

(No Model.)

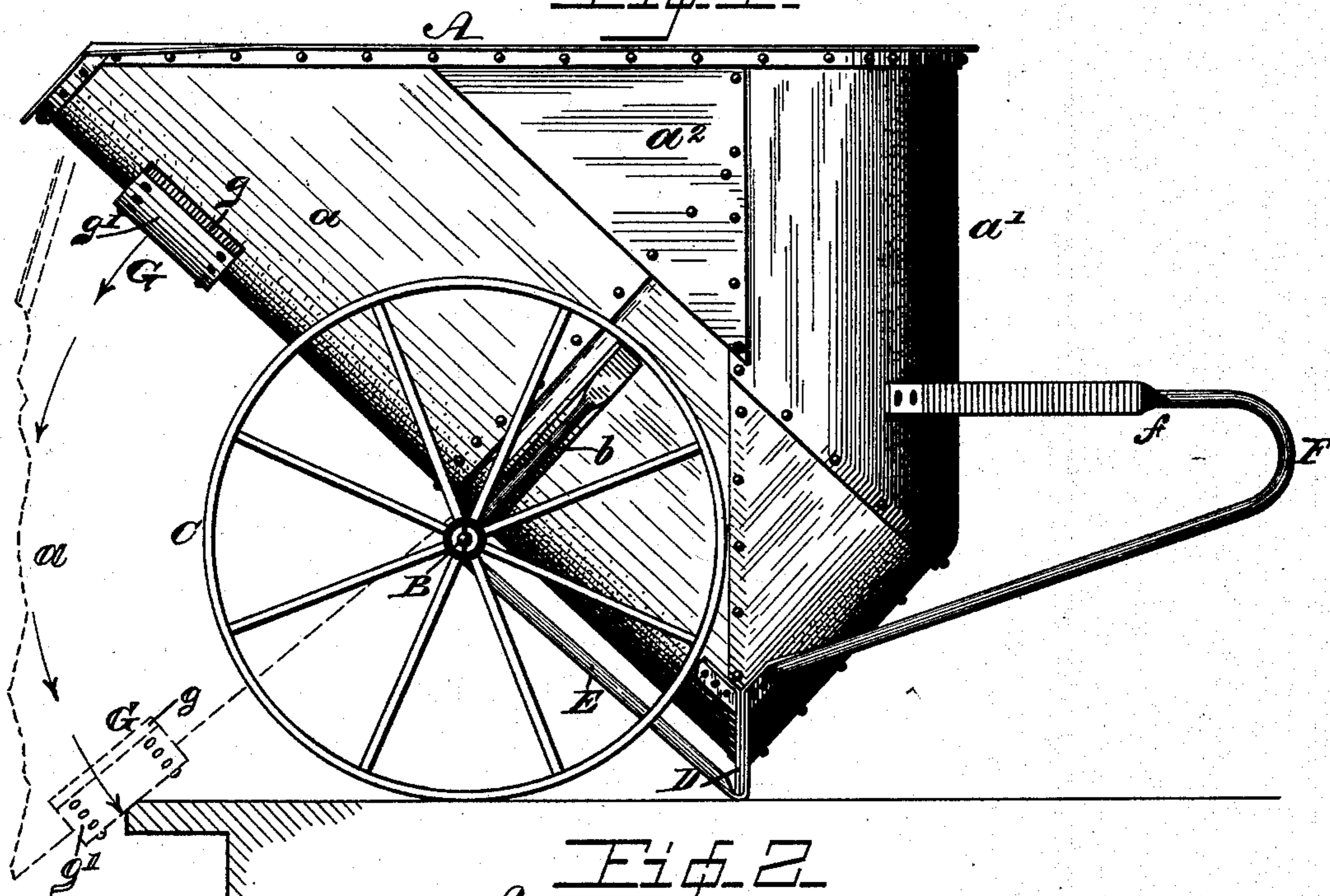
2 Sheets—Sheet 1.

