

(No Model.)

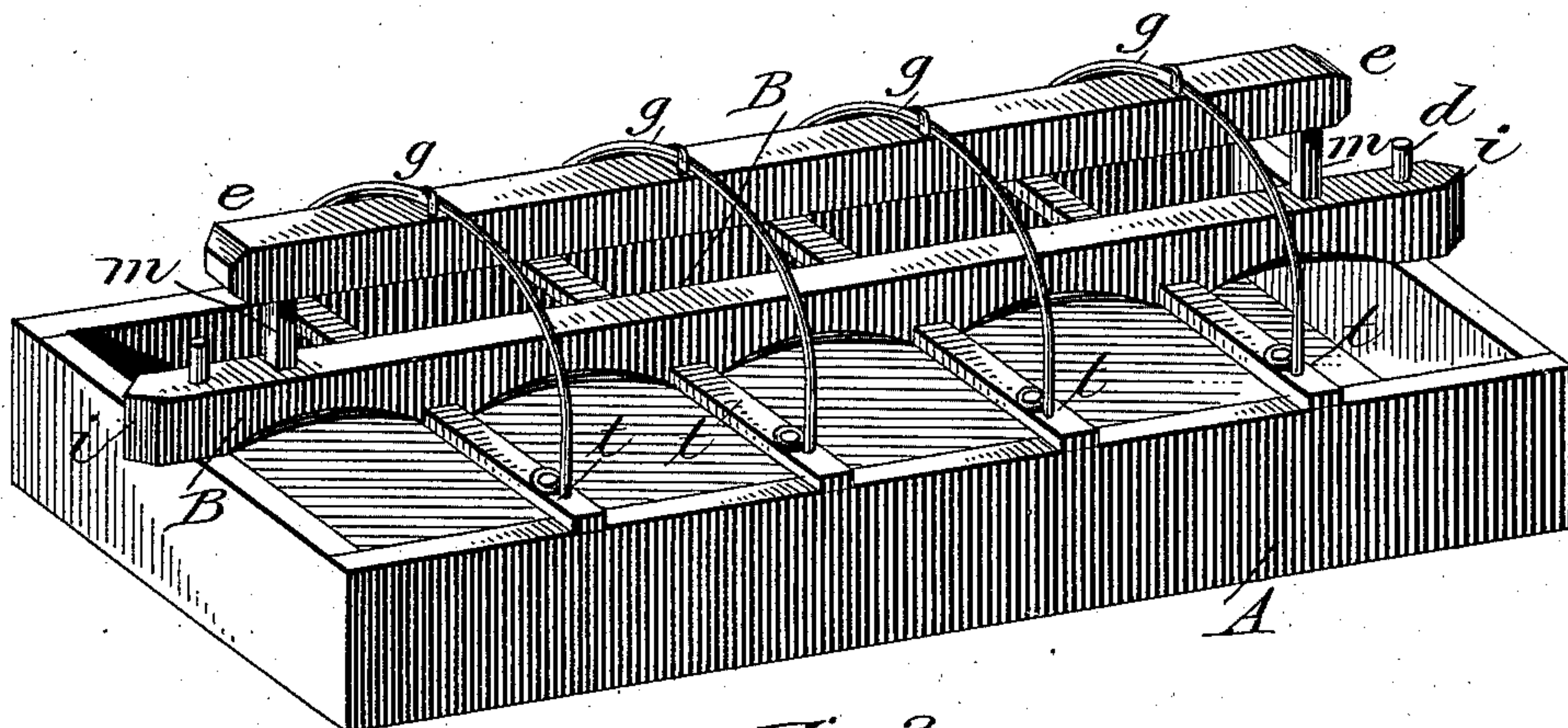
S. CORDERMAN.

HOG TROUGH.

