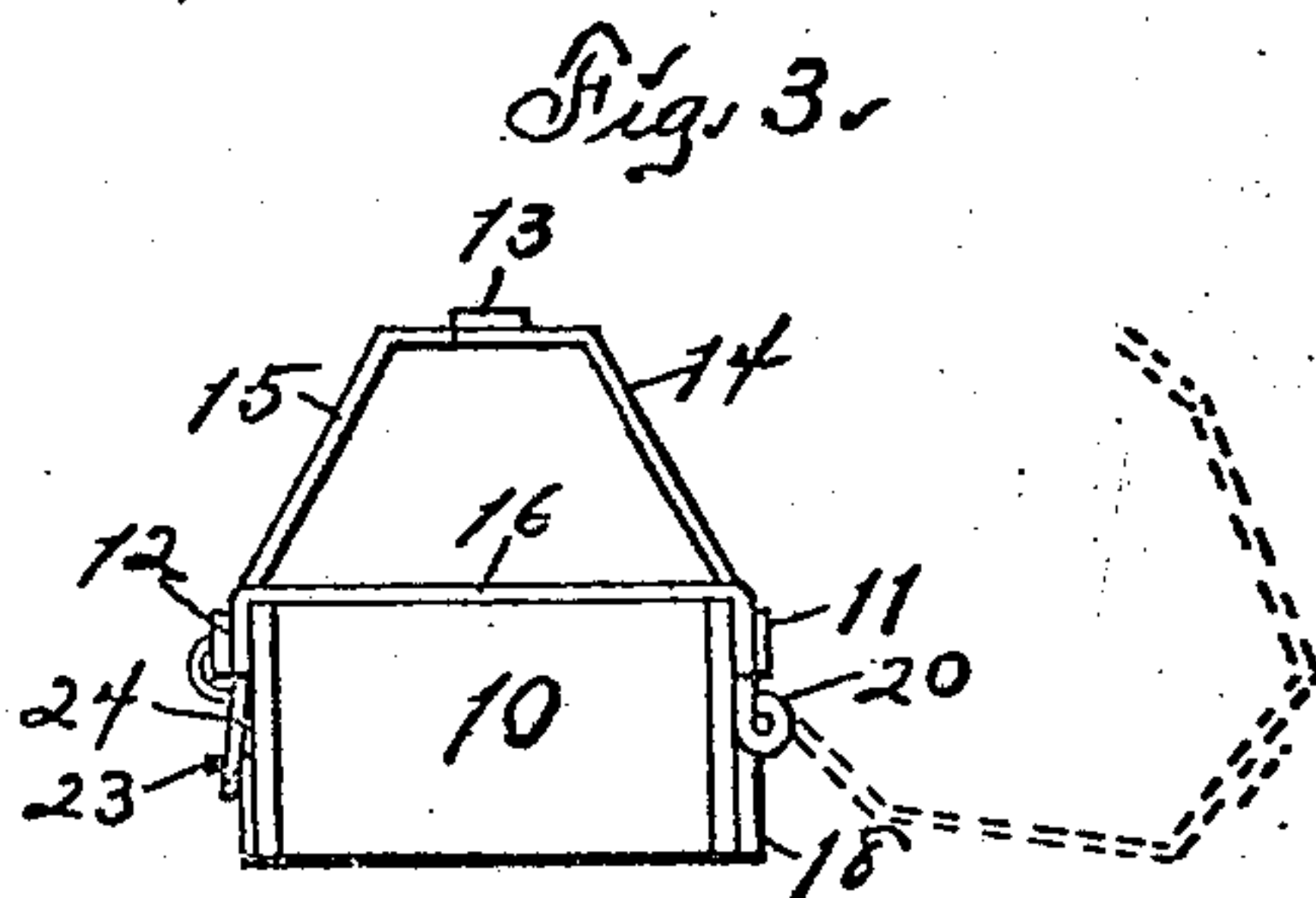
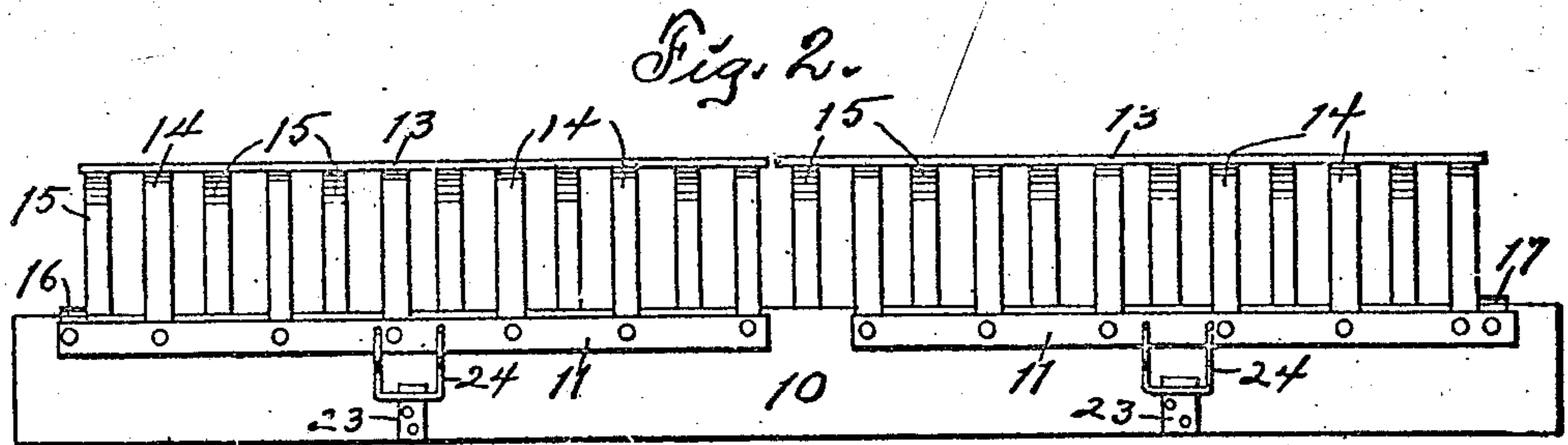
