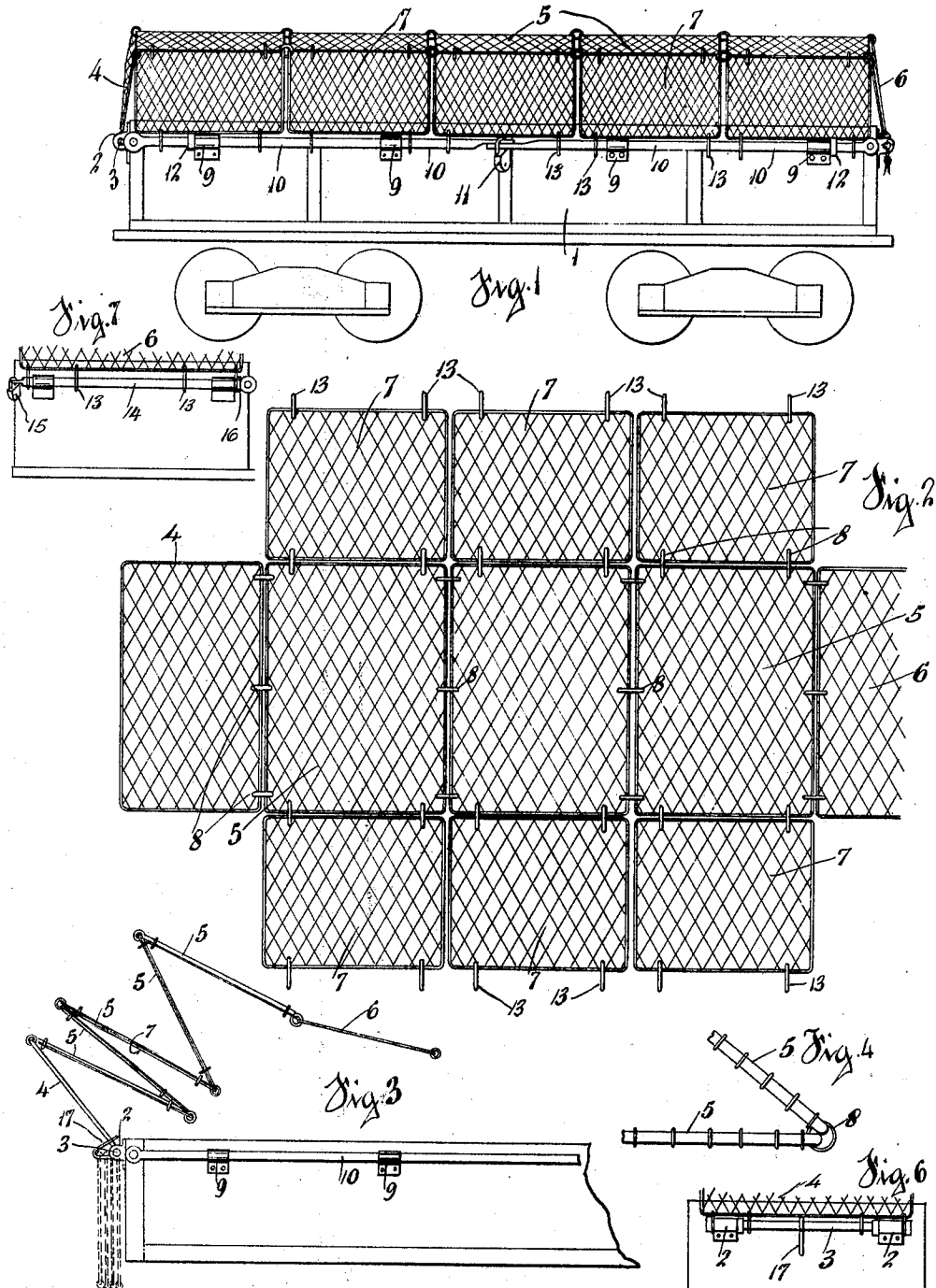


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 SCREEN FOR COAL CARS.
 APPLICATION FILED MAY 18, 1912.

1,036,849.

Patented Aug. 27, 1912.



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SCREEN FOR COAL-CARS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE HUETTEL, a citizen of the United States, and a resident of Wofford, in the county of Whitley and State of Kentucky, have invented a new and useful Screen for Coal-Cars, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to a screen to be used in the shipment of coal in cars of the type generally known as gondola cars. In the transportation of coal in cars of this type, especially in certain localities, large quantities of coal are stolen, by reason of the fact that the cars are open and unprotected at the top. To overcome this difficulty, it has heretofore been necessary to ship the coal in box cars, in which the contents can be properly protected from marauders. Such cars, are however, generally unsuited to the transportation of coal, and the gondola is a much preferable type of car for this purpose where the contents can be properly protected. To afford this protection by means of a screen which shall not be in the way when loading or unloading the car, and which shall be durable and inexpensive in construction, is the object of my invention.

