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A. H. SISSON.

PASSENGER CAR CONSTRUCTION.

APPLICATION FILED NOV. 15, 1906.

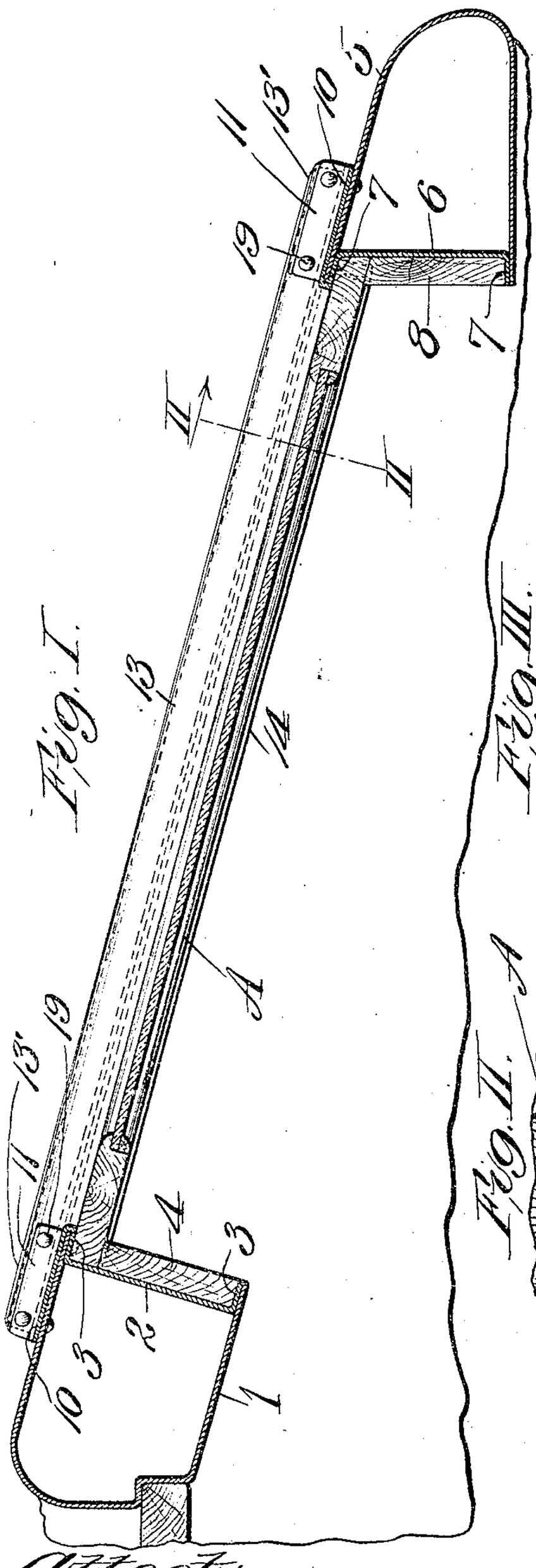

Fig. I.