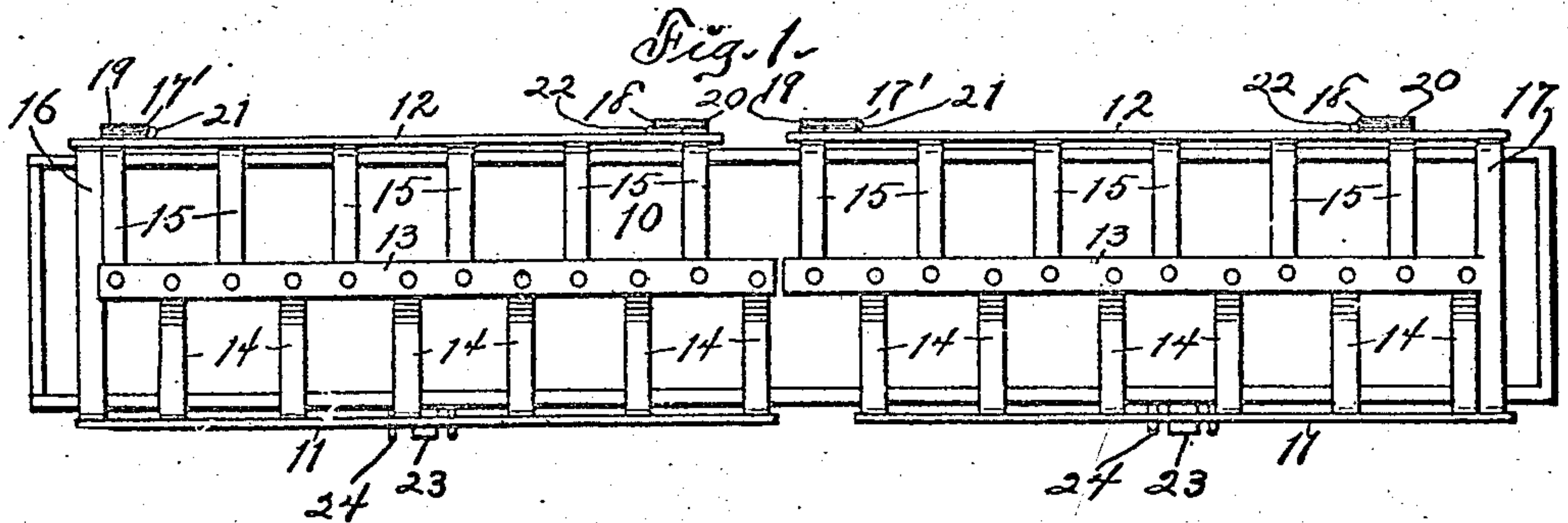


