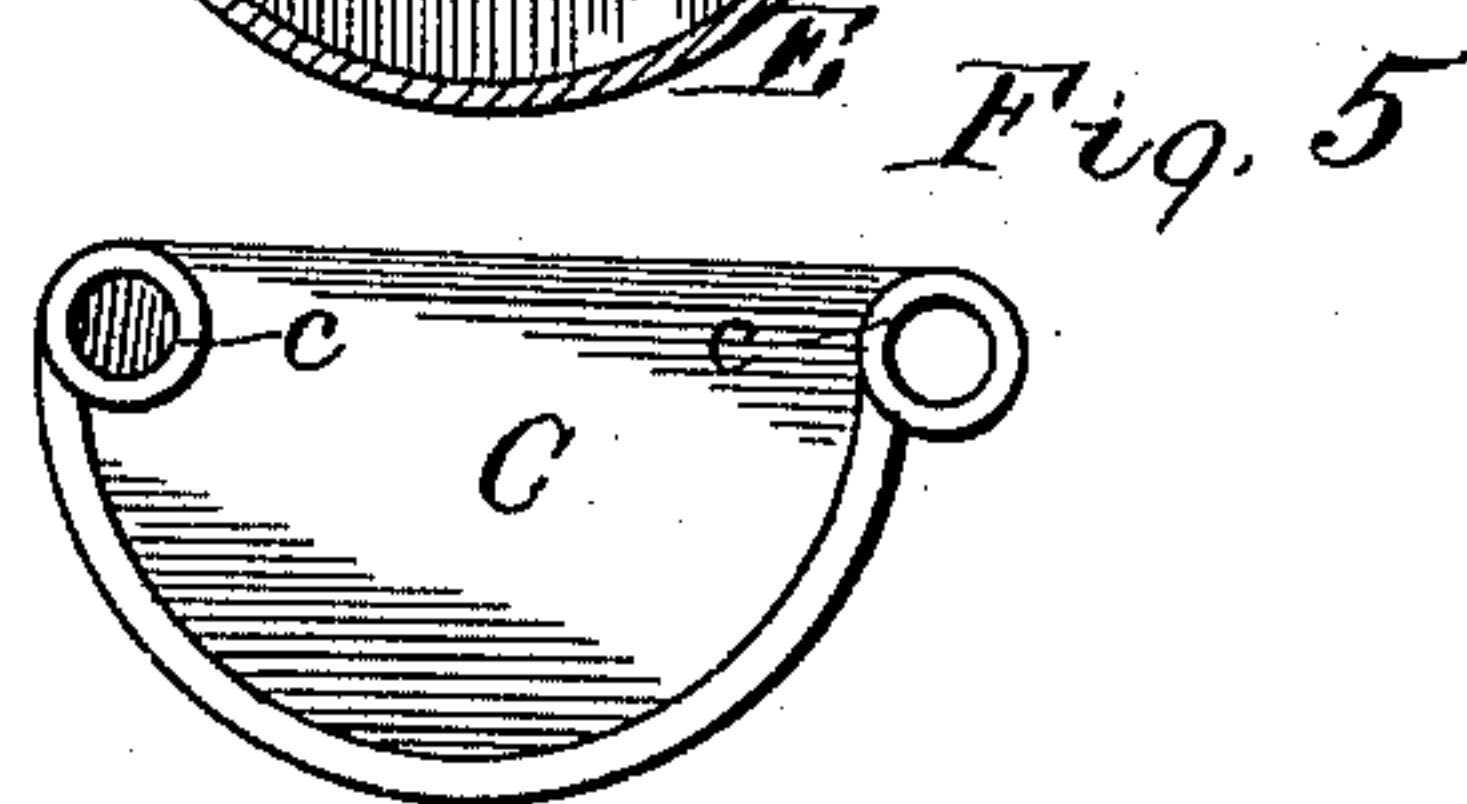
