July 18, 1933. M. STUBNITZ 1,918,618

CUSHION SEAT FOR VEHICLES

Filed May 12, 1932 2 Sheets-Sheet 1

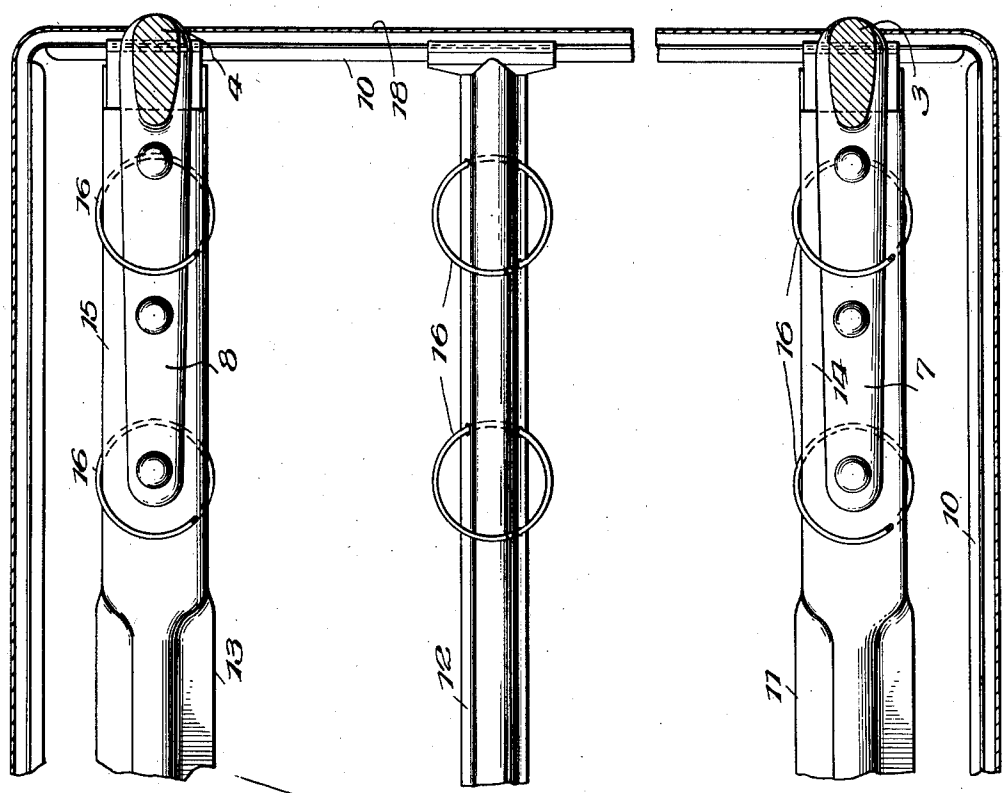


Fig. 3.

