

H. FRIEDRICH.
MANGER.

No. 171,930.

Patented Jan. 11, 1876.

Fig. 1

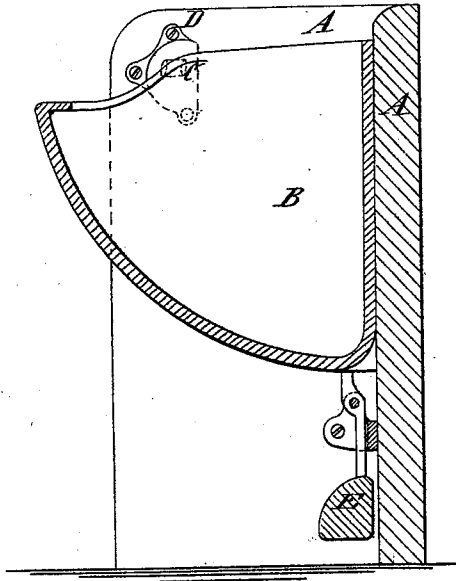
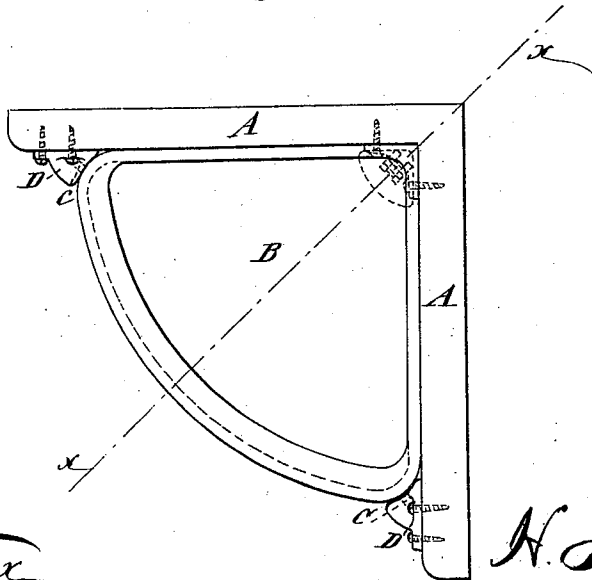


Fig. 2



WITNESSES:

C. Kewell
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INVENTOR:

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BY

mmmm
ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY FRIEDRICH, OF NEW YORK, N. Y.

IMPROVEMENT IN MANGERS.

Specification forming part of Letters Patent No. **171,930**, dated January 11, 1876; application filed April 17, 1875.

To all whom it may concern:

Be it known that I, HENRY FRIEDRICH, of the city and State of New York, have invented an Improvement in Oat-Mangers, of which the following is a specification:

Mangers have been made reversible upon trunnions at their ends, so as to empty the contents; but in these cases it has been necessary to use large and expensive brackets projecting from the wall, upon which the trunnions rest. Triangular mangers, to set into an angle of the wall or stall, have also been made; but they have not been reversible.

My improvement consists in combining, with a triangular manger, pivots or trunnions at the front angles, and triangular bearing-blocks for such pivots, attached to the wall, and in which the pivots turn. By this construction the expensive brackets heretofore used are dispensed with, and the triangular bearing-blocks set upon the wall, and have their faces parallel to each other, so that the trunnions will be properly supported, which could not be done if the said bearing-blocks were not triangular.

In the drawing, Figure 1 is a section at the line *xx* of Fig. 2, and Fig. 2 is a plan of said manger.

The manger B is made with two of its sides at right angles to each other, or nearly so, to correspond with the angle between the walls A of the stall.

The front of the manger is generally curved, and the front corners are also removed and rounded, so as to be made with pivots or

trunnions C in line with each other, and projecting into the sockets in the triangular bearing-blocks D. These triangular bearing-blocks D are adapted to being attached directly to the surfaces of the wall or stall that are at right angles to each, and with this object in view there are holes for screws or nails, and the sockets for the pivots *c* stand at an angle of forty-five degrees to the back of the block, so that such sockets will be in line with each other and with the pivots upon the manger, and the distance between the faces of these bearing-blocks will be rather more than the measurement of the manger at the bases of the pivots, so that the manger will pass freely in between the bearing-blocks, and the pivots be received by such blocks between their parallel faces.

The manger is sustained at the bottom by a latch, E, and by pressing this latch back the manger can be swung downward and forward until it is turned completely upside down upon its trunnions to empty the contents.

I claim as my invention—

The triangular bearing-blocks D, with sockets at an angle of forty-five degrees, or nearly so, to their backs, in combination with the triangular corner manger, with the pivots *c* at the front ends thereof, as set forth.

HENRY FRIEDRICH.

Witnesses:

T. B. MOSHER,

ALEX. F. ROBERTS.