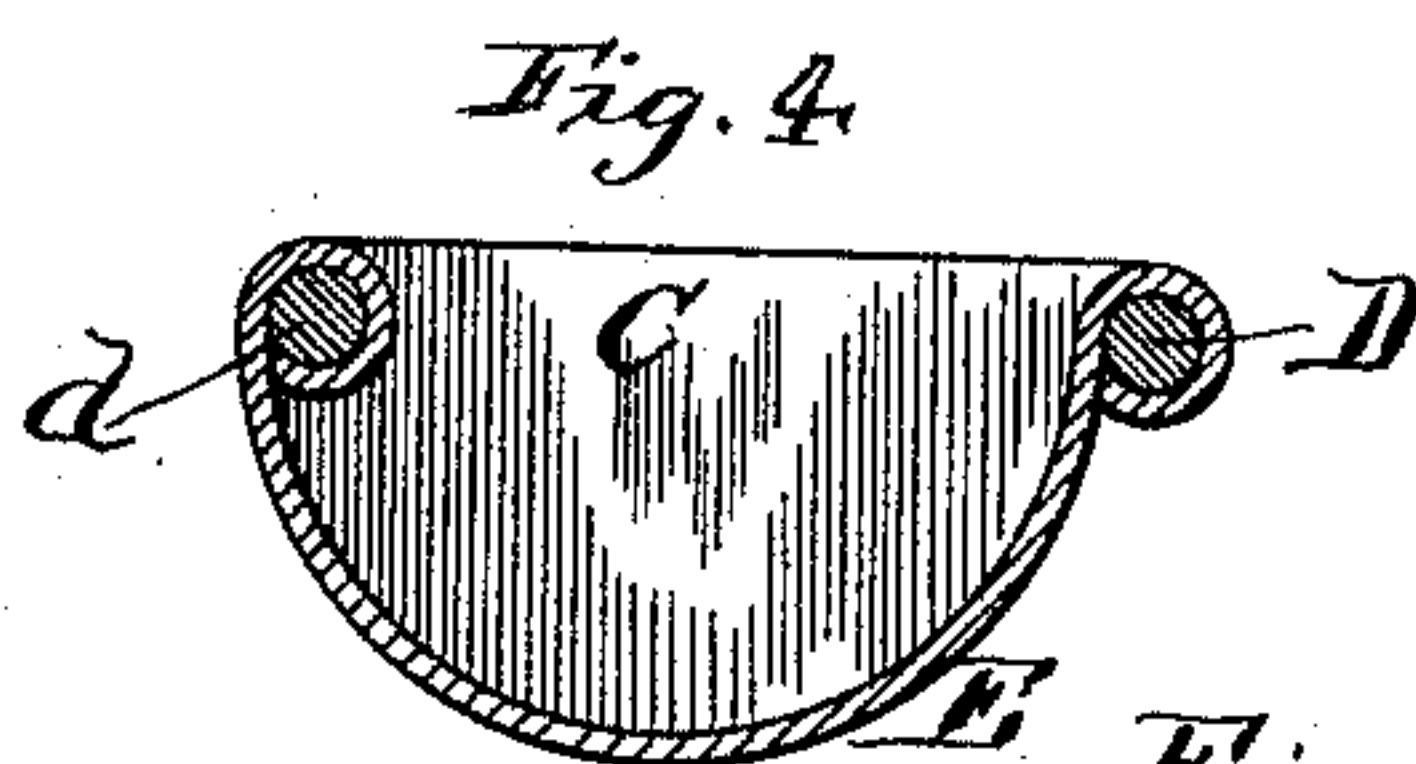
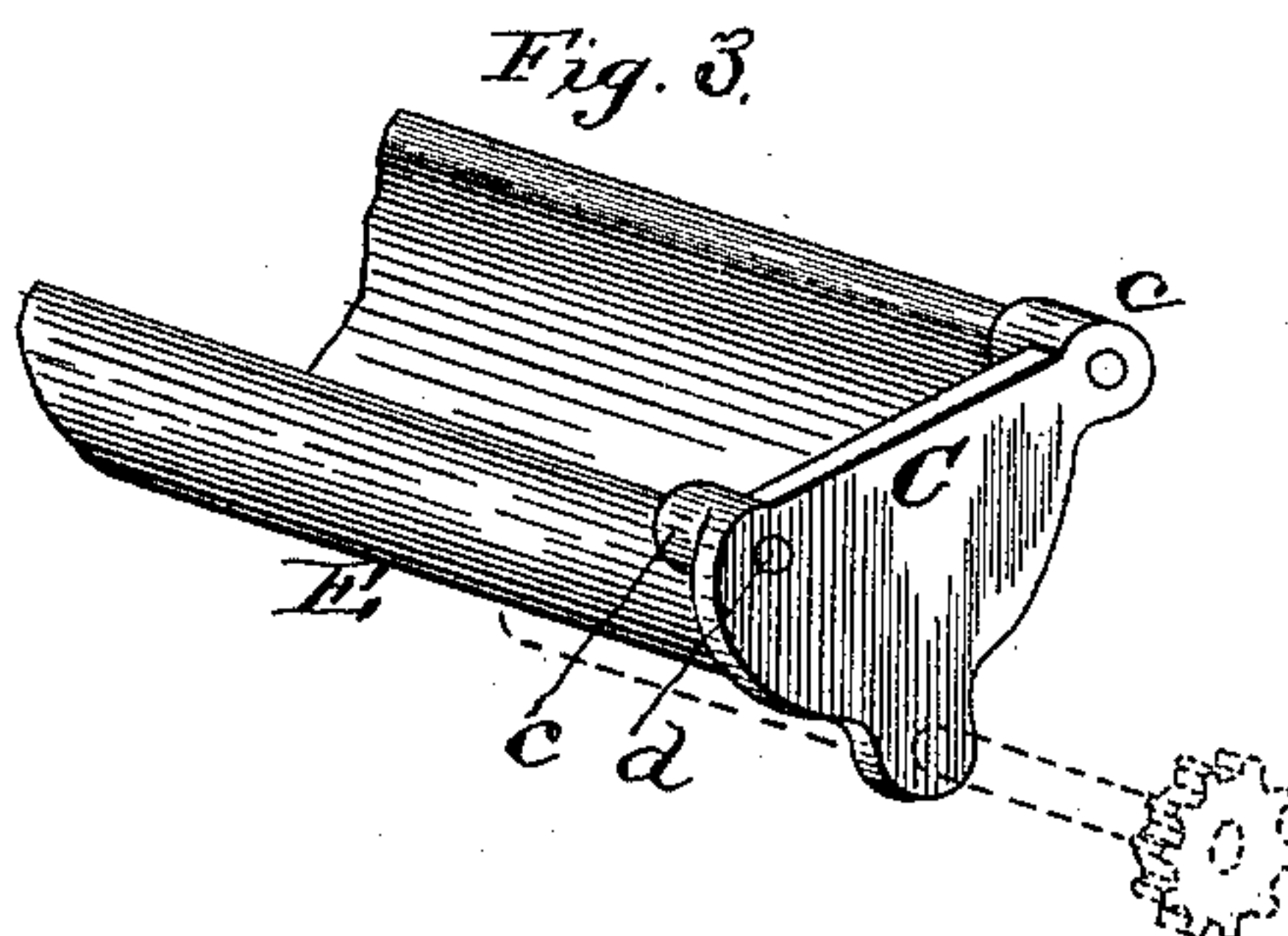