W. M. POTTS.  
BARROW.

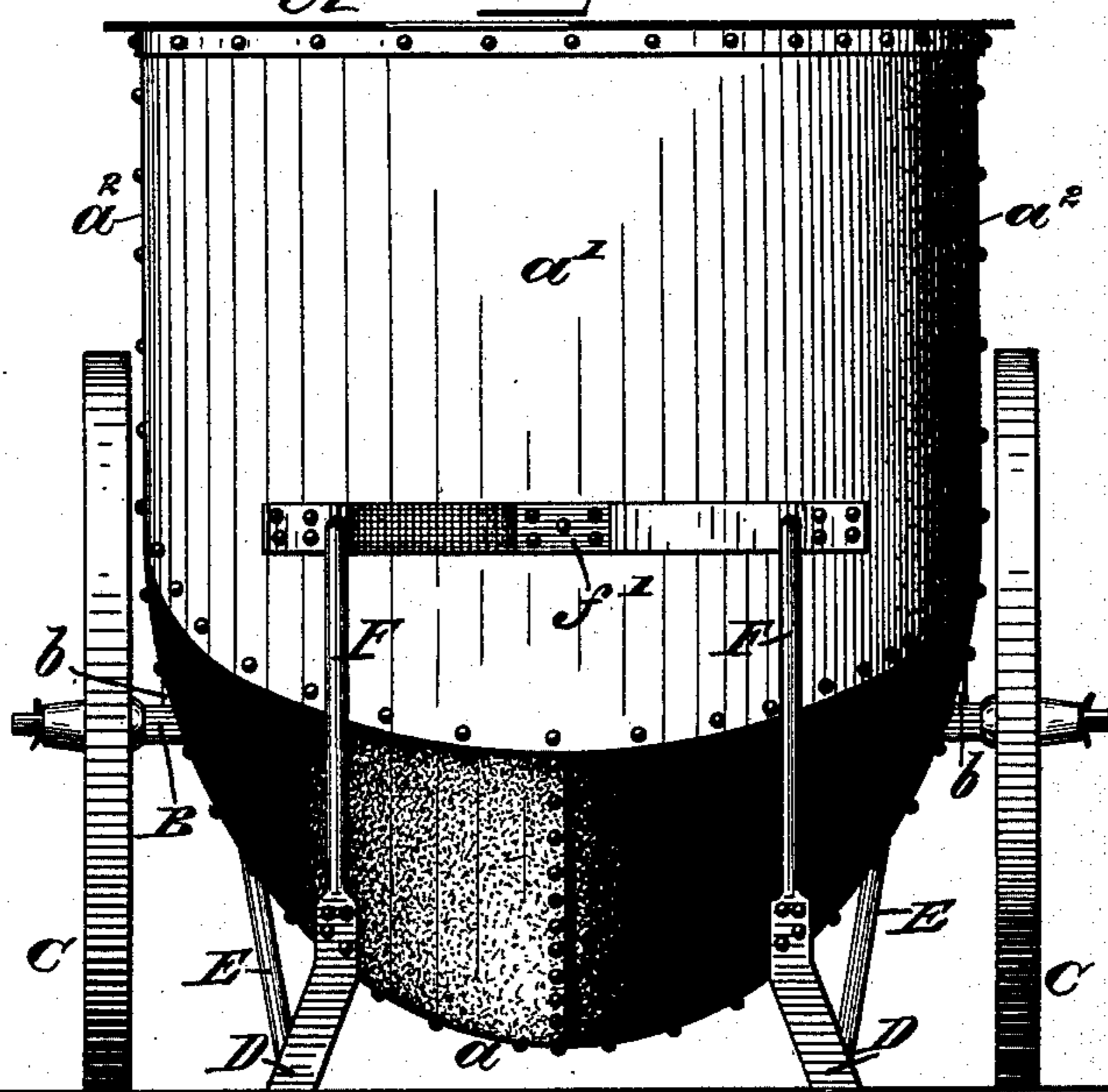
No. 388,715.