In the drawings: Figure 1 is an elevation showing my screen applied to a car of the type mentioned; Fig. 2 is a plan showing the screen only, the several sections thereof being spread apart; Fig. 3 is an elevation showing the manner in which the screen is folded back at one end of the car; Fig. 4 is a detail showing the manner of hinging the sections together; Fig. 5 is a detail of one of the locking bars; Fig. 6 is an elevation of the end to which the screen is permanently attached; Fig. 7 is an elevation of the other end of the car.

The numeral 1 indicates the body of a car of the gondola type. Attached to one end of the car, near the top, is a pair of brackets 2, in which a bar 3 is permanently journaled. Attached permanently to the said bar is the end section 4 of the screen; said section being substantially of the width of the car. Attached to the section 4 is a series of sections 5, the width of each being the same as the width of section 4, and the combined length of said sections 5 being substantially equal to the length of the car. Individually, each of the sections 5 is of a

length suitable for folding all of the sections together as shown in Fig. 3. Attached to the free end of the last of the series of sections 5, is an end section 6, similar to section 4. To the sides of sections 5, side sections 7 are attached. All of the above sections, 4, 5, 6 and 7 are constructed in the same manner; each comprising a heavy metal frame, in which is a substantial wire netting of any desired strength. The sections 4, 5, 6 and 7 are attached, or hinged together, by heavy metal rings 8, as shown in Figs. 2 and 4, the sections 5, however, being hinged only to the sections 6, and no two sections 7 being hinged together. It will thus be seen that the combined sections will form a screen having end sections 4 and 6, adapted to fit down over the ends of the car, a top, composed of sections 5, and sides composed of sections 7, which fold downwardly over the sides of the car. It will also be seen that, when not in position for use as shown in Fig. 1, the several sections may be folded together and placed in the position shown in dotted lines in Fig. 3, by folding under the sections 7 and doubling together the sections 5 as shown in black lines in Fig. 3.

Along each side of the car is a series of perforated brackets 9, in which bars 10 are adapted to slide. Each of the bars 10 is substantially equal to one half of the length of the car, and an end of each is flattened, as shown in Fig. 1, so that when inserted in the brackets 9, the ends of the bars may overlap. In each of the overlapping ends is a perforation to receive a padlock or seal 11 to lock together said bars. On each of the bars 10 is a collar 12, which, when the bars are locked together, abut against the outer sides of the end brackets 9 to prevent the locked bars from sliding in either direction. Attached to the free ends of sections 7 are loops 13, through which the bars 10 are inserted when the screen is in position for use. Thus, as will be seen, when the bars 10 are locked together and are prevented from being moved in any direction as above set forth, the side sections 7 will be locked to the sides of the car. The end section 6 is also provided with loops 13 on its free end, said loops being adapted to engage a bar 14 inserted in brackets 9 on the end of the car. One end of bar 14 is perforated to receive a padlock 15 by means of which said bar is fixedly secured

in said brackets, the opposite end of the bar having a collar 16 which abuts against the outer side of a bracket 9 when the bar is inserted. It will thus be seen that the end

5 section 4, being permanently secured to the bar 3, which is permanently journaled at one end of the car, the end section 6 being locked and fixedly secured at the other end of the car, and the side sections 7 being
10 locked to the sides of the car, the whole will present a screen securely attached to the top of the car and entirely covering the same.

To remove the screen, it is only necessary
15 to unlock the padlocks or seals 11 and 15 and withdraw the bars 10 and 14, when the several sections of the screen may be folded together as hereinabove set forth, and placed at one end of the car. When so
20 placed, a hook 17, mounted on the bar 3 is placed in engagement with the upper edge of the outermost section, thus securing the folded sections together.

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

1. In combination with a car of the character specified, a screen comprising top, side
30 and end sections, said sections being adapted to fold together at one end of said car, and

to serve, when unfolded, as a cover for said car, and means whereby said screen may be secured, when unfolded, to said car to protect the contents thereof.

2. In combination with a car of the character specified, a screen comprising a series
35 of sections, each of said sections being composed of a frame and a reticulated part in said frame, said sections being adapted to fold together at one end of said car, and to
40 serve, when unfolded, as a cover for said car, and means whereby said screen may be secured, when unfolded, to said car to protect the contents thereof.

3. In combination with a car of the character specified, a screen comprising a series
45 of sections, said sections being adapted to fold together at one end of said car, and to serve, when unfolded, as a cover for said car, bars slidably mounted on the sides and
50 other end of said car, and means whereby said bars are adapted to engage said sections to secure said screen to said car to protect the contents thereof.

In testimony whereof, I have hereunto set
55 my name this 8 day of May, 1912.

GEORGE HUETTEL.

Witnesses:

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L. O. SMITH.