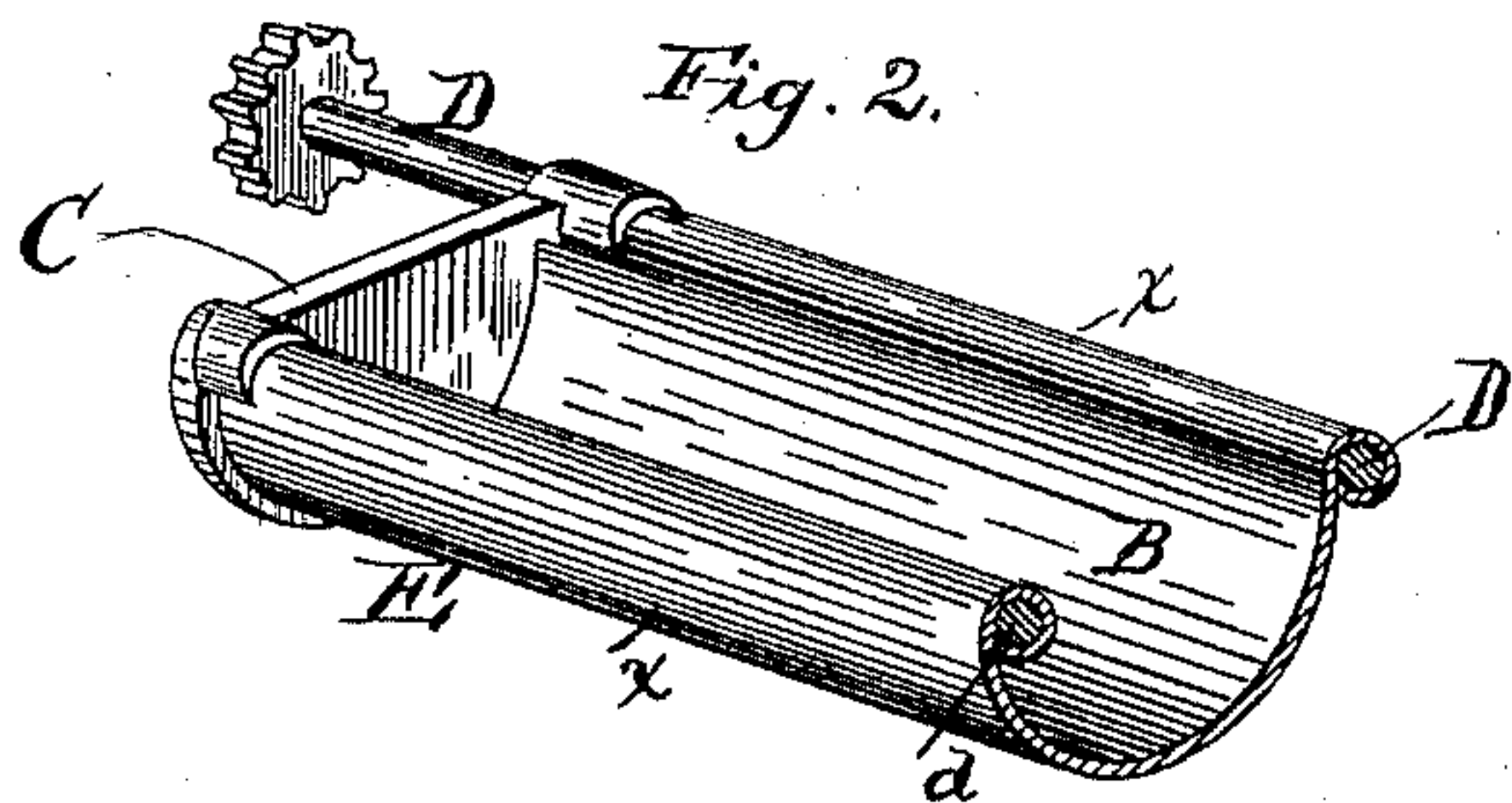