Patented Aug. 28, 1888.

*Fig. 1*



*Fig. 2*



WITNESSES:

*L. Douville,*  
*Wm. Moore,*

INVENTOR:

*Wm. M. Potts,*  
BY *Wiedersheim & Kuhn,*  
ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

W. M. POTTS.

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Fig 3

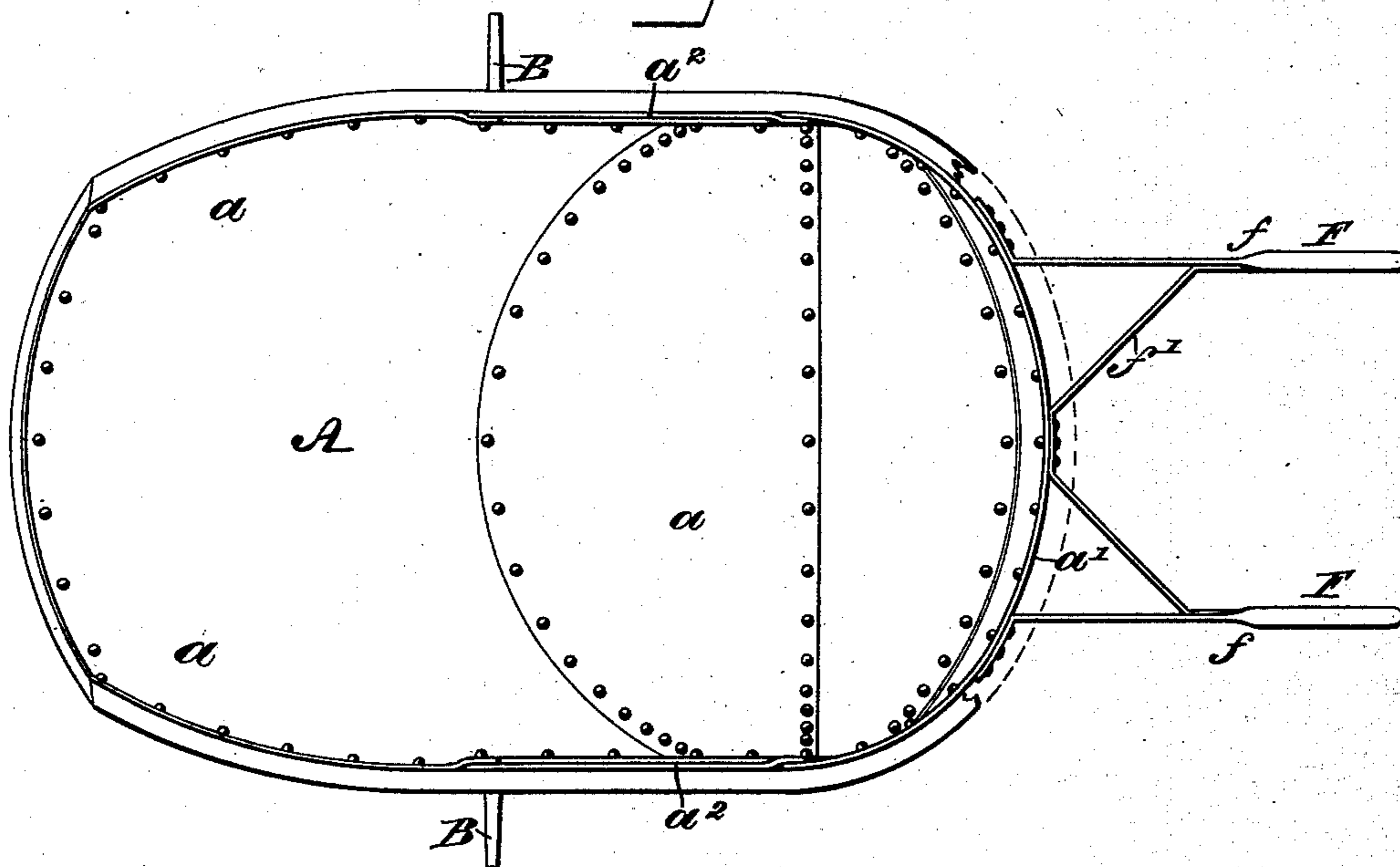


Fig 4

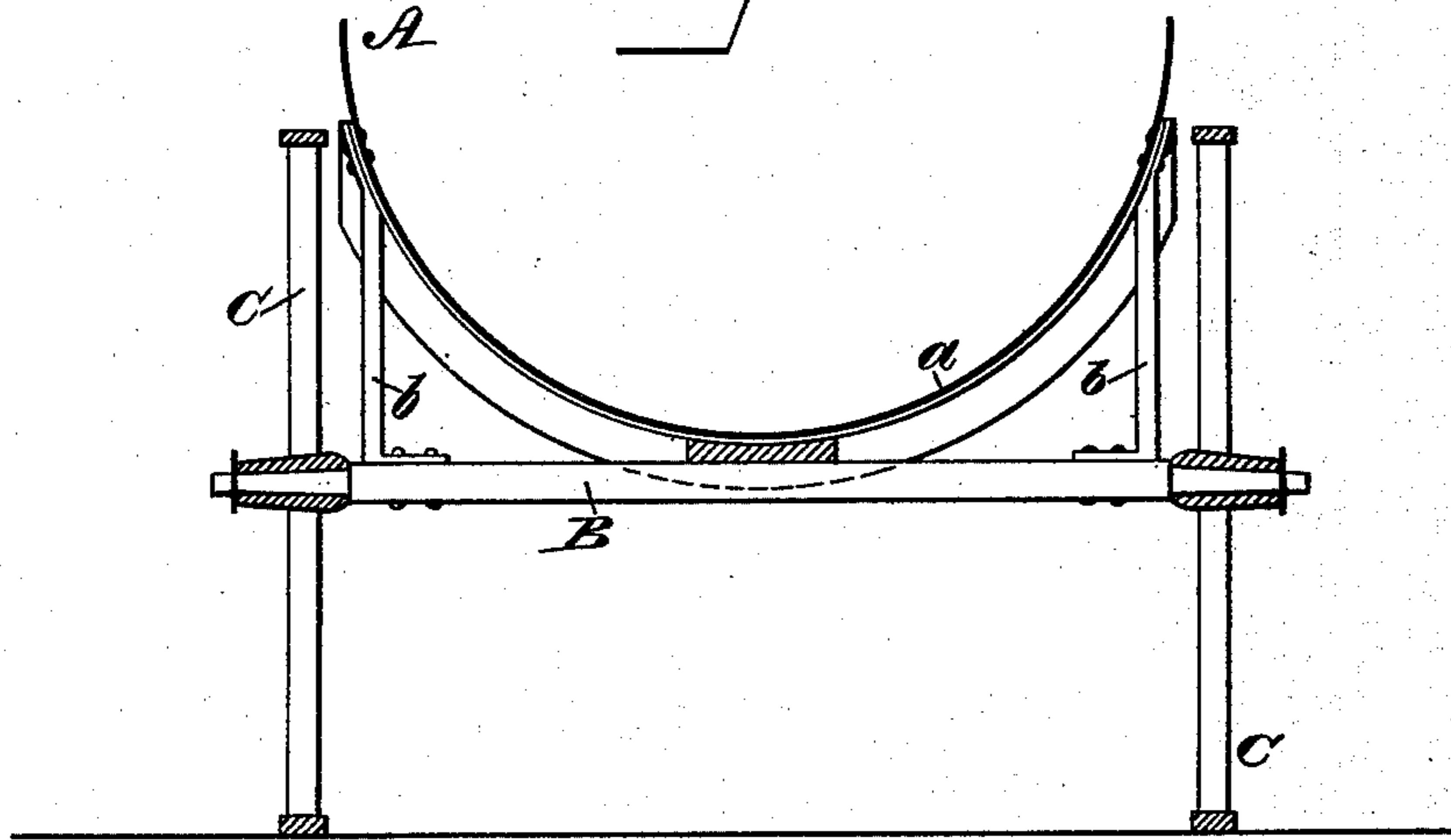
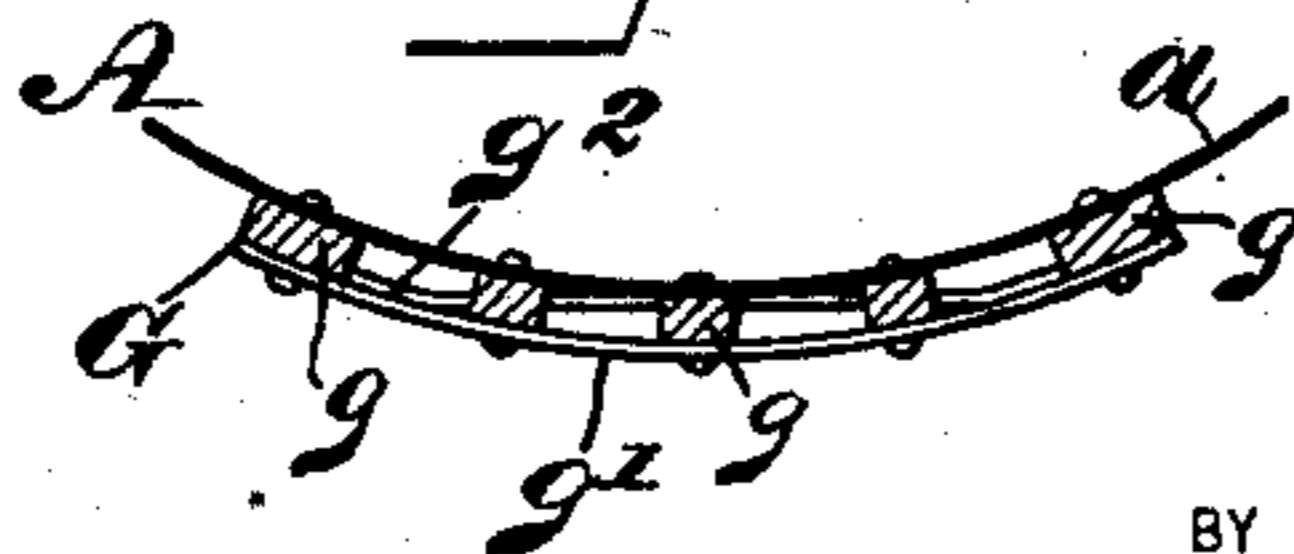


