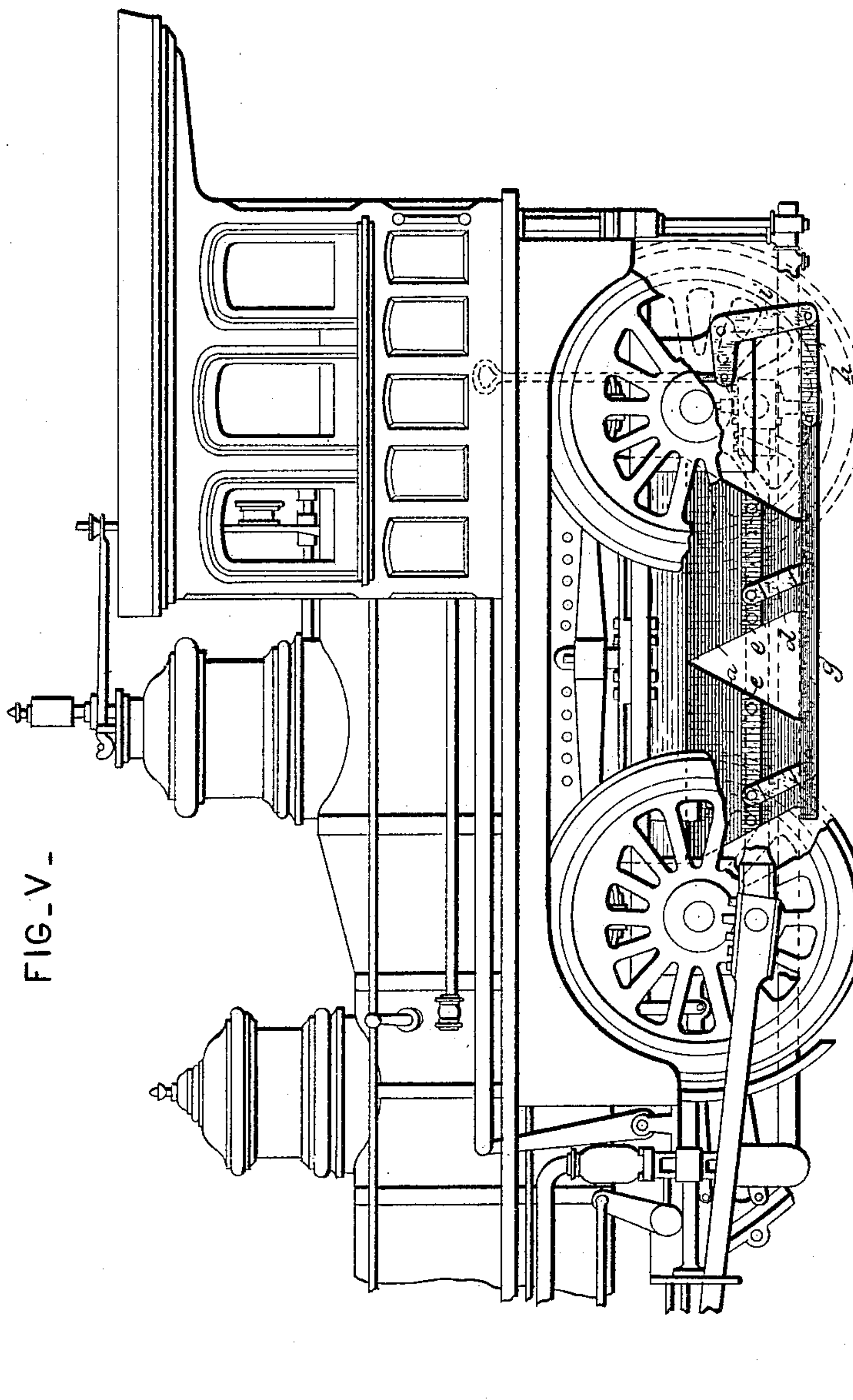
2 Sheets—Sheet 2.

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ASH PAN FOR LOCOMOTIVES.

No. 328,751.

Patented Oct. 20, 1885.



