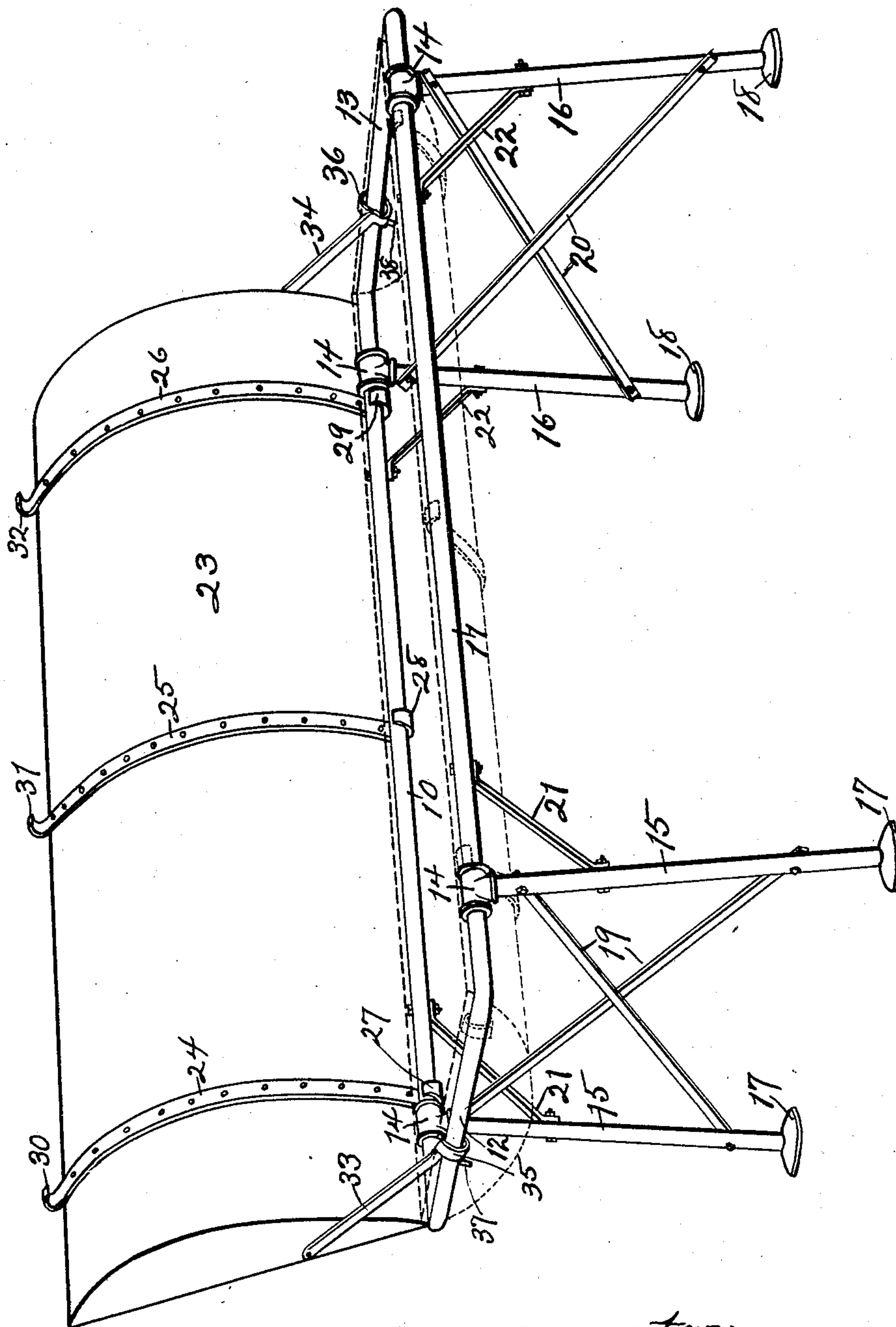


W. A. McCOLLOUGH.
CATTLE FEEDING TROUGH.
APPLICATION FILED MAY 24, 1910.

998,973.

Patented July 25, 1911.



Attest:
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UNITED STATES PATENT OFFICE.

WILLIAM A. McCOLLOUGH, OF WEBSTER CITY, IOWA.

CATTLE-FEEDING TROUGH.

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Specification of Letters Patent.

Patented July 25, 1911.

Application filed May 24, 1910. Serial No. 563,661.

To all whom it may concern:

Be it known that I, WILLIAM A. McCOLLOUGH, citizen of the United States of America, and resident of Webster City, Hamilton county, Iowa, have invented a new and useful Cattle-Feeding Trough, of which the following is a specification.

The object of this invention is to provide an improved construction for feeding troughs.