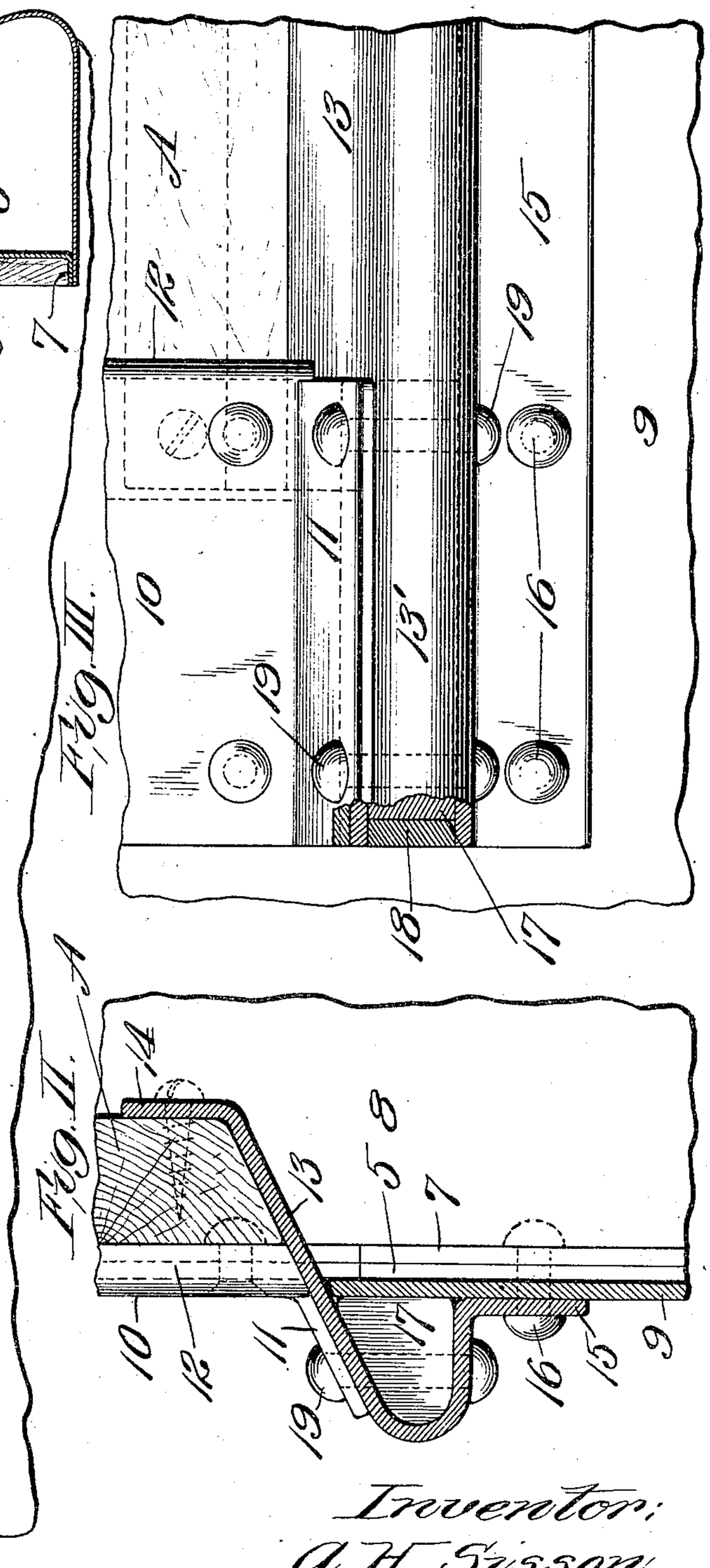

Fig. III.

Fig. II.

Attest:
W. N. Fenton
Blanche Hogan.

Inventor:
A. H. Sisson,
by E. W. Knight
Atty.

UNITED STATES PATENT OFFICE.

ALBERT H. SISSON, OF ST. LOUIS, MISSOURI, ASSIGNOR TO ST. LOUIS CAR COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION.

PASSENGER-CAR CONSTRUCTION.

No. 859,017. Specification of Letters Patent. Patented July 2, 1907.

Application filed November 15, 1906. Serial No. 343,492.

To all whom it may concern:

Be it known that I, ALBERT H. SISSON, a citizen of the United States of America, residing in the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Passenger-Car Constructions, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to that description of passenger car constructions in which the main portions of the car are constructed of metal instead of wood, for the purpose of securing rigidity and strength in the parts with the least weight, the present improvement having particular reference to the sash seat members or rest members by which the immovable side sashes of the car vestibule are supported.

Figure I is a view partly in plan and partly in horizontal section of a portion of a car vestibule to which my invention appertains. Fig. II is an enlarged vertical cross section taken on line II—II, Fig. I. Fig. III is an enlarged elevation of a portion of the vestibule.

1 designates one of the members of one of the center posts of a passenger car vestibule, the said member being of pressed steel and of approximately U-shape in cross section.

2 is a pressed steel stiffener plate that is seated between the wings of the main member 1 and provided with outwardly extending flanges 3, one of which, namely that located at the exterior side of the center post, is adapted to serve as a stop for the vestibule window sash A.

4 is a stop strip, preferably of wood, that is positioned between the outer flange of the stiffener plate 2 and the facing side of the sash A.

5 designates the main member of a vestibule corner post, which is of pressed steel and of approximately U-shape in cross section and the wings of which extend in a direction toward the center post previously described.

