(No Model.)

F. R. KENT.

FEED TROUGH.

No. 432,671. Patented July 22, 1890.

Fig. 1.

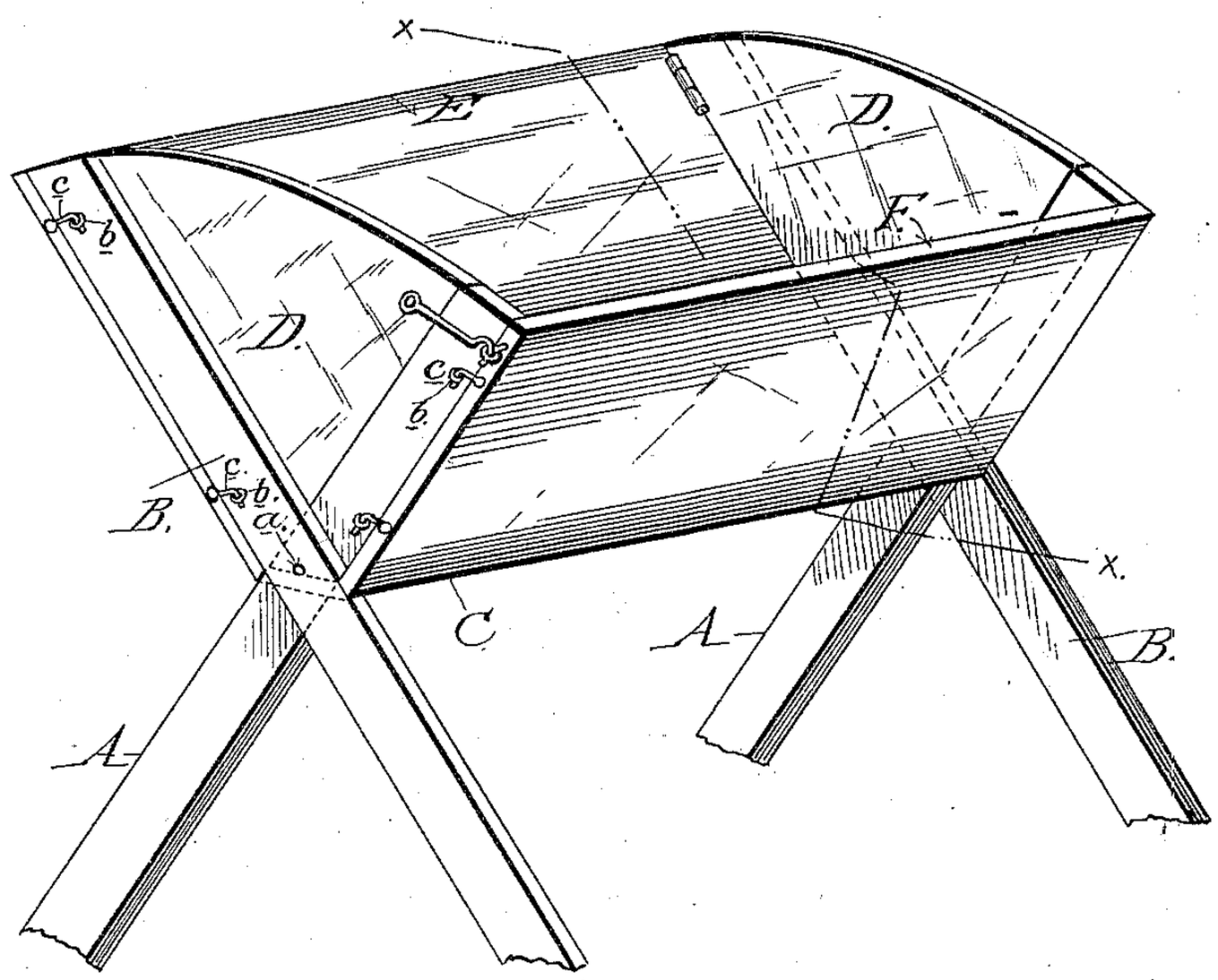
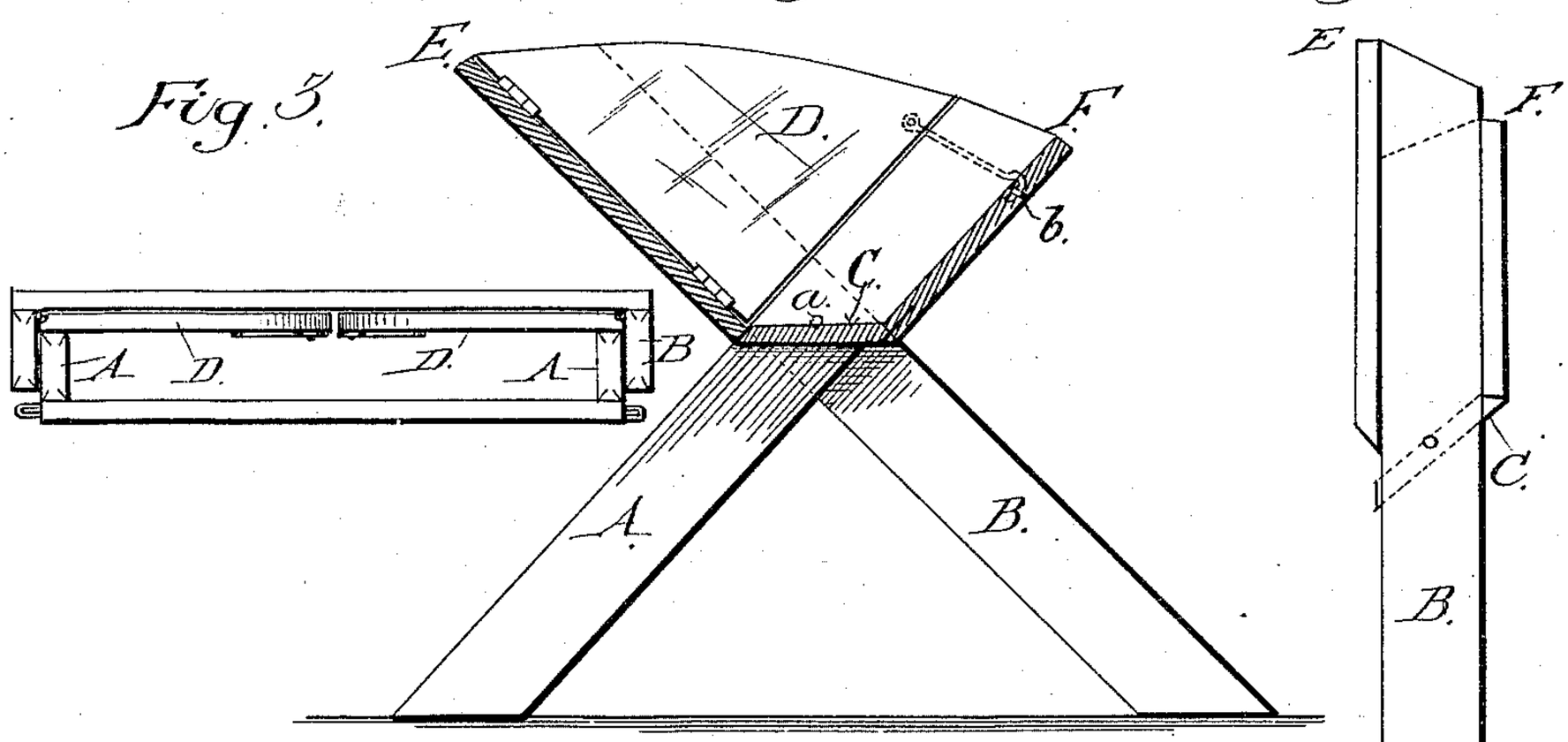