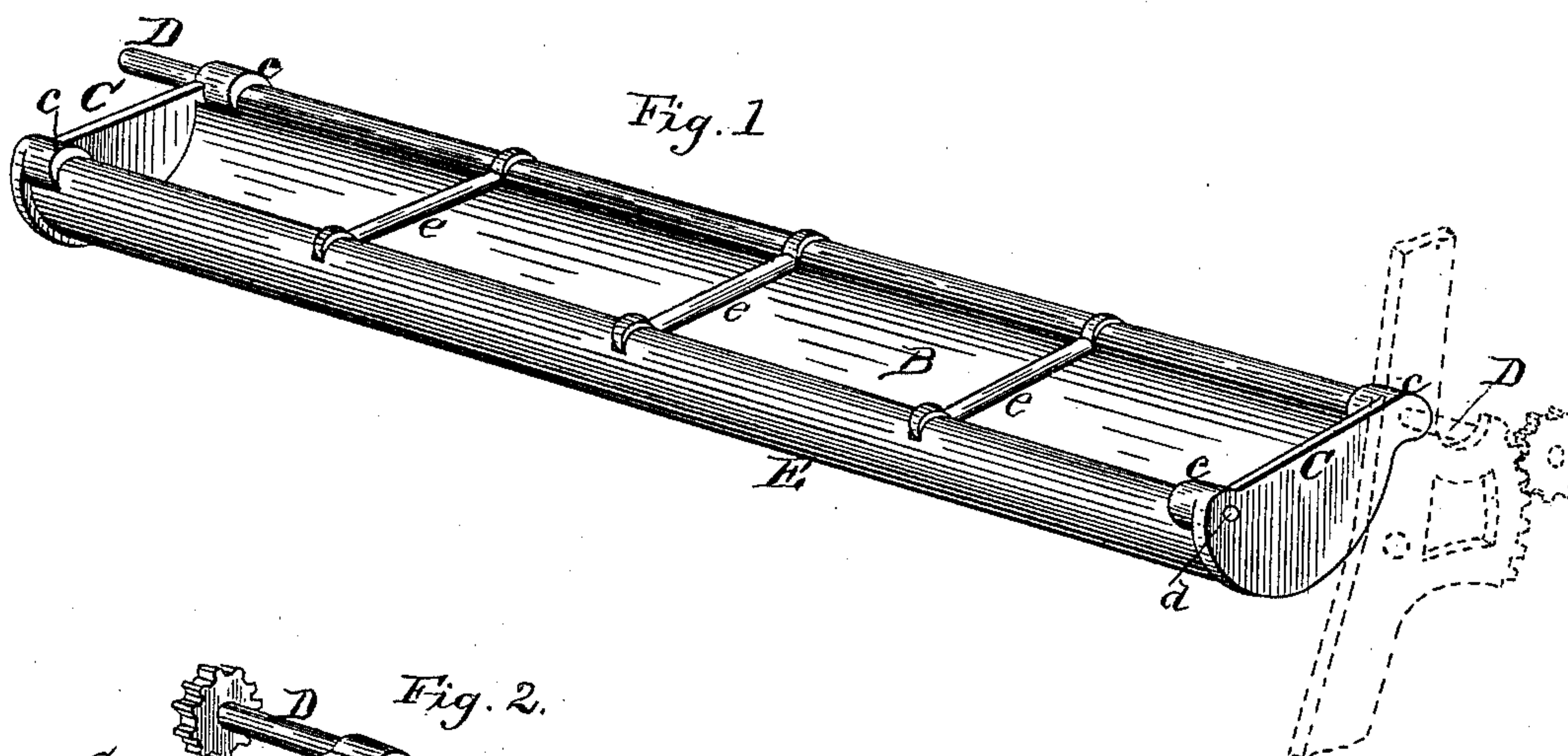