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UNITED STATES PATENT OFFICE.

EBENEZER BEALS, OF NORWICH, NEW YORK.

ASH-PAN FOR LOCOMOTIVES.

SPECIFICATION forming part of Letters Patent No. 328,751, dated October 20, 1885.

Application filed February 5, 1885. Serial No. 155,036. (No model.)

To all whom it may concern:

Be it known that I, EBENEZER BEALS, a citizen of the United States, residing at Norwich, in the county of Chenango and State of New York, have invented certain new and useful Improvements in Ash-Pans for Locomotives, of which the following is a specification.

In order that my invention may be fully understood, I will describe it with reference to the accompanying drawings, in which—

Figure I is a side elevation of the lower part of an ash-pit, showing the pan which forms its bottom in place thereunder. Fig. II is a similar view showing the pan swung away from the bottom for permitting the escape of the ashes. Fig. III is an end view showing the pan in place. Fig. IV is a plan of the pan itself. Fig. V is an elevation of so much of the rear portion of a locomotive as is necessary to show the application of the improved ash-pan thereto.

The ash-pit may terminate at bottom in one or more hopper-shaped spouts or boxes *a*, as shown in Fig. 1.

b represents the ash-pan, which is provided with oppositely-projecting trunnions *c*, which have bearings in eyes formed in the lower extremities of links *d*, whose upper ends are in turn pivotally connected to the sides of the pit *a*, or to bars or braces *e*, secured thereto. The pan *a* is also formed or provided with gudgeons *f*, which work within bearings in longitudinally-reciprocating bars or rods *g*, which may be operated by any desired mechanism—such, for example, as the link *h* and bell-crank lever *i*, as represented in Fig. II. This part of the invention is obviously susceptible of many mere colorable modifications, and I do not therefore desire to limit myself to any particular form of devices. It will be seen that the trunnions *c* are located to one side of the center of the pan, and also that the point from which the links *d* are suspended are much to one side of the center of the hopper or pit *a*. This is to permit the trunnions *c* to swing down away from the bottom of the pit and clear of its corner to the position shown in Fig. II.

The gudgeons *f* are sufficiently long to permit the bar *h* to work past the end of the trunnions *c*, as shown by dotted lines in Fig. IV. The gudgeons are located nearer the cen-

ter of the ash-pan than are the trunnions *c*; and in fact they may, if it is desired, be located on the other side of said center, which would have the effect of reducing the amount of longitudinal strain upon the bar *h* which it is necessary to exert in order to hold the ash-pan in place.

The operation of the device is obvious and needs no further explanation.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

1. An ash-pit having its pan or bottom suspended by links from a point to one side of its center, in combination with mechanism for holding said pan to its closed position beneath the pit, as set forth.

2. The hopper or pit *a*, in combination with the pan or bottom *b*, having trunnions *c*, the links *d*, suspended from a point to one side of the center of said pit *a*, and the longitudinally-reciprocating bar *h*, pivotally connected to said pan, as and for the purpose set forth.

3. An ash-pit terminating in two or more spouts or boxes, *a*, in combination with the pans *b*, having the trunnions *c*, the links *d*, connected to said trunnions and suspended from a point to one side of the center of said spout *a*, and the longitudinally-reciprocating bars *h*, pivotally connected to all the pans, as and for the purpose set forth.

4. In combination, the pit *a*, the pans *b*, having trunnions *c*, the links *d*, for suspending said pan from a point to one side of the center of said pit, the elongated gudgeons *f*, and the rods or bars *g*, embracing said gudgeons, as and for the purposes set forth.

5. In combination with the pit *a*, the pan *b*, having trunnions *c*, located to one side of its center, the links *d*, suspending said pan from a point to one side of the center of the pit, and an operating-bar, substantially as described, for holding said pan in place beneath the bottom of the pit when desired.

6. The combination, with an ash-pit, of a pan or bottom plate, links by which said pan is suspended beneath said pit, and a rod for holding said bottom plate in place, substantially as set forth.

EBENEZER BEALS.

Witnesses:

W. C. DEDRICK,
SAM S. HALE.