To all whom it may concern:

Be it known that I, EDWARD CARLSON, a citizen of the United States, residing at Parkers Prairie, in the county of Ottertail and State of Minnesota, have invented certain new and useful Improvements in Hog-Feeding Troughs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to provide an improved feed trough especially adapted for use in feeding hogs, and to such ends, generally stated, the invention consists of the novel devices and combinations of devices hereinafter described and defined in the claim.

The invention is illustrated in the accompanying drawings wherein like characters indicate like parts throughout the several views.

Referring to the drawings; Figure 1 is a perspective view with parts broken away, showing the improved feed trough; and Fig. 2 is a transverse vertical section taken on the line \( x = x' \) of Fig. 1.

The trough is made up of an inverted V-shaped bottom plate 1, end plates 2, side plates 3 and cover plates 4. The V-shaped bottom plate 1 is extended at both lower edges to form feed troughs 5, outward of the lower edges of the side plates 3. The side plates 3, as entireties, are vertically adjustable, so as to vary the rate of feed from the hopper or body of the feed trough, into the troughs 5. The end plates 2 and bottom plate 1 are riveted or bolted to flanges of angle iron, corner strips 6, and the vertically adjustable side plates 3 are adjustably secured to the inturned flanges of said corner angles, by slot and bolt connections 7.

The downwardly flaring corner angles 6 are shown as extended at their lower ends to afford supporting legs 8 that may either rest directly upon the ground, or may be secured to wooden supporting beams 9, which beams may be extended either transversely, or longitudinally of the trough. The side edges of the cover 4 are extended downward at 9\( ^\circ \) far enough, so that they will overlap the upper edges of the adjustable side plates 3, even when the latter are moved downward against the bottom plate 1. Preferably, the cover 4 is made in two parts or sections, two sections at their abutting edges being hinged together and to the top of the hopper, by a hinge rod 9. Preferably, angle strips 10 are secured to the upper edges of the end plates 2, and the hinged top plates 4 are provided with depending end flanges 4\( ^\circ \) that overlap the same. Also, the hopper is preferably divided into two compartments, by a centrally located partition 11 rising from the ridge of the bottom plate 1 and secured at its ends to the end plates 2.

Hitherto, in feed troughs of the hopper type, it has been customary to provide the side plates that overlie the feed troughs proper with supplemental vertically adjustable sections for regulating the feed from the hopper into the feed troughs.

One of the chief features of this invention consists in making these side plates complete and adjustable, as entireties, to regulate the feed from the hopper into the feed troughs; and another feature consists in providing the cover with flanges that overlap the upper edges of the side plates in all adjustments of the said side plates, so as to prevent opening of the hopper when the side plates are lowered, so as to cut off the supply of feed from the hopper into the feed trough.

The sections of the hinged cover 4 may, as is evident, be independently raised, so as to afford independent access to the compartments of the hopper. The feed trough described, may, of course, be made in all sizes, either as to length or other proportion. All of the plates thereof, are preferably made from galvanized commercial rolled metal sheets. In actual practice, the device has been found highly efficient for the purposes had in view.

What I claim is:

A hopper having a pair of inverted, laterally-spaced angle strips, having at their ends floor-engaging feet, an inverted V-shaped bottom plate secured to the horizontal flanges of said angle strips, end plates secured at their lower edges to the vertical flanges of said angle strips and having flanges at their vertical edges, a hinge rod connecting said end plates, side plates slideably mounted as entireties on the vertical
flanges of said end plates, a partition secured to said end plates and extending upward from the apex of said bottom plate, and covers pivotally mounted on said hinge rod and having, at their outer edges, depending flanges that overlap the edges of said side plates in all adjustments thereof, the edge portions of said bottom plates outward of the side plates, being bent upward to afford feed troughs.

In testimony whereof I affix my signature in presence of two witnesses.

   EDWARD CARLSON.

Witnesses:
   BERNICE G. WHEELER,
   HARRY D. KILGORE.