

(Model.)

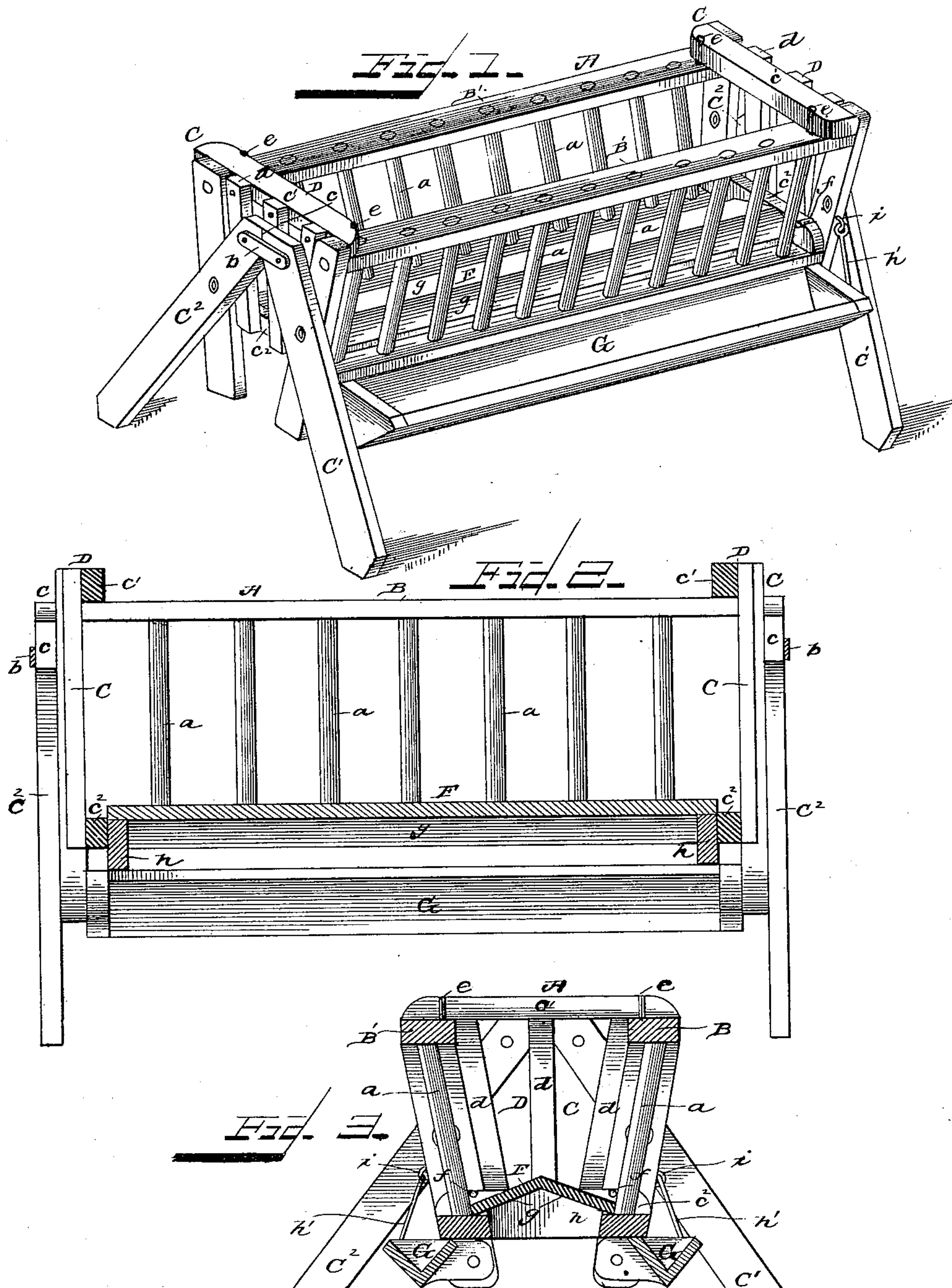
2 Sheets—Sheet 1.

D. PHILLIPS.

SHEEP FEEDING RACK.

No. 335,384.

Patented Feb. 2, 1886.



WITNESSES

INVENTOR

Edw. Washburn
John St. Moore

Denzil Phillips
By his Attorneys
C. Snow & Co

(Model.)

