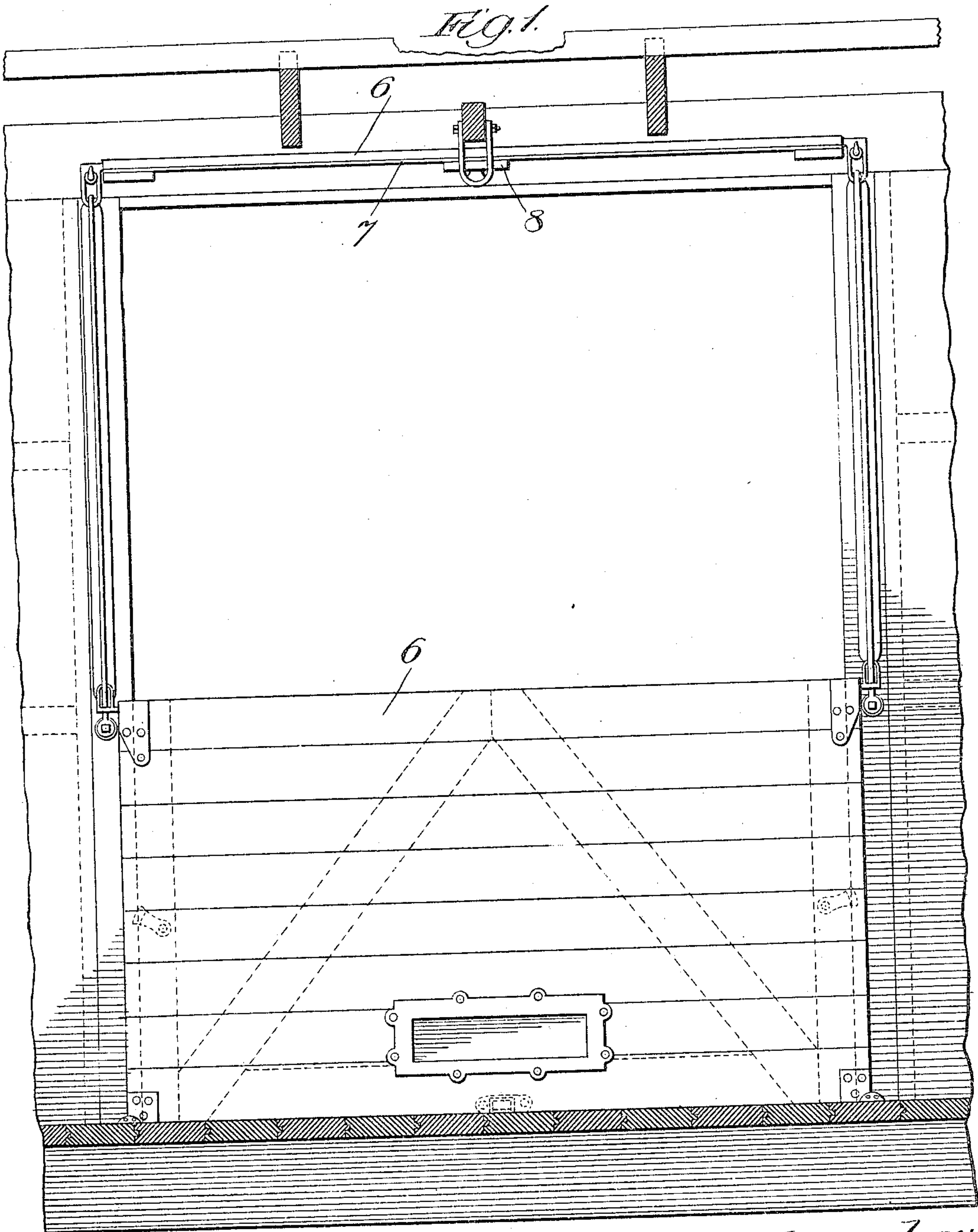


No. 822,458.

PATENTED JUNE 5, 1906.