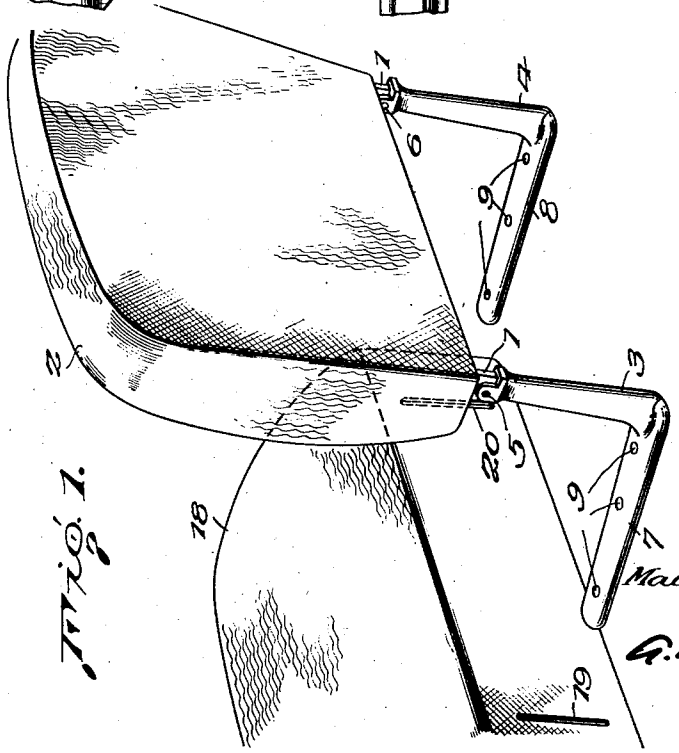


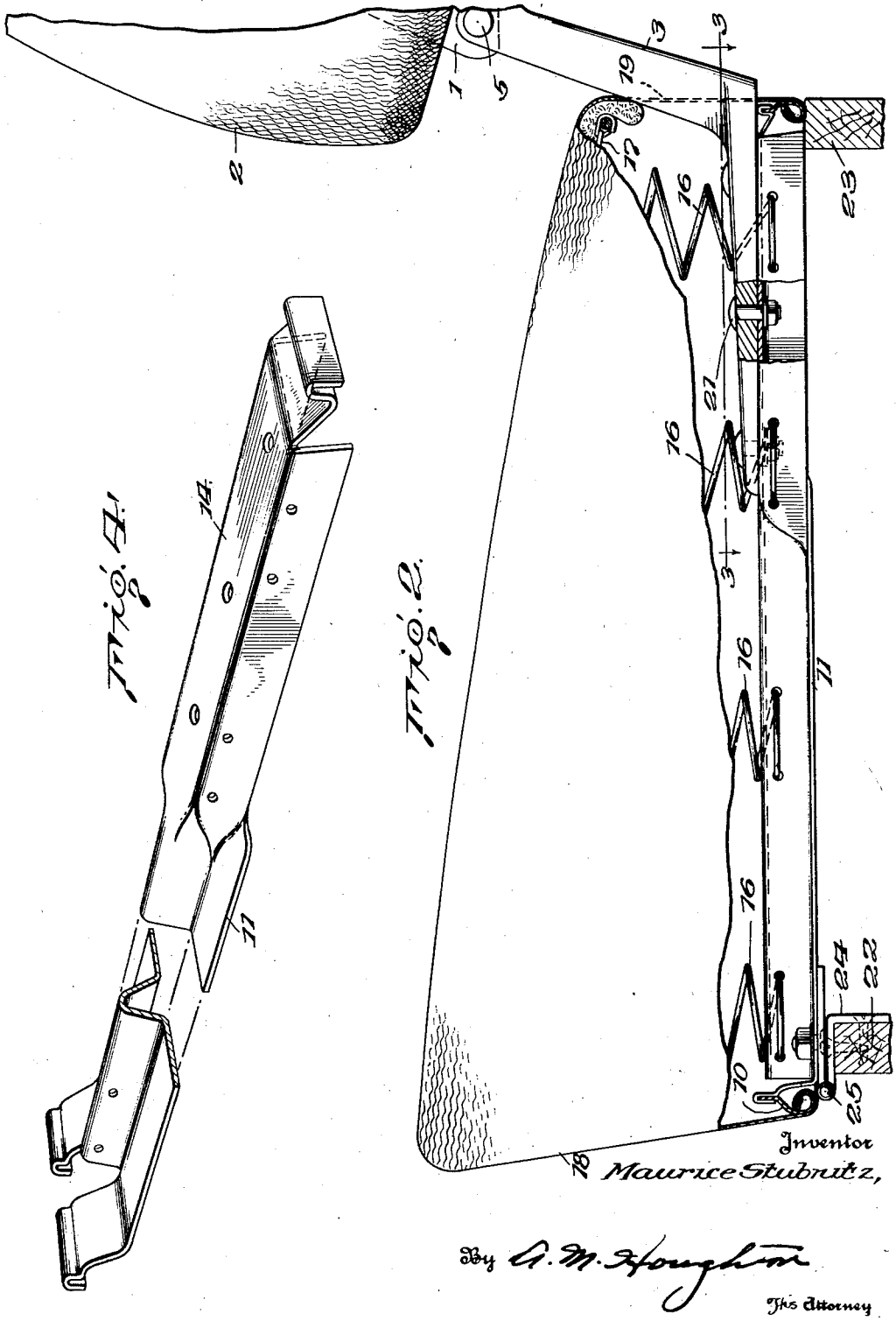
Fig. 1.