Fig. 2.

Fig. 4.

Fig. 3.



WITNESSES

T. D. K. Fowler,

A. W. Evans.

INVENTOR

Frederick R. Kent,

by A. H. Evans & Co

Attorneys

UNITED STATES PATENT OFFICE.

FREDERICK R. KENT, OF BALTIMORE, MARYLAND.

FEED-TROUGH.

SPECIFICATION forming part of Letters Patent No. 432,671, dated July 22, 1890.

Application filed March 18, 1890. Serial No. 344,306. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK R. KENT, a citizen of the United States, residing at Baltimore city, State of Maryland, have invented certain new and useful Improvements in Feed-Troughs for Horses, of which the following is a full and clear description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of my improved feed-trough. Fig. 2 is a sectional view on the line *x x* of Fig. 1. Figs. 3 and 4 are details to be referred to.

My present invention relates to folding feed-troughs, in which the several parts can be folded up for convenient transportation or packing away when not in use; and it consists of the combination and arrangement of the several parts, as hereinafter described and claimed.

To enable others skilled in the art to make and use my invention, I will now describe its construction.

In the drawings, A and B represent the folding cross-legs at one end of the trough, loosely pivoted together at *a*, so as to allow them to fold up, as shown in Fig. 1. The leg B, I make a little longer than the leg A, in order to make the rear side E of the trough higher than the front F. On the upper portion of the legs I attach the rings *b* to receive the hooks *c*, fastened to the sides of the troughs, by means of which the sides are detachably secured to the legs. It is evident from this construction that the sides may be readily lifted from the legs whenever it is desired to fold up the trough for packing or transportation. If desired, the sides may be nailed or otherwise rigidly secured in position.

C represents the bottom of the trough, and is nailed or otherwise rigidly secured its whole length to one of the sides of the trough, preferably the low side, and at an angle of about forty-five degrees to the surface of the side, as shown in Fig. 2, so that when the legs are spread the opposite side of the bottom is brought up in close contact with the beveled lower edge of the other side of the trough, as shown in Fig. 2.

The ends D of the trough are hinged to one of the sides, as shown in Fig. 3, so that they will fold back on the sides and out of the way when it is desired to fold up the trough.

While I have shown but a single trough, it is evident that the trough may be made of any desired length by adding additional supports. Thus I produce a trough that can be readily handled and folded for transportation and at a cost almost nominal.

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

1. A folding feed-trough consisting of pivoted legs, each of which has secured to it a portion which forms a side of the trough, and one of said side portions having rigidly secured to it at an angle a bottom portion adapted to lie under the bottom edge of the opposite side portion when the trough is open, and hinged end portions adapted to fold inward, substantially as herein described.

2. A folding feed-trough consisting of pivoted legs, the sides E and F, removably fitted to the upper portions of said leg portions, one of said sides having rigidly secured to its lower edge the bottom C, the hinged end sections adapted to fold inward, and means for securing said sections when thrown outward.

3. In a folding feed-trough, the folding legs A and B, provided with the rings *b*, in combination with the detachable sides E and F, provided with the hooks *c*, and the hinged ends D, substantially as and for the purpose set forth.

FREDERICK R. KENT.

Witnesses:
G. C. WITMER,
H. B. APPLEWHAITE.