E. G. BUDD.

ARM REST.

APPLICATION FILED SEPT. 6, 1906.

900,702.

Patented Oct. 13, 1908.

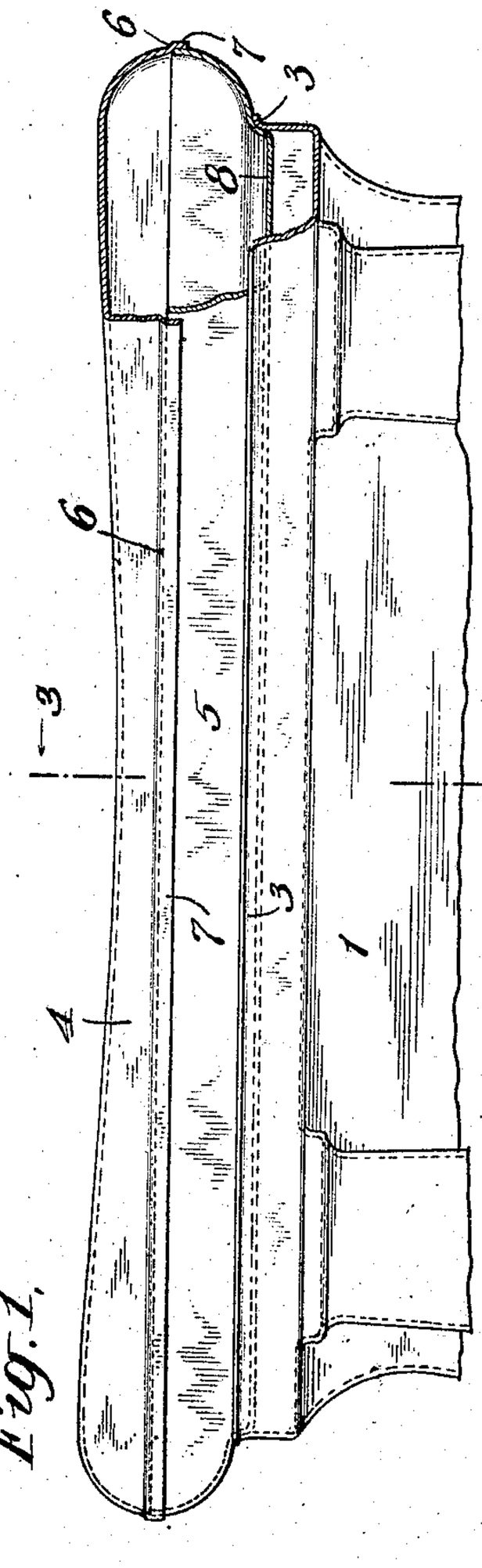

Fig. 1.

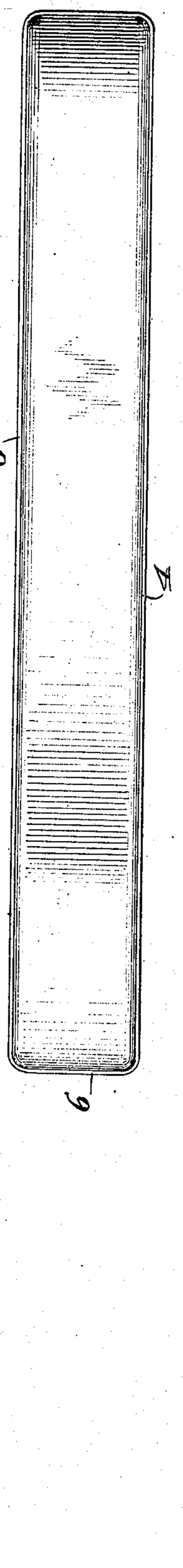

Fig. 2.

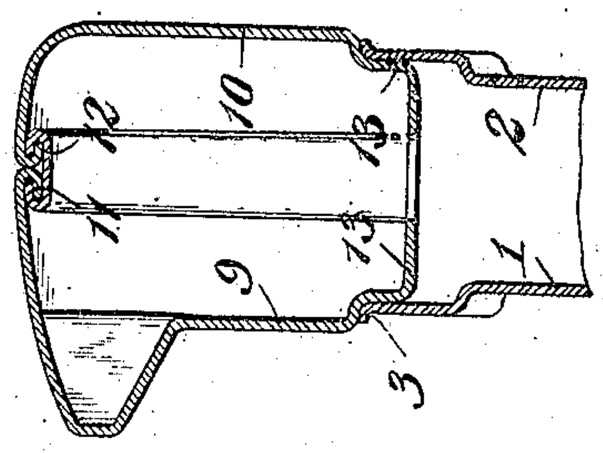

Fig. 4.