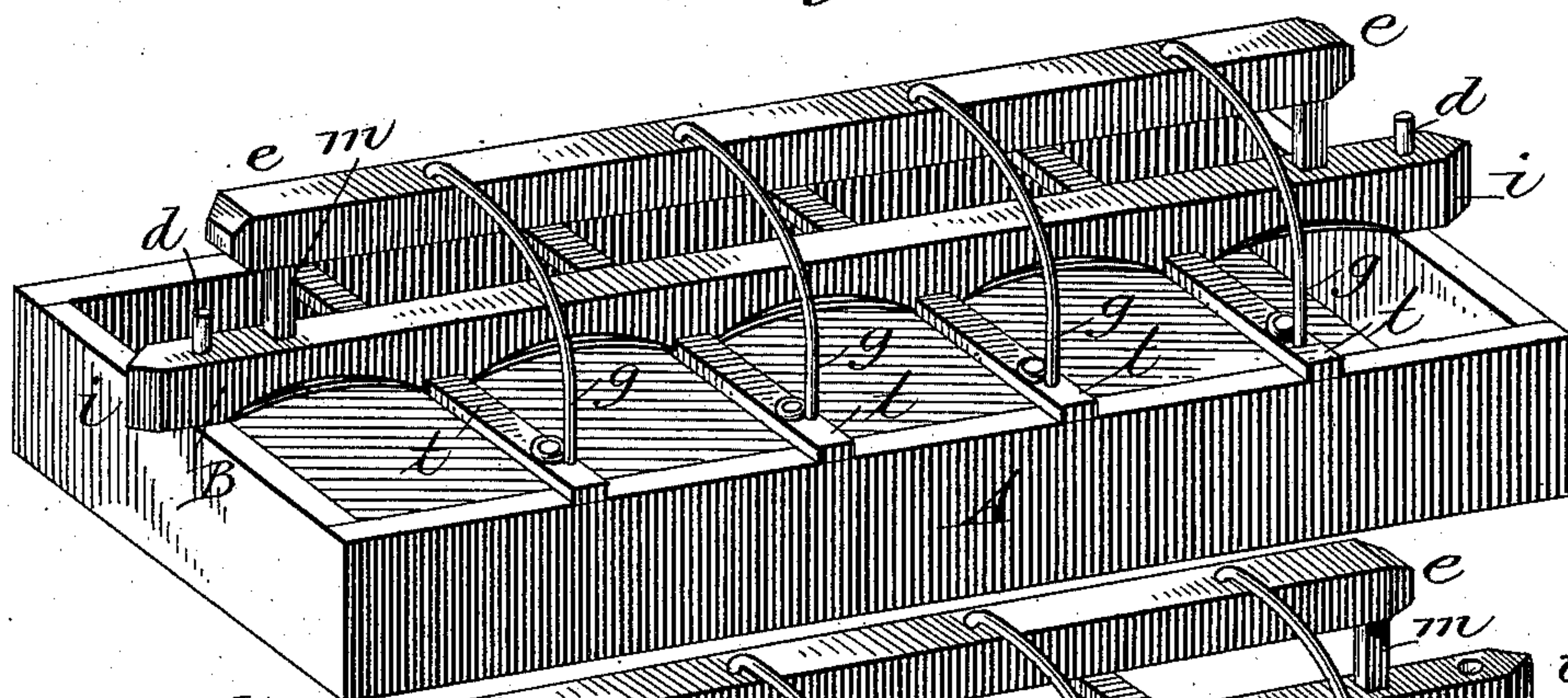
No. 378,434.

Patented Feb. 28, 1888.