T. LENNOX.  
GRAIN DOOR FOR CARS.  
APPLICATION FILED SEPT. 26, 1904.

2 SHEETS—SHEET 1.



Witnesses:

Paul Carpenter  
M. J. Caldwell

Inventor:

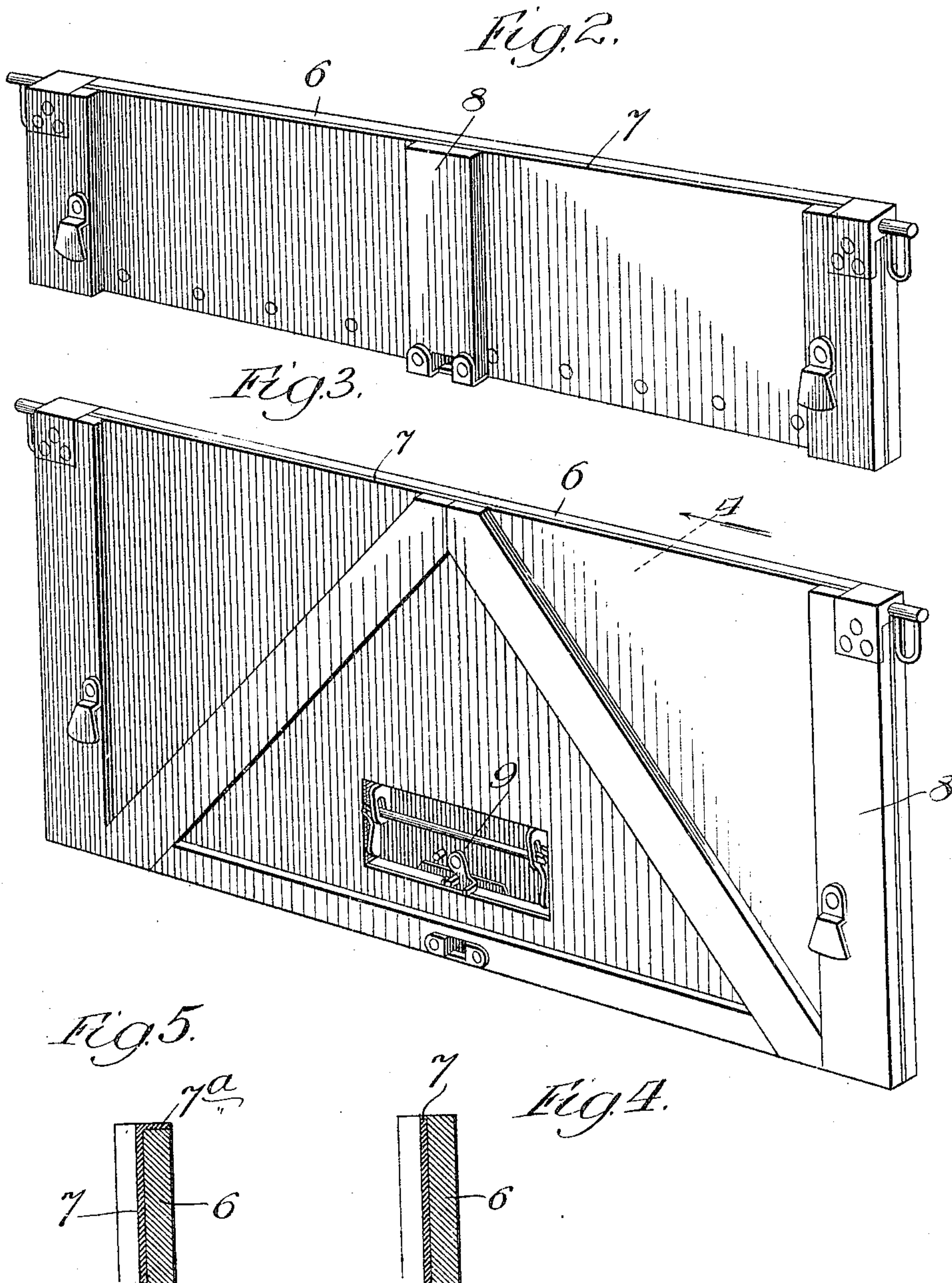
Talbot Lennox  
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2 SHEETS—SHEET 2.