A further object of this invention is to provide an improved support for cattle-feeding troughs.

A further object of this invention is to provide improved means for cleaning a cattle-feeding trough.

My invention consists in the construction, arrangement and combination of elements hereinafter set forth, pointed out in my claims and illustrated by the accompanying drawing, in which the figure is a perspective of the complete device, dotted lines indicating the trough in position for use.

In the construction of the device as shown a supporting frame is provided, which frame is of rectangular shape and preferably constructed of gas pipe. The frame is composed of side bars 10, 11 and end bars 12, 13 formed integral or suitably connected. The rectangular frame is provided with T's 14 adjacent its four corners, and the laterals of said T's extend downward from said side and end bars. Legs 15, 16 are screwed into the laterals of the T's 14, extend downwardly therefrom and are adapted to support the frame at the desired height. Disks 17, 18, preferably made of cast iron, are secured to the lower end portions of the legs 15, 16 and lend stability to the structure and also prevent the legs 15, 16 from sinking into the ground. The legs of each pair 15, 16 may diverge slightly if desired for the purpose of securing greater stability. Crossed braces 19 are fixed at their ends adjacent the top and bottom portions of and brace the legs 15, and similar crossed braces 20 are provided for the legs 16. A brace 21 is fixed at one end to each leg 15 and at its opposite end to the adjacent side bar 10 or 11 of the frame. A brace 22 is fixed at one end to each leg 16 and at the other end to the adjacent side bar 10 or 11 of the frame. A parti-cylindrical trough 23 is provided and preferably is made of sheet metal. Metal straps 24, 25, 26 are riveted to and transversely of the

under side of the bottom of the trough 23 and the ends of said straps project beyond the edges of said bottom. One end of each strap 24, 25, 26 is curved around the side bar 10 of the rectangular frame forming hinges 27, 28, 29, by means of which the trough 23 may be moved through an arc relative to said side bar. The opposite end of each strap 24, 25, 26 is bent outwardly and downwardly to form hooks 30, 31, 32. The hooks 30, 31, 32 are adapted to engage the side bar 11 of the frame at times and, together with the hinges 27, 28, 29, support the trough 23 upon the frame in position for feeding therefrom. Thus the trough is between and extends below the side and end bars of the frame as shown by dotted lines in the drawing, and said frame has the function of preventing cattle from jamming the edges of said trough. Props 33, 34 are pivoted at one end to end portions of the trough 23 and the opposite ends of said props are formed with elongated loops 35, 36 embracing the end bars 12, 13, respectively of the supporting frame. The loops 35, 36 are adapted to slide on the end bars 12, 13 during movement of the trough through an arc relative to the frame bar 10. Rearward movement of the loops 35, 36 on the bars 12, 13 is limited by pins 37, 38 projecting from said bars to the rear of the centers thereof. By means of the props 33, 34 and pins 37, 38 the trough 23 is held in the position shown by solid lines in the drawing, and when so held is inclined a trifle beyond the vertical position. The trough may be placed in this position for purposes of cleaning or emptying, or to hold it out of the way of the stock between feeding times.

I have found that by making this trough of sheet metal it can be made very light and durable, is easily handled and cleaned, and can be kept in sanitary condition with a minimum of labor. It preferably is made water-tight so that it can be employed for slop feed or even used as a water trough when desired.

I claim as my invention—

1. In a cattle-feeding trough a rectangular gas-pipe frame, braced legs on said frame, a parti-cylindrical sheet-metal trough hinged to one side bar of said frame, hooks on the opposite side of said trough adapted to engage the opposite side bar of said frame and support said trough in horizontal position, props hinged at one end to end por-

tions of said trough, the opposite ends of said props formed with loops, said loops engaging and adapted to slide on end bars of said frame, and means for limiting rearward movement of said loops and supporting said trough in elevated position.

2. In a cattle-feeding trough, a gas-pipe frame formed with side and end bars, T's on said side bars, gas-pipe legs screwed into laterals of said T's, said legs braced together and also braced to said frame, disks on lower end portions of said legs, a sheet-metal trough, straps fixed to and extending transversely of the bottom of said trough, hinges on one end of the straps, said hinges

pivoted to one side bar of the frame, hooks on opposite ends of said straps adapted to engage the opposite side bar of said frame, props hinged at one end to end portions of said trough, loops on opposite ends of said props, said loops engaging and slidable on the end bars of said frame, and pins on said end bars limiting rearward movement of said loops.

Signed be me at Webster City, Iowa, this 17th day of May, 1910.

WILLIAM A. McCOLLOUGH.

Witnesses:

H. O. CUTLER,
E. E. MASON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