(No Model.)

G. D. BURTON.  
FEED TROUGH.

No. 436,397.

Patented Sept. 16, 1890.



ATTEST—  
Harry L. Amer.  
Will E. Aughinbaugh

INVENTOR—  
Geo. D. Burton  
per E. D. Brashears  
Att'y



# UNITED STATES PATENT OFFICE.

GEORGE D. BURTON, OF BOSTON, MASSACHUSETTS.

## FEED-TROUGH.

SPECIFICATION forming part of Letters Patent No. 436,397, dated September 16, 1890.

Application filed December 26, 1889. Serial No. 334,999. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE D. BURTON, of Boston, in the State of Massachusetts, have invented a certain Improvement in Feed-  
5 Troughs for Stock-Cars, of which the following is a full, clear, and exact description.

The invention relates to improvements in feed-troughs for stock-cars; and it consists in the construction, arrangement, and combination of parts hereinafter described, and pointed out in the claims hereto appended.

It is desirable to construct the trough in such manner that when raised it can be readily and quickly cleared of refuse and washed or  
15 otherwise cleaned.

In the accompanying drawings, in which similar letters of reference designate similar parts, Figure 1 represents a perspective view of a feed-trough embodying the invention. Fig.  
20 2 represents a perspective view of one end of a similar trough at the opposite end of the car. Fig. 3 represents a perspective view of a modification of said trough. Fig. 4 represents a transverse section on the line  $xx$  of  
25 Fig. 2. Fig. 5 is a view in elevation of the inside of the end plate shown in Fig. 2.