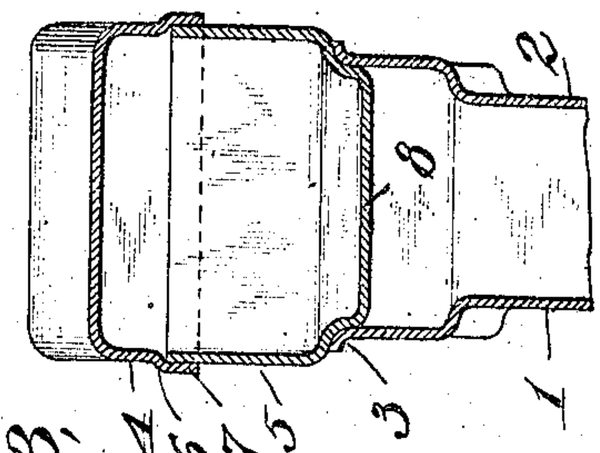

Fig. 3.

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ARM-REST.

No. 900,702. Specification of Letters Patent. Patented Oct. 13, 1908.

Application filed September 6, 1906. Serial No. 333,449.

To all whom it may concern:

Be it known that I, EDWARD G. BUDD, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Arm-Rests, of which the following is a specification.

This invention relates to arm-rests for chairs, seats, and the like, and refers more particularly to arm-rests adapted for use on seats of the type commonly employed in railway cars.

Broadly speaking, the object of the invention is to provide an arm-rest made wholly of metal, since it is considered highly desirable to make as many of the parts of such car-seats as possible of metal in order that they may be proof against fire.

Further objects of the invention are to provide an arm-rest which is of attractive design, which possesses ample strength, and which can be manufactured at small cost. In accomplishing these objects, I construct the arm-rest of two or more sheet-metal parts which may be quickly cut to the desired shape and pressed into form at small expense. Preferably two such parts are employed, and these may be secured together to form the complete arm-rest in any suitable manner, as by riveting or soldering. The division between the two metallic parts forming the arm-rest may be in either a horizontal or a vertical plane; the former construction is preferred, namely, that in which one piece forms the upper part and the other the lower part of the arm-rest.

My invention will be better understood by reference to the accompanying drawings, which show the preferred embodiment thereof, and in which

Figure 1 is a side view of the arm-rest broken away in part, Fig. 2 is a top view of the same, Fig. 3 is a section on line 3—3 of Fig. 1, and Fig. 4 is a view similar to that of Fig. 3 illustrating a modification.

Referring to these drawings, the arm-rest is shown mounted on the upper edge of a seat-end consisting of two sheet-metal plates 1 and 2 pressed to the desired form and secured together with open space between them. At their upper edges plates 1 and 2 may be flanged outwardly as indicated at 3.

In the preferred form of the invention the arm-rest consists of two plates 4 and 5 of sheet steel, brass, or other metal. The plate 4, when cut to the proper dimensions by means of a suitable die, is pressed to such form as will make it of attractive appearance and conduce to the comfort of the occupant of the seat; the form shown in the drawings may be employed if desired, in which the plate has its upper surface curved longitudinally of the plate on an arc of large radius, the side edges rounded off, and the ends curved over. Near its edges the plate is flanged outwardly, as indicated at 6, to provide a lip 7 running entirely around the opening to the interior of the plate. The plate 5 is similarly constructed from a piece of sheet-metal by pressing it into the form illustrated in the drawings. In shaping this piece a tongue 8 is formed in the lower side thereof of such size as to fit snugly between the plates 1 and 2 of the seat-end, and the distance between the side and end walls of the piece is such that these walls will just fit within the lips 7 on the walls of the piece 4.