Witnesses:  
Rue Carpenter  
M. B. Caldwell

Inventor:  
Talbot Lennox  
by atty Paul Symmestredt



# UNITED STATES PATENT OFFICE.

TALBOT LENNOX, OF CHICAGO, ILLINOIS.

## GRAIN-DOOR FOR CARS.

No. 822,458.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed September 26, 1904. Serial No. 225,871.

*To all whom it may concern:*

Be it known that I, TALBOT LENNOX, a citizen of the United States, residing at Chicago, county of Cook, State of Illinois, have  
5 invented certain new and useful Improvements in Grain-Doors for Cars, of which the following is a specification.

This invention has reference to an improved form of grain-door for cars or other  
10 like uses, and has for its principal object the provision of means whereby it is rendered impossible for the wooden portions of the door to be broken out either for the purpose of enabling some loader in the country to put  
15 the grain in where it is not intended to be put in, or for other purposes, and also close all joints tightly, thus preventing loss of grain, and to strengthen and improve the door construction in various other respects.

20 A further object of the invention is a provision of a grain-door which has a supporting frame preferably of wood provided with a protective armor and strengthening part constructed of metal, such as sheet-iron or  
25 steel, the same being combined with suitable brace devices for holding the several parts together in a stable manner.

The above as well as such other objects as may hereinafter appear, I attain by means of  
30 a construction which I have illustrated in preferred form in the accompanying drawings, wherein—

Figure 1 is a view of a grain-door made in accordance with my improvements, the said  
35 view being taken from the inside of the car;

Figure 2 is a perspective view of the upper part of the door;

Figure 3 is a like view of the lower portion of the door;

40 Figure 4 is a section taken on the line (4) of Figure 3, and

Figure 5 shows a modification of the sheet-metal armor employed as indicated in Figure 4.

45 From examination of the several figures above referred to it will be observed that in carrying out my invention I provide first an inner framework 6 preferably composed of wooden boards or bars, arranged as indicated in Figure 1, the said wooden frame-  
50 work 6 being covered upon the outside with a

protective sheathing or armor 7 preferably of sheet metal, the said armor being in the preferred construction made of sufficient dimension to cover the entire wooden portion  
55 inside the same as indicated in the drawings, and there being placed upon the outside of the armor or protective covering some exterior strengthening braces 8, as indicated in Figure 3. The small preliminary discharge  
60 door indicated at 9 is provided for by an opening formed in the armor or protected covering, as shown, and outside of such opening practically the entire space of the door is covered by such protective covering.  
65

From Figures 2 and 3, showing as stated perspective views, which it is to be observed are taken from the outside or exterior of the doors, it is evident that both the upper and the lower sections of the doors are of like construction, there being in each case the main  
70 body or framework 6 the protective covering 7 and the outside strengthening braces 8.

In order to make a more durable upper edge of the lower portion of the door I can  
75 arrange the protective covering 7 as indicated in Figure 5, in which the upper edge thereof is turned over as shown at 7<sup>a</sup> in said Figure 5, so as to shield the upper edge of the inner wooden framework.  
80

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

1. A grain-door for cars comprising a frame-work of wood, a protective covering  
85 upon the outside of said wooden framework, said protective covering being bent over to shield the upper edge of the wooden frame and strengthening braces secured over the protective covering, substantially as de-  
90 scribed.

2. A grain-door for cars comprising an inside continuous framework an outside skeleton framework and an interposed protective sheathing.  
95

In testimony whereof I have hereunder signed my name in the presence of the two subscribed witnesses.

TALBOT LENNOX.

Witnesses:

PAUL CARPENTER,  
ALBERT G. MILLER.