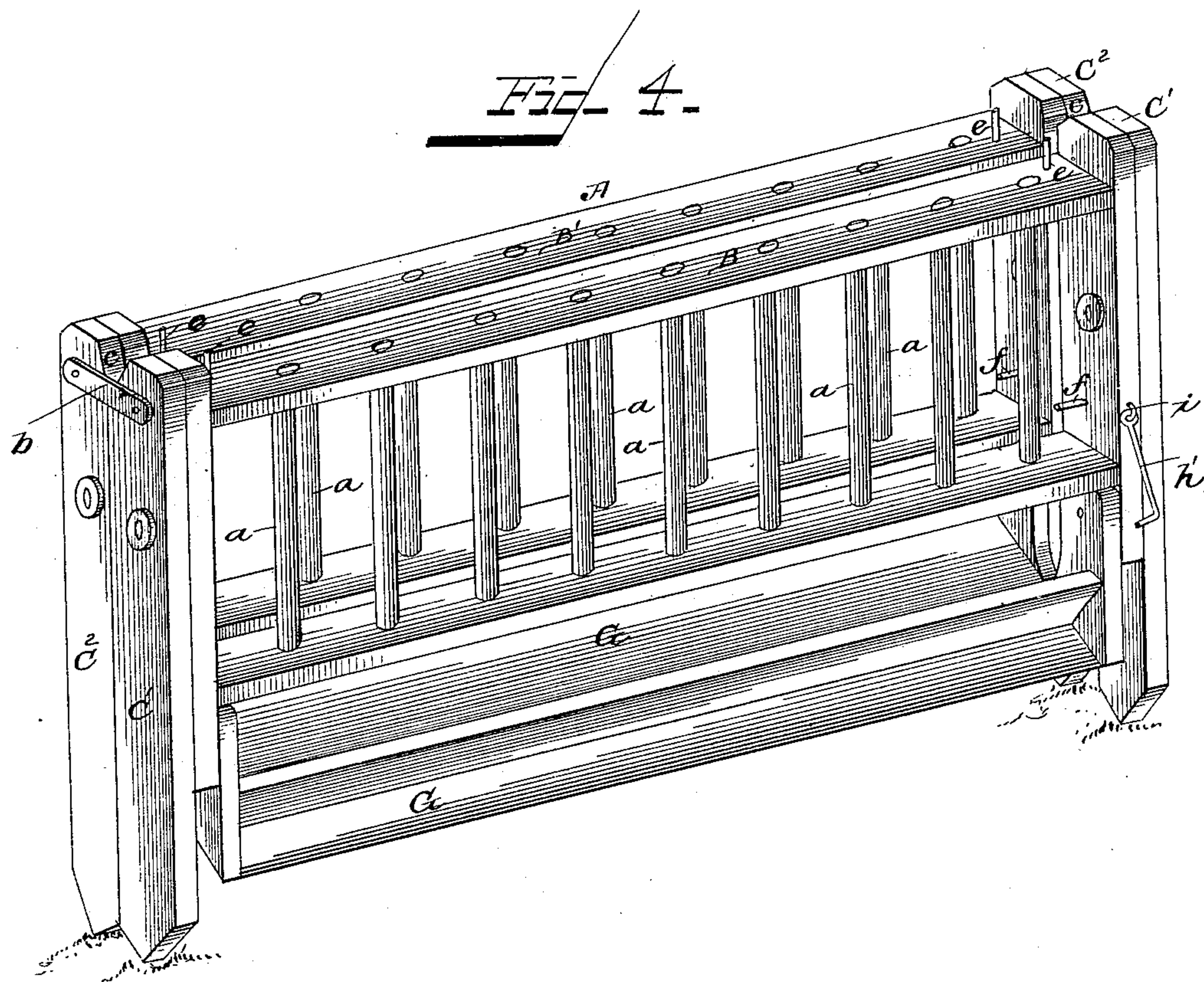
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INVENTOR

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C. Brown & Co.

UNITED STATES PATENT OFFICE.

DENZIL PHILLIPS, OF COCHRANTON, PENNSYLVANIA.

SHEEP-FEEDING RACK.

SPECIFICATION forming part of Letters Patent No. 335,384, dated February 2, 1886.

Application filed March 9, 1885. Serial No. 158,270. (Model.)

To all whom it may concern:

Be it known that I, DENZIL PHILLIPS, a citizen of the United States, residing at Cochran-
ranton, in the county of Crawford and State of
5 Pennsylvania, have invented certain new and
useful Improvements in Sheep-Feeding Racks;
and I do hereby declare the following to be a
full, clear, and exact description of my inven-
tion, such as will enable others skilled in the
10 art to which it appertains to make and use the
same.

My invention relates to an improvement in
sheep-feeding racks, the object being to pro-
vide a device of this character which may be
15 readily and quickly taken apart and folded,
and which will occupy but a minimum amount
of room.

A further object of the invention is to pro-
vide a sheep-feeding rack whereby the animals
20 will be prevented from wasting their feed, as
is done to a large extent in other racks.

With these ends in view the invention con-
sists in the improved construction and combi-
nations of parts hereinafter fully described,
25 and pointed out in the claims.

In the drawings, Figure 1 is a perspective
view of a sheep-feeding rack constructed in
accordance with my invention. Fig. 2 is a
longitudinal vertical section. Fig. 3 is a trans-
30 verse vertical section, and Fig. 4 is a perspec-
tive view showing the device folded.

