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H. M. NESMITH

PROTECTOR FOR THE STEEL SIDE SILLS OF FREIGHT CARS

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Fig. 1.

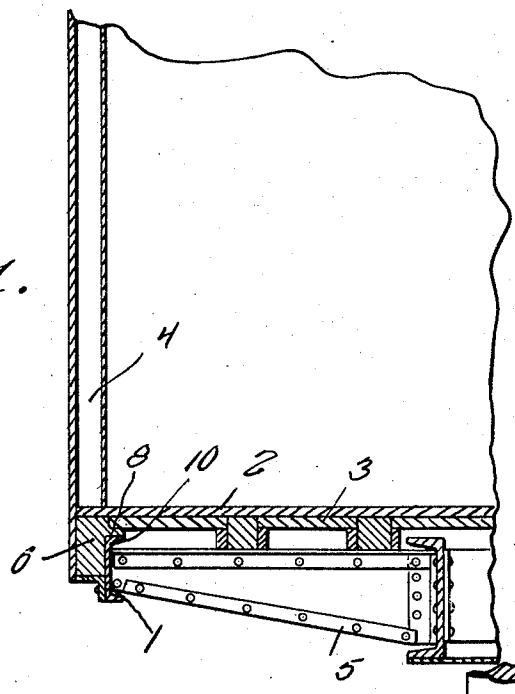
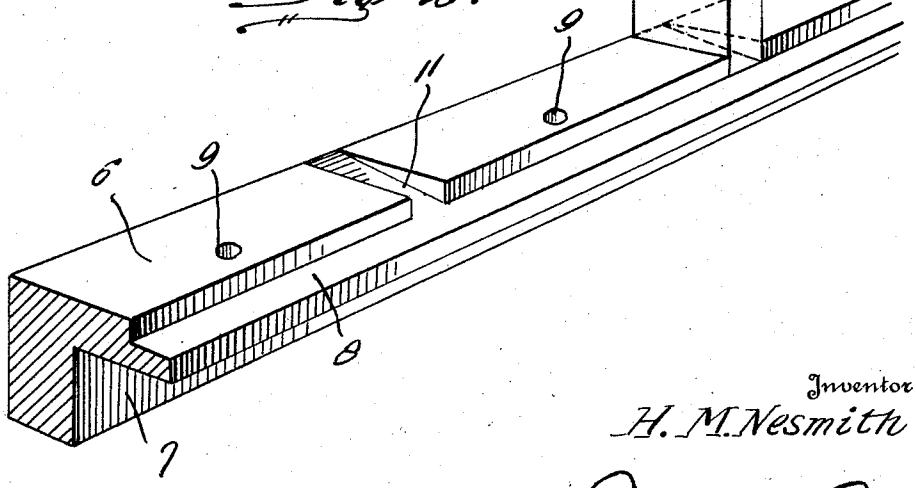


Fig. 2.



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PROTECTOR FOR THE STEEL SIDE SILLS OF FREIGHT CARS.

Application filed January 15, 1925. Serial No. 2,577.

To all whom it may concern:

Be it known that I, HENRY M. NESMITH, a citizen of the United States, residing at Waycross, in the county of Ware and State of Georgia, have invented certain new and useful Improvements in Protectors for the Steel Side Sills of Freight Cars, of which the following is a specification.

This invention relates to a highly novel means for protecting the usual steel side sills of the steel frame of a box car, the device further providing a reinforcement for the steel side sill.

One of the important objects of the present invention is to provide a protector of the above mentioned character which is associated with the steel side sills in such a manner as to prevent the rusting as well as deteriorating of the steel side sill, such as ordinarily results, due to the leakage of the fluid contents of the box car and as a result involves considerable loss and expenditure in repairing the steel side sills.

Another important object of the invention is to provide a device of the above mentioned character, wherein the same is of such construction as to permit the protector to be readily and easily secured in position, with respect to the usual steel side sill, the protector being provided with means for receiving the lower ends of the usual side posts of the frame of the car as well as the sub-flooring.