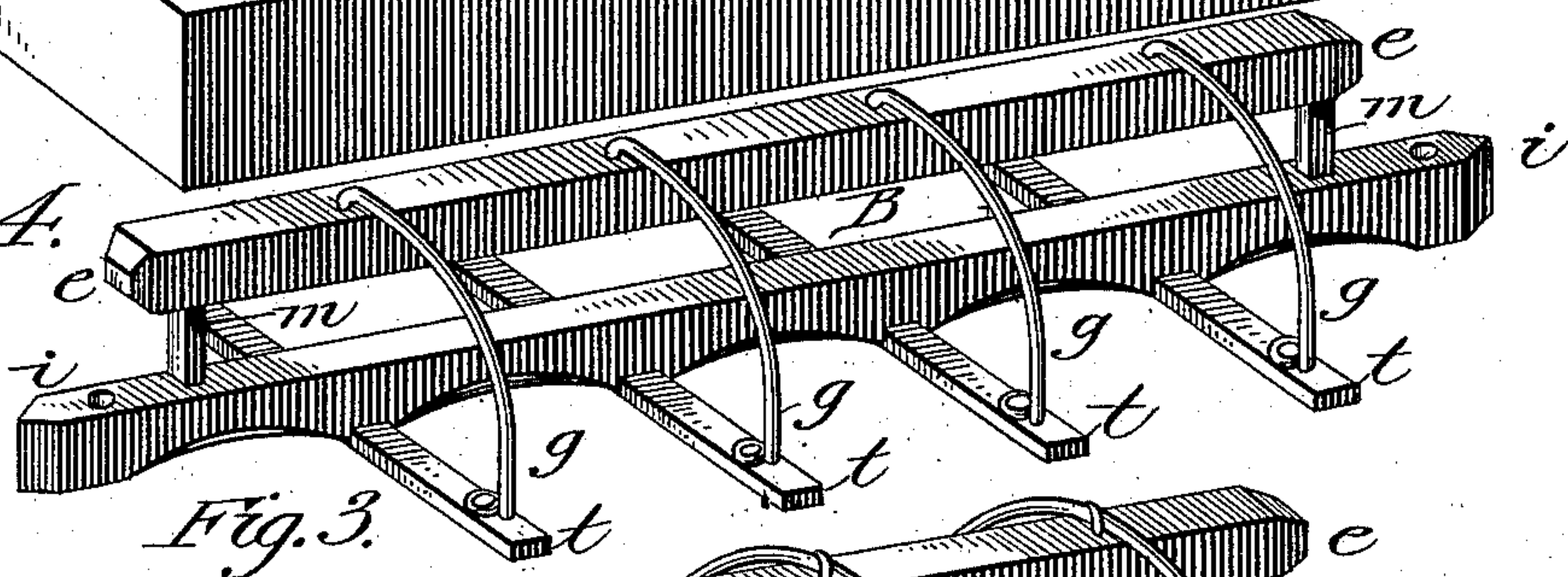
*Fig. 1.*



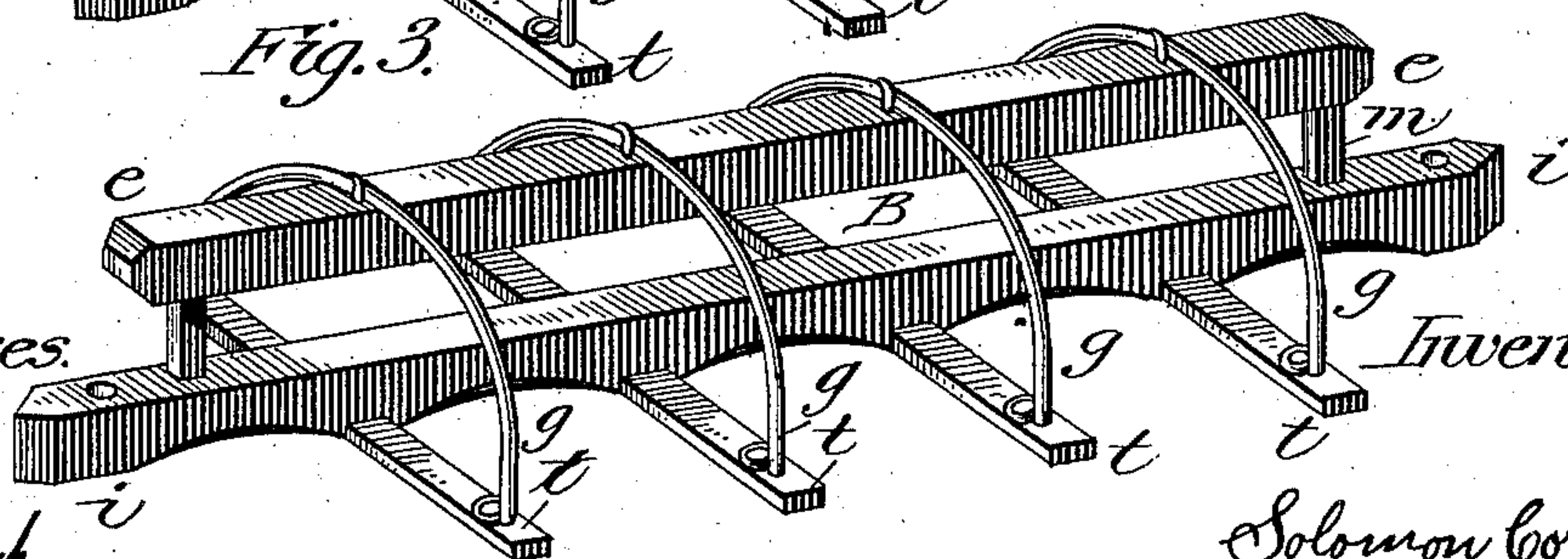
*Fig. 2.*



*Fig. 4.*



*Fig. 3.*



*Witnesses.*

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# UNITED STATES PATENT OFFICE.

SOLOMON CORDERMAN, OF WAVELAND, IOWA.

## HOG-TROUGH.

SPECIFICATION forming part of Letters Patent No. 378,434, dated February 28, 1888.

Application filed August 22, 1887. Serial No. 247,627. (No model.)

*To all whom it may concern:*

Be it known that I, SOLOMON CORDERMAN, a citizen of the United States, residing at Waveland township, in the county of Pottawattamie and State of Iowa, have invented a new and useful Improvement in Hog-Troughs, of which the following is a specification, reference being had to the accompanying drawings, in which—

10 Figure 1 is a perspective view of a hog-trough having my improved guard attached thereto; Fig. 2, a modification of the same; Fig. 3, a perspective view of the guard shown in Fig. 1 removed from the trough, and Fig. 15 4 a like view of the guard shown in Fig. 2.

Similar letters refer to similar parts throughout the several figures.

A is a trough of usual construction.

20 B is the guard-frame, and consists of the lower rail, *i*, having perforations in its ends, and the upper rail, *e*, connected to the lower rail by the uprights or pins *m m*.

*t t* are cross-bars secured to the lower rail, and *g g* are bows or protectors secured to the 25 cross-bars and upper rail, as hereinafter set forth.

30 The guard illustrated in Fig. 1 consists of the frame B, having cross-bars *t*, firmly secured at their middle to the lower rail, *i*, of the frame, and bows or protectors *g*, secured at their ends to the cross-bars and at their middle, by means of a staple, to the top rail, *e*.