The parts 4 and 5 for the arm-rest can be manufactured quickly and at small cost since they can be cut from sheets of metal by suitable dies and pressed to the shape illustrated either simultaneously with, or subsequently to the punching operation. The parts are assembled by forcing the edges of the walls of the piece 5 under the lips 7 on the walls of the piece 4 and the two parts may be held together in the proper relation by the clamping action of the metal, or if desired, they may be soldered or riveted, or secured together in any other suitable manner. The complete arm-rest is then secured upon the upper edge of the seat-end. This is done by forcing the tongue 8 on the bottom of the arm-rest down between the plates 1 and 2 of the seat-end, and if the tongue 8 is of such size as to spring the plates 1 and 2 apart slightly, the arm-rest will be held in position without further securing means. If desired, however, riveting, soldering, or other means may be employed for more firmly holding the arm-rest in position.

In Fig. 4, I have illustrated a modified form of arm-rest in which the division between the two plates is in the vertical plane. Two plates 9 and 10 are cut from sheets of metal and pressed to the form illustrated, inwardly turned flanges 11 being provided at the upper edges of the two parts. A binding strip 12 similarly flanged at its edges is then forced over the flanges 11 to hold the plates

9 and 10 together tightly. In shaping the plates 9 and 10, parts 13 are provided thereon adapted to extend down into the open upper edge of the seat-end, and when the plates have been secured together, as above described, the arm-rest is secured in position upon the seat-end in any suitable manner.

Having described my invention, what I claim as new therein and desire to secure by Letters Patent of the United States is:

1. An arm-rest consisting of two sheet-metal parts secured together at their edges and pressed to provide on each part a body portion and a flange extending entirely around the same and turned at an angle thereto and to form an integral projection on the bottom of the arm-rest adapted to coact with the upper end of a seat-end to secure the arm-rest in position, substantially as set forth.

2. The combination of a seat-end consisting of two sheet-metal plates secured together with open space between them, and an arm-rest consisting of two sheet-metal parts secured together at their edges, said parts being pressed to provide an integral projection on the bottom of the arm-rest, and said arm-rest being secured upon the seat-end with said projection entering the open upper end of the seat-end, substantially as set forth.

3. The combination of a seat-end consisting of two sheet-metal plates secured together with open space between them, and an arm-rest consisting of two sheet-metal parts secured together at their edges and pressed to provide on each part a body-portion and a flange extending entirely around the same and turned at an angle thereto and to form an integral projection on the bottom of the arm-rest, said arm-rest being secured upon the seat-end with said projection entering within the open upper end of the seat-end, substantially as set forth.

4. The combination of a seat-end formed of two sheet-metal plates secured together with open space between them, an arm-rest consisting of two sheet-metal parts secured together at their edges, each of said parts being pressed into form to provide a body-portion and an integral flange about the sides and ends of the body-portion turned at an angle thereto and the division between said parts being in a horizontal plane, said arm-rest having an integral projection on the bottom thereof, and means for securing the arm-rest upon the seat-end with said projection entering within the upper end of the seat-end between said plates, substantially as set forth.

5. The combination of a seat-end, formed of two sheet-metal plates secured together with open space between them, and an arm-rest consisting of two sheet-metal parts each pressed into form to provide a body-portion and an integral flange about said body-portion, and said parts being secured together with open space between the body-portions thereof and with said flanges closing the ends of the arm-rest, and said arm-rest having an integral projection on the bottom thereof entering between the plates of said seat-end to position the arm-rest thereon, substantially as set forth.

6. The combination of a seat-end formed of two sheet-metal plates secured together with open space between them, and an arm-rest having the lower portion thereof formed of metal and provided with a downwardly extending projection, said arm-rest resting upon the upper edge of the seat-end with said projection co-acting with the upper edges of the plates of the seat-end to secure the arm-rest upon the seat-end, substantially as described.

7. The combination of a seat-end formed of two sheet-metal plates secured together with open space between them and an arm-rest having the lower portion thereof formed of metal and provided with a downwardly extending projection and a shoulder at the base of said projection, said arm-rest being secured to said seat-end with said projection entering between the plates of the seat-end and said shoulder bearing upon the upper edges of the plates, substantially as described.

This specification signed and witnessed this 31st day of August, 1906.

EDWARD G. BUDD.

Witnesses:
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R. M. FRIES.