Referring to the drawings by letter, B designates a feed-trough adapted to be attached to a stock-car, having a depth less than the  
30 thickness of the car-wall to which it is attached, so that it does not project either inward or outward from the car when raised. The trough B is composed of the end plates C, about semicircular in shape, having on  
35 their inner faces, at their corners, the cylindrical sockets or bearings  $c c$ , the shaft D passing through the sockets or bearings  $c c$  at the lower outer corners of the end plates, the rod  $d$  connecting the bearings  $c c$  at the  
40 upper inner corners of said plates, and the shell or body E, preferably of sheet metal, connecting the said shaft and rod, the corners of said shell or body being cut away rectangularly to permit the bearings  $c$  to embrace the shaft D and rod  $d$ , and permit the  
45 end edges of the shell to abut against the end plates C near to and concentric with the lower curved edges of said plates.  $e e$  are transverse brace-rods connecting the said shaft  
50 and rod, being provided at their ends with eyes that embrace the shaft and rods in openings cut in the edges of the shell, as shown

in Fig. 1. A pivotal shaft or rod D is provided at the outer edge of the trough and a strengthening-rod  $d$  at the inner edge thereof, 55 the edges of the body E of the trough being turned or beaded outwardly around shaft D and inwardly around rod  $d$ , tight enough to prevent said shaft and rod from turning in the sleeves or beads thus made, the outer  
60 edge being wrapped from within outward around the shaft, so that when the inner edge of the trough is raised all refuse can be readily and easily brushed or scraped thereout, and the trough can be quickly washed and dried, 65 as there are no pockets or angles in which refuse or water could collect. The shell has its inner edges wrapped around the rod  $d$  from without inward; but the interior angle formed thereby will be raised when the trough 70 is raised and no refuse can collect therein.

The trough constructed as described is strong and durable, and is not heavy, so that it can be easily raised and lowered, and can also be easily cleaned. 75

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A feed-trough for stock-cars, comprising suitable end plates having sockets or bear- 80 ings on their inner faces at their upper corners, longitudinal rods or bars connecting the opposite sockets or bearings of the end plates, and a shell or body having its side edges wrapped around said rods or bars, its end 85 edges bearing against the end plates, and its upper corners cut away to receive said bearings, as set forth.

2. A feed-trough for stock-cars, comprising semicircular end plates having cylindrical 90 sockets or bearings on their inner faces at their corners, rods or bars connecting the opposite bearings of the two end plates, and the sheet-metal shell with its side edges wrapped around the said rods or bars and its end edges 95 bearing against the end plates near to and concentric with the lower curved edges of said plates, the corners of said shell being cut away to permit the said bearings to embrace said rods or bars, as set forth. 100

3. A feed-trough for a stock-car, comprising the semicircular end plates having bearings on their inner sides at their corners, the longitudinal rods or bars connecting opposite

- bearings of the end plates, the transverse  
brace-rods connecting said bars or rods and  
provided with eyes at their ends, and the  
sheet-metal shell with its side edges wrapped  
5 around said longitudinal bars and cut away  
at its corners and side edges to permit the  
bearings on the end plates and the eyes of  
the brace-bars to immediately embrace the  
longitudinal side bars, as set forth.
- 10 4. In a feed-trough, the combination of the  
end plates having bearings on their inner  
sides at their corners, the pivotal shaft pass-  
ing through and connecting the bearings at  
the outer corners of said plates, the bar or  
rod connecting the bearings at the inner cor- 15  
ners of the plates, and the sheet-metal shell  
with its inner side edge wrapped from with-  
out inward upon said bar or rod, its outer  
side edge wrapped from within outward upon  
said shaft, its upper corners being cut away 20  
to receive the bearings, as set forth.
- In testimony whereof I have hereunto  
signed my name in presence of two witnesses.
- GEO. D. BURTON.
- Witnesses:  
CHESTER MARR,  
R. W. GALLUPE.