Fig 5

WITNESSES:  
*L. Louville,*  
*Am. M. Co.*



INVENTOR:  
*Wm M. Potts,*  
BY *W. S. Sherman & K. M. K. K.*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

WILLIAM M. POTTS, OF WEST NANTMEAL, PENNSYLVANIA.

## BARROW.

SPECIFICATION forming part of Letters Patent No. 388,715, dated August 28, 1888.

Application filed April 21, 1888. Serial No. 271,396. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM M. POTTS, a citizen of the United States, residing at West Nantmeal, in the county of Chester, State of Pennsylvania, have invented a new and useful Improvement in Barrows, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to improvements in barrows, and especially to a barrow adapted for charging material into furnaces.

The objects of the invention are to produce a barrow which will charge the material into the furnace with ease and efficiency; further, to provide a barrow which will be very light in weight, but of great strength and durability; further, to provide a barrow which will be of very simple construction and inexpensive of production.

With these ends in view the invention consists in a barrow the bottom and front side of which are substantially cylindrical in shape, whereby, when the body is tilted, the material is discharged and follows the center line of the barrow.

It further consists of the combination of the parts, as herein set forth and claimed.

Figure 1 represents a side elevation of a barrow embodying my invention. Fig. 2 represents a rear view thereof. Fig. 3 represents a plan view thereof. Fig. 4 represents a transverse sectional view. Fig. 5 represents a detail view of the buffer-block.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates the body or receptacle of the barrow, which is formed in substantially the shape of a scoop, and consists of a bottom part, *a*, which is curved in cross-section and at its front end and right-lined in the direction of its length, and closed at its rear end, the said rear end being also curved in horizontal cross section, as shown in Fig. 3, and the straight sides *a*<sup>2</sup>, all the above-mentioned parts being constructed of plates of sheet metal formed into the desired shape and secured together by means of bolts, screws, rivets, or the like, to form the body or receptacle.

By forming the body or receptacle of sheet metal and in the shape shown and described

great strength and durability are obtained, and the barrow is made light in weight, which are advantages of vast importance in a barrow of this character.

B designates the axle, secured to the underside of the bottom of the body and braced thereto by the means of the uprights *b*, and C designates the supporting wheels, mounted on the axle. The body is supported in such manner that the front end is normally maintained in an elevated position and the rear end rests upon the ground, floor, or other surface; but the weight on both ends is so disposed as to render tilting of the front end downward very easy, the advantage of which will be seen.

D designates feet depending from the inverted apex at the rear end of the bottom, and on which the rear end of the body rests, and E designates rods formed with the feet and extending therefrom to the axle, forming brace bars or rods for the feet.

F designates the handles, which are secured at their inner ends to the feet, or, if desired, may be formed therewith, and these handles extend outwardly for a suitable distance and bend in at *f*, and are made flat for the balance of their length, and at said flat portions are connected to the rear portion of the body. The handles are braced to the body by means of the flat bars *f*<sup>2</sup>.

It is evident that by reason of connecting the brace-bars from the axle and feet to the handles great strength is obtained.

G designates the buffer-block, secured to the under side of the bottom, near the front end, and this buffer-block consists of the blocks *g*, having the plate *g*<sup>1</sup> passing over them, and screws, rivets, and bolts, or the like, pass through the plate blocks and body to secure the device in place; and *g*<sup>2</sup> designates a brace or tie bar secured to the front face of the plate to prevent the same from flattening.

The manner of using the barrow is as follows: The material for charging the furnace is placed in the body or receptacle, and the same rests on the ground, as shown in Fig. 1. The barrow is then moved to the furnace and the handles elevated, causing the body to assume the position shown in dotted lines, Fig. 1 of the drawings, which brings the buffer-

block against the edge of the furnace-door opening, and causes the material to be discharged directly into the furnace on a central line of the body.

5 The many advantages of my barrow will be readily understood and appreciated by all skilled in the art, and hence need not be further enlarged upon herein.

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

1. The wheelbarrow herein described, consisting of a body portion composed of the bottom part, *a*, curved in a transverse direction to  
15 its length, the back parts, *a'*, and the sides *a''*, connecting said bottom and back parts and provided with an axle and wheels, handles, and feet, said parts being combined substantially described.

20 2. In a wheelbarrow, a body portion consisting of the bottom piece, *a*, curved in a trans-

verse direction to its length, the back part, *a'*, and the sides *a*, connecting said bottom and back, said parts being combined substantially  
25 as and for the purpose set forth.

3. A wheelbarrow having the body A with bottom part, *a*, curved in a transverse direction to its length, the axle B, and wheels C, a handle secured to the body on the side opposite to the discharge side, and a bumper  
30 secured on the central line of said bottom part, *a*, said parts being combined substantially as described.

4. In a wheelbarrow, the combination of the body portion, an axle with wheels, feet D,  
35 and brace-bar E, connecting said feet D to the axle, substantially as and for the purpose set forth.

WILLIAM M. POTTS.

Witnesses:

JOHN A. WIEDERSHEIM,  
JAMES F. KELLY.