In the accompanying drawings, in which
like letters of reference indicate correspond-
ing parts in all the figures, A represents the
35 rack, which is constructed as follows:

B B' represent sides, which are each com-
posed of a top and bottom rail, connected by
a series of vertical bars, *a*, arranged a sufficient
distance apart to allow of access to the hay or
40 other feed contained in the rack. Secured to
the ends of the side are end rails, C, the lower
ends of which extend below the bottom rails
of the sides.

C' C² represent supporting-legs, which are
45 pivotally secured to the end rails midway the
top and bottom rails of the sides B B', and
said supporting-legs are pivotally connected
at their upper ends by plates *b*. The upper
ends of the supporting-legs are cut off on their
50 inner sides to form straight faces *c*, which, when

the rack is opened, as in Fig. 1, bear against
each other, and thus prevent the legs from
spreading.

D represents the ends of the rack, which
are removable therefrom, said ends consisting 55
of the top and bottom strips, *c'* *c²*, the top
strip, *c'*, being somewhat longer than the bot-
tom strip, *c²*, said strips being connected by
vertical bars *d*, which converge at their lower
ends, thus holding the sides B B' in an in- 60
clined or converging position when they are
placed between said sides, so that the hay will
be fed to the bottom of the rack, the bottom
strips, *c²*, having notches or cuts on its upper
side, near the ends thereof, which are adapted 65
to be engaged by pins *f*, projecting outwardly
from the end rails, C.

The top strip, *c'*, is provided on its inner
side, near the ends thereof, with vertical cuts
or notches, which are adapted to be engaged 70
by pins *e*, projecting upwardly from the top
rails of the sides B B'. In applying the ends
they are placed between the sides, and the
pins *f* engaged with the notches of the bottom
strip, *c²*, and the notches on the top strip, *c'*, 75
forced into engagement with the pins *e*.

F represents the bottom of the rack, which
is adapted, when placed in position, to bear
against the ends D, and thus hold said ends in
engagement with the pins *e f* until the bottom 80
has been removed, when the ends may also be
removed by pulling the strip *c²* from the pins
f, and then lifting the strip *c'* from the pins *e*.

The bottom F consists of the two strips, *g*,
secured together at their upper ends and di- 85
verging, so that the bottom is of an inverted
extended V shape in cross-section, and secured
between said strips, near their ends, are blocks
h, which fit between the bottom rails of the sides,
the ends of the strips *g* resting on the upper 90
sides of the bottom rails of the sides B B'.

Pivoted at their inner ends between the
lower ends of the end rails, C, are V-shaped
troughs G, the outer ends of which, when the
device is in use, are supported by hooks *h'*, 95
which engage eyes *i* on the ends of the trough.

It will be observed that the seed and finer
particles of hay or other feed that escape be-
tween the bars of the sides B B' will be caught
by the troughs, and thus effect a great saving. 100

To fold the device, the bottom is removed, and then the ends. The troughs are then lowered by detaching the hooks from the eyes, when said troughs will, inasmuch as they are 5 pivoted at their inner ends, swing under the trough. The sides may then be folded together and the supporting-legs fold against each other, as shown in Fig. 4.

Having thus described my invention, I claim—

1. The combination, with the sides, of the supporting-legs pivoted to the end rails thereof, plates pivotally connecting the upper ends of said legs, the removable ends, and the removable bottom, substantially as set forth.

2. The combination, in a feed-rack, with the folding sides, supporting-legs pivoted to the end rails thereof, and plates pivotally connecting the supporting-legs at the upper ends 10 thereof, of the removable ends and bottom, and the pivoted or hinged troughs arranged along the sides of the rack and adapted to be supported in a horizontal position, substantially as set forth.

3. The combination, with the sides having the extended end rails, and the troughs pivoted between the same, of the supporting-legs pivoted to said rails and pivotally connected at their upper ends by metal plates, and the 15 removable ends and bottom, substantially as set forth.

4. In a feed-rack, the combination, with the sides, of removable ends located between the same, and a trough resting on the sides and bearing against the inner sides of the ends to 35 hold the same in place, as set forth.

5. In a feed-rack, the combination, with the sides having upwardly-projecting pins on their top rails and inwardly-extending pins on their end rails, of the ends consisting of the 40 top and bottom strips connected by bars, said top and bottom strips being provided with notches to engage the pins, and a bottom, as set forth.

6. The combination, in a feed-rack, with 45 the sides, of the inverted-V-shaped trough supported upon the lower rails of the same, downwardly-extending blocks *h* at the ends of the trough, and the removable ends, substantially as set forth.

7. The combination, with the sides and the pivoted supporting-legs pivotally connected at their upper ends by metal plates, of the removable inverted-V-shaped trough, the pins 50 *e f*, and the removable ends having notches to engage the same, substantially as set forth.

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

DENZIL PHILLIPS.

Witnesses:

GEO. W. ADAMS,
L. BARR.