

O. J. SMITH.
Watering-Trough.

No. 205,430.

Patented June 25, 1878.

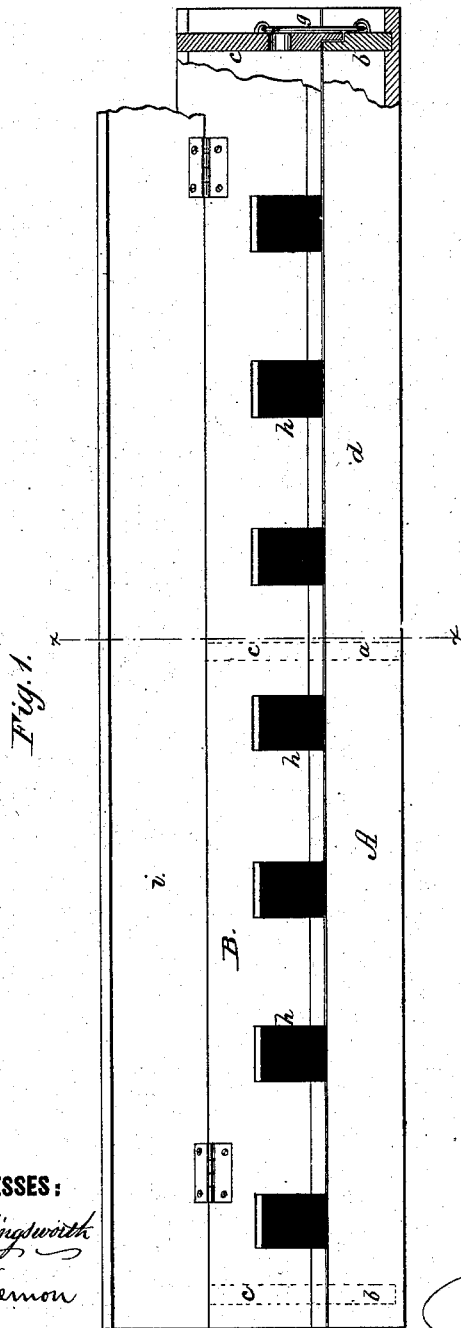


Fig. 1.

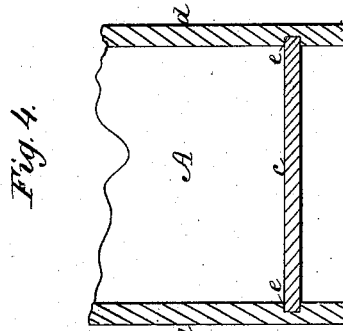


Fig. 4.

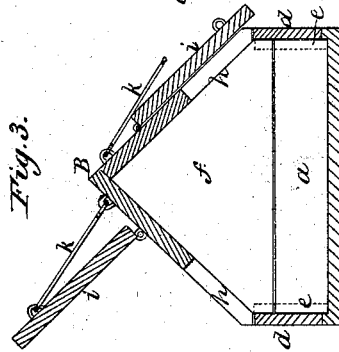


Fig. 3.

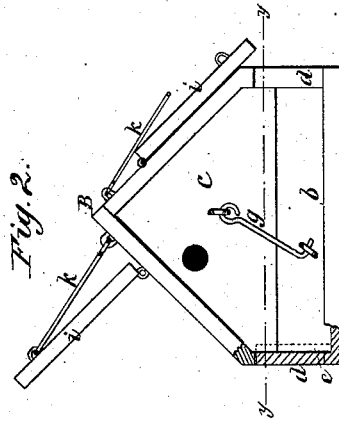


Fig. 2.

WITNESSES:

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ORSON J. SMITH, OF FARMER CITY, ILLINOIS.

IMPROVEMENT IN WATERING-TROUGHS.

Specification forming part of Letters Patent No. **205,430**, dated June 25, 1878; application filed May 17, 1878.

To all whom it may concern:

Be it known that I, ORSON J. SMITH, of Farmer City, in the county of De Witt and State of Illinois, have invented a new and Improved Watering-Trough; and I do hereby declare that the following is a full, clear, and exact description of the same.

My improved trough is formed of two parts—a cover and a base—which are relatively so constructed that they fit together, but may be easily detached.

In the accompanying drawing, forming part of this specification, Figure 1 is mainly a side elevation of the trough, one end being in section. Fig. 2 is an end elevation with part broken away. Fig. 3 is a cross-section on line *x x* of Fig. 1. Fig. 4 is a detail horizontal section on line *y y* of Fig. 2.

The trough proper, A, has an oblong rectangular form, and the cover B a triangular or gable form. The trough A is shallow, and provided with a transverse central partition, *a*, and parallel end pieces *b b*, which are rabbeted on the upper edge to form a lap-joint with the triangular ends *c* of the cover B, which are similarly rabbeted on the lower edge. The sides *d d* of the trough are provided with gains or mortises at *e e e*—that is to say, at points opposite the partition *a* and end pieces *b b*—to receive the ends of the triangular ends *c c* and central partition *f* of the cover B.

The lower edges of the cover rest on the upper edges of the trough, and the two are secured together by hooks and staples *g*, applied to their ends, which devices permit their convenient detachment when required.

Openings *h* are formed in each side of the cover B, to allow the stock to have access to the water, and the openings on one side alternate in position with those of the other, so

that animals may not interfere with each other when drinking at both sides of the trough at the same time. Boards or lids *i* are hinged to the inclined sides of the cover B, so as to lie flat thereon, and thereby close the openings *h*, or to be held elevated by hooks *k*.

The use of the cover as a whole is chiefly to shade the water and prevent access of snow or dust or other foreign substance to it; also, to prevent small stock getting into the trough. This function is more perfectly performed by adding the hinged pieces *i*; but a good result is obtainable without them. The openings in the cover prevent stock crowding while drinking, and enable a greater number to drink at one time from a trough of a given length than would be otherwise practicable.

Water may be supplied to the trough through valved openings in the ends of the cover. It is obvious that in place of a roof or cover of gable form one side only may be inclined and the other vertical, openings being in such case formed in the inclined side, but not in the other.

I do not claim, broadly, a trough having a gable roof or cover provided with hinged sides and openings therein.

What I claim is—

The improved watering-trough for live stock, consisting of the base portion A, having sides provided with gains *e* and the rabbeted ends *b b*, and the detachable cover B, having rabbeted triangular ends *c c*, also provided with openings *h* in the inclined sides, the hinged lids *i*, and the hooks and staples for connecting the base and cover, all combined as shown and described.

ORSON J. SMITH.

Witnesses:

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