A still further object is to provide a device of the above mentioned character, which is simple in construction, inexpensive, strong and durable, and further well adapted for the purpose for which it is designated.

Other objects and advantages of the invention will become apparent during the course of the following detailed description.

In the accompanying drawing, forming a part of this specification:

Figure 1 is a transverse sectional view, through a portion of a freight car, showing my invention in position thereon, and

Figure 2 is a detail perspective view of the wooden protector sill showing the manner in which one of the side posts has its lower end supported in the socket provided therefor.

In the drawing, wherein for the purpose of illustration is shown the preferred embodiment of my invention, the usual steel side sill of a steel frame box or freight car is illustrated at 1, the flooring and sub-flooring of the car is indicated at 2 and 3 respectively. The usual side posts of the car are supported thereon in the manner well known in the art, and one of these posts is illustrated at 4. The usual cross bracing means for the steel side sill 1 is indicated generally at 5.

For the purpose of protecting and reinforcing the steel side sill 1, I provide the wooden sills generally designated by the numeral 6. The same may be either of the full length of the steel side sill, or may be constructed in sections, and I do not wish to limit myself to the particular manner in which the wooden sill is to be associated with the steel side sill.

The inner side of the wooden protector 6 is cut away, as illustrated at 7, and the laterally extending flange 8 is formed on the inner face of the upper portion of the sill as clearly illustrated in Figure 2. This construction enables the wooden protector sill 6 to be disposed adjacent the outer face of the upper portion of the steel sill 1, and the flange 8 will be disposed over the upper flange of the steel sill, in the manner as clearly illustrated in Figure 1. Usually the steel sills are of channel iron construction. The wooden sill is further provided with a series of spaced openings 9, through which extend the fastening bolts of any suitable construction, it being understood, of course, that the openings 9 are adapted to register with similar openings provided in the upper flange 10 of the steel sill 1. The upper face of the flange 8 provides a means for supporting the outer end of the sections comprising the sub-flooring 3, as also clearly illustrated in Figure 1. The top of the wooden sill 6 is provided with the transversely extending grooves or sockets 11, the same tapering downwardly from the outer face of the wooden sill to the inner face thereof. The purpose of these grooves or sockets is to provide a means for receiving the lower tapered ends of the side posts 4, as illustrated in Figure 2.

The provision of the wooden protector sill will prevent the steel side sill from rusting or becoming deteriorated, due to any leakage of the liquid contents carried in the car. Furthermore, the wooden sill will prevent the outward bulging of the side sill, which ordinarily causes the siding to break loose, and as a result will cause the door of

the freight car to side swipe any passing car. The simplicity with which my device is constructed enables the same to be readily and easily installed and will, at all times, be positive and efficient in carrying out the purpose for which the same is designated.

While I have shown the preferred embodiment of my invention, it is to be understood that various changes in the size, shape and arrangement of parts may be resorted to, without departing from the spirit of the invention and the scope of the appended claims.

Having thus described my invention, what I claim as new is:

1. In combination with a freight car wherein the same includes a steel side sill, sub-flooring, and a side post, of a wooden protector sill secured to the outer face of said steel side sill, and a laterally extending flange formed on the upper portion of the wooden sill on the inner face thereof, the same being disposed above the top of the steel side sill, for receiving the end of the sub-flooring.

2. In combination with a freight car wherein the same includes a steel side sill, sub-flooring, and a side post, of a wooden protector sill secured to the outer face of said steel side sill, a laterally extending flange formed on the upper portion of the wooden sill on the inner face thereof, the same being disposed above the top of the steel side sill for receiving the end of the sub-flooring, the top of the wooden protector sill being provided with transversely extending sockets for receiving the lower ends of the side posts.

In testimony whereof I affix my signature.

HENRY M. NESMITH.