W. A. McCOLLOUGH.
RACK FOR FEEDING TROUGHS.
APPLICATION FILED APR. 5, 1907.

899,125.

Patented Sept. 22, 1908.



Attest:
W. A. Ellis
J. W. Winter

Inventor:
William A. McCollough,
By J. E. Swarth Atty.

UNITED STATES PATENT OFFICE.

WILLIAM A. MCCOLLOUGH, OF MARSHALLTOWN, IOWA.

RACK FOR FEEDING-TROUGHS.

No. 899,125.

Specification of Letters Patent.

Patented Sept. 22, 1908.

Application filed April 5, 1907. Serial No. 366,489.

To all whom it may concern:

Be it known that I, WILLIAM A. MCCOLLOUGH, a citizen of the United States of America, and resident of Marshalltown, Marshall county, Iowa, have invented a new and useful Rack for Feeding-Troughs, of which the following is a specification.

The object of this invention is to provide improved means for preventing the entrance of live stock to a feeding trough.

A further object of this invention is to provide improved means for permitting the insertion of the snout or head of an animal to a feeding trough while at the same time the feet and body of the animal are excluded from said trough.

A further object of this invention is to provide means for hinging a rack to a feeding trough whereby said rack may be superposed on the trough or removed therefrom as desired, conveniently and readily.

A further object of this invention is to provide improved means for hinging and latching a rack to a feeding trough whereby said rack is rigidly connected to the trough when superposed thereon.

A further object of this invention is to provide an improved construction for racks for feeding troughs wherein the partition bars of the racks are staggered on opposite sides thereof to avoid face to face meeting of animals feeding therein from opposite sides thereof.

A further object of this invention is to provide a rack for feeding troughs made in sections and separately hinged and latched to a trough whereby a trough of considerable length may be equipped and the racks thereon be readily and conveniently manipulated and adjusted.

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—

Figure 1 is a plan of a complete trough showing a rack formed in two sections mounted thereon in position for practical use. Fig. 2 is a side elevation of the same device. Fig. 3 is an end elevation of the same device, the dotted lines indicating the position assumed by the rack when turned away from the trough.

In the construction of the device as shown, the numeral 10 designates a feeding trough which may be of any desired form, but for

convenience I have shown it rectangular in elevation and plan. A rack is provided and is formed of marginal bars 11, 12 and a median bar 13 between them. Partition bars 14 are rigidly connected at their ends to the marginal bar 11 and the median bar 13 and other partition bars 15 are rigidly connected at their ends to the marginal bar 12 and the median bar. The partition bars 14 and 15 are arranged in staggered relations so that the space between two of the bars 14 is opposed by one of the bars 15 and the reverse. Cross bars 16, 17 connect end portions of the marginal bars 11, 12 and extend across the trough 10 at the ends of the rack sections. The cross bars 16 and 17 each have downturned end portions, whereby said cross bars are of approximate arch or inverted U-shape and straddle the trough, the downturned end portions being secured to each side bar and lying in contact with the outer faces of the side walls of the trough.

The spaces between the partition bars 14 or 15 is sufficient for the introduction of the head of an animal or fowl for the purpose of feeding from the trough but will be so determined in respect of the size and type of animal or fowl using the trough as that the feet and body of the feeder will be excluded from the trough during the operation of eating. Strap hinge members 17', 18 are fixed rigidly to one wall of the trough 10 and end portions 19, 20 of marginal partition bars 15 are extended and curved into circular form to provide hinge members arranged adjacent to and outside of the first hinge members. Hinge pins 21, 22 are mounted loosely in and pivotally connect the hinge members 17', 18 to the hinge members 19, 20. The hinge pins 21, 22 may be removed from the hinge members to permit the rack to be removed from the trough. An angle plate 23 is mounted on the central portion of the front wall of the trough 10 and a bail 24 is pivoted to the central portion of the marginal bar 11 and is adapted to engage with said hinge plate and prevent accidental oscillation of the rack.

In practical use the trough is equipped with one or more of the sections of racks constructed as above described, the number of sections employed being dependent on the length of the sections and the length of the trough. The rack sections are adjusted as shown, crossing and arching above the trough 10 and in such position permit suffi-

cient access of the feeder to the trough for feeding purposes and exclude the remainder of the feeder. When it is desired to have access to the trough for the purpose of cleaning it or for any other purpose manual force is applied to release the bail 24 from the angle plate 23 and lift the forward portion of the rack. This done, the rack articulates on the hinge pins 21, 22 and may be turned into the position shown by dotted lines in Fig. 3 where it is supported by the ground or platform adjacent the trough until replaced manually in the initial position shown.

The rack preferably is made of flat steel bars cut and shaped as desired and riveted together into the form shown but I do not desire to be understood to limit myself to the precise construction herein illustrated and set forth as various modifications may be employed without departing from the spirit of my invention.

I claim as my invention.—

In combination, a rectangular box like feed trough and a skeleton cover hinged to said trough at one side thereof and comprising longitudinal side bars, a longitudinal median bar, spaced partition bars connecting said median bar with each side bar and a straight cross piece connecting said side bars and having downturned end portions secured thereto, said end portions lying in contact with the outer faces of the side walls of the trough, said median bar being disposed above said side bars whereby said cover has an arch shaped cross section.

Signed by me at Des Moines, Iowa, this twenty sixth day of February, 1907.

WILLIAM A. McCOLLOUGH.

Witnesses:

S. C. SWEET,
ALFRED ANDERSON.