6 is a pressed steel stiffener plate located between the wings of the corner post main member and provided with flanges 7. The stiffener plate 6 is complementary to the stiffener plate 2 of the center post and its outer flange receives the sash A which is confined between said flange and the stop strip 8, preferably of wood, and which is complementary to the stop strip 4 associated with the center post.

9 is a metallic sheathing attached to the center post and corner post and extending upwardly to a point adjacent to the window opening that receives the sash A.

10 designates cap plates that are secured to the center and corner posts alongside of the window opening and each of which is provided at its lower end with an outwardly projecting flange 11 and at its side next to the window opening with an inturned flange 12.

13 designates a sash rest of pressed steel that serves to support the vestibule sash A. This sash rest is formed with a vertical wing 14 located at its upper end to which the sash seated upon the rest, as seen most clearly in Fig. II, is attached by any suitable means, such as screws. From the wing 14 the sash rest extends downwardly beneath the sash and outwardly between the vestibule center post and corner post, preferably in an inclined direction, and then inwardly to the sheathing plate 9 and terminates in a vertical flange 15 that is connected to the sheathing plate by rivets 16 or other suitable means of fastening.

The sash rest is provided at its ends with extensions 13′ that project from the body of the rest at points exterior of the vestibule posts and overlap onto the posts, as seen most clearly in Fig. I. These extensions are of hollow form due to the formation of the outer portion of the sash rest 13.

17 are filler blocks, preferably of metal, which are seated in the hollow extensions and 18 are end blocks that are set into the ends of the extensions (see Fig. III), the filler blocks being preferably of malleable iron and the end blocks being preferably of a softer metal which may be more readily dressed to afford a smooth finish at the ends of the sash rest extensions. The flanges at the bottoms of the cap plates 10 project over the sash rest extensions and said flanges, extensions and the filler blocks within the extensions are provided with perforations adapted to receive rivets 19, bolts or other suitable means of fastening that are passed through these members to connect them rigidly to each other in order that the cap plates 10 may serve as supporting members for the sash rests.

I claim:—

1. In a car construction, the combination of a pair of vestibule posts, a sash fitted to said posts, a rest for supporting said sash associated with said posts, rest supporting means attached to said posts, and filler blocks located within said rest, substantially as set forth.

2. In a car construction, the combination of a pair of vestibule posts, a sash fitted to said posts, a sash rest associated with said posts and provided with extensions overlapping said posts, and means supported by said posts having connection with said sash rest, substantially as set forth.

3. In a car construction, the combination of a pair of vestibule posts, a sash fitted to said posts, a sash rest associated with said posts and having extensions overlapping said posts, filler blocks located in said extensions, and means supported by said posts having connection with said sash rest for supporting it, substantially as set forth.

4. In a car construction, the combination of a pair of vestibule posts, a sash fitted to said posts, a sash rest associated with said posts, and provided with extensions

overlapping said posts, plates fitted to said posts and having flanges projecting onto the extensions of said sash rest, and means of connection between said flanges and said extensions, substantially as set forth.

5. In a car construction, the combination of a pair of vestibule posts, a sash fitted to said posts, a sash rest associated with said posts and having hollow extensions overlapping said posts, filler blocks located in said extensions, plates secured to said posts and having flanges projecting onto said extensions, and means of connection between said flanges and said extensions through said flanges, extensions and filler blocks, substantially as set forth.

6. In a car construction, the combination of a pair of vestibule posts, a sheathing plate secured to said posts, a sash fitted to said posts, a sash rest secured to said sheathing plate and having a flange at its upper end fitted to said sash and extensions at its ends overlapping said posts, and plates attached to said posts and having flanges at their lower ends secured to said sash rest extensions, substantially as set forth.

7. In a car construction, the combination of a pair of vestibule posts, a sheathing plate secured to said posts, a sash fitted to said posts, a sash rest secured to said sheathing plate and having a flange at its upper end fitted to said sash and hollow extensions at its ends overlapping said posts, filler blocks in said extensions, and plates attached to said posts and having flanges at their lower ends secured to said sash rest extensions, substantially as set forth.

ALBERT H. SISSON.

In presence of—
A. DIEKMANN,
H. J. MURPHY.