35 The guard illustrated in Fig. 2 consists of the frame B, with cross-bars *t*, firmly secured at one end to the lower rail, *i*, and bows or protectors *g*, secured at one end to the upper rail, *e*, and at the other end to the cross-bars *t*.

40 The vessel A is an ordinary oblong feed-trough provided with pins *d*, extending upward from each end thereof.

The vessel shown in Fig. 1 is made wider than that illustrated in Fig. 2. The lower rail, *i*, extends the entire length of the vessel, and is secured to the same by the pins *d d*, which pass loosely through apertures in the 45 ends of the rails. The cross-bars *t* and protectors *g* are placed a suitable distance apart to allow the head of a hog to pass readily between them.

It is evident that the guard will prevent the 50 hogs from crowding each other while eating and drinking, also prevent them from getting into the vessel. The guard can be easily detached from the vessel by removing the frame from the pins *d d*, and when so removed the 55 vessel can be readily cleaned.

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

1. A feed-trough guard consisting of the 60 frame B, composed of the lower rail, *i*, and upper rail, *e*, connected by uprights or pins *m*, cross-bars *t*, secured to the lower rail, and bows or protectors secured to the cross-bars and upper rail, substantially as described. 65

2. The combination, with a feed-trough provided with pins in its ends, of a guard consisting of a lower rail having apertures in its ends, in which the pins of the trough fit, an upper rail connected to the lower rail by up- 70 rights or pins, cross-bars secured to the lower rail, and bows or protectors secured to the cross-bars and upper rail, substantially as described.

SOLOMON CORDERMAN.

Witnesses:

DORSEY MCGREW,  
JAMES PUGH.