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UNITED STATES PATENT OFFICE

MAURICE STUBNITZ, OF PITTSBURGH, PENNSYLVANIA, ASSIGNOR TO FORT PITT BEDDING COMPANY, OF PITTSBURGH, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA

CUSHION SEAT FOR VEHICLES

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This invention relates to cushion seats for vehicles ; and it comprises a folding seat and back assembly consisting of a cushion seat advantageously of metal construction suitably upholstered and provided with means for detachably securing thereto a suitably upholstered back also preferably of metal; and it further comprises means by which the cushion seat and the back may be separately upholstered and shipped to the point of assembly in knock-down form and means by which the coil supporting slats of the seat act as a foundation for the legs of the back support; all as more fully hereinafter set forth and as claimed.

The provision of a folding back and seat assembly of strong and durable construction in which the back springs and cushion springs may be separately upholstered and shipped is a desideratum in the art to which this invention relates.

In order to provide a folding back and seat it has previously been necessary to fasten the legs of the back and also the seat cushion on top of a heavy wooden frame before upholstering and then to upholster the back spring and cushion spring after they were assembled into one unit. This construction required a very heavy wooden frame and it is desirable in the art to provide a seat and back assembly of lighter construction without sacrificing strength or durability.

It is an object of my invention to provide means by which the back springs and cushion springs may be separately upholstered before they are assembled into one unit. Another object of my invention is the provision of a knock-down folding seat and back assembly of simple yet strong and durable construction. It is a further object of my invention to provide means by which the heavy wooden frame on which the cushion springs and back supporting frame are usually mounted may be omitted without weakening the construction of the assembly.

With these and other objects in view my invention consists of a seat and back construction in which certain members of the seat frame are adapted to support the back and in which the seat frame may be separately upholstered, the back frame separately upholstered and then the back supporting legs inserted through slits in the back facing of the seat upholstery and attached to the seat frame.

In the accompanying drawings, I have shown one form of a specific embodiment of my invention.

Fig. 1 is a disassembled perspective view of a seat and back made in accordance with my invention;

Fig. 2 is a side elevation of the seat and back, parts being broken away to illustrate the manner in which the back is secured to the seat;

Fig. 3 is a horizontal section taken on the line 3—3 of Fig. 2; and

Fig. 4 is a detailed perspective view of one of the slats on which the back is secured.

In the drawings, in which like reference numerals indicate corresponding parts throughout the several views, 1 is a steel back frame provided with suitable upholstery 2 and pivotally attached to two bent steel supporting legs 3 and 4 in the customary manner, as shown at 5 and 6 in Fig. 1, to provide means for inclining the back forwardly. The legs 3 and 4 have horizontal portions 7 and 8, respectively, which are flattened on their underside and suitably bored as at 9 to receive bolts or other fastening devices.

A steel seat cushion border frame 10 carries longitudinal spring coil supporting slats 11, 12 and 13 secured thereto in a suitable manner. The two outside coil supporting slats 11 and 13, respectively, are flattened on the top of their rear portions as shown at 14 and 15 and are suitably bored to receive bolts or other securing means. Coil springs 16 are attached to the coil supporting slats and carry upper cushion border frame 17. The whole cushion seat assembly is covered with upholstery 18. The back facing of the cushion spring upholstery is provided with two slits 19 and 20 adjacent respectively to the rear portions 14 and 15 of coil supporting slats 11 and 13 as shown in Fig. 1 to permit insertion of the horizontal portions 7 and 8 of the supporting legs of the back frame. The slats 11 and 13, the slits 19 and 20 and

the horizontal portions 7 and 8 of the supporting legs are all equally spaced apart so that the portions 7 and 8 of the legs may be inserted through the slots 19 and 20 and attached to the portions 14 and 15 of the coil supporting slats 11 and 13. The horizontal portions 7 and 8 of the back supporting legs 3 and 4 are securely bolted to the flattened portion of the coil supporting slats 14 and 15 by means of bolts 21 and lie flush thereon.

The complete seat assembly is supported by a front beam 22 and a rear beam 23 constructed of wood and carried by the floor of the vehicle. A hinge 24 is bolted to the front beam 22 and to the underside of the front of coil supporting slat 11 and a similar hinge is bolted to front beam 22 and coil supporting slat 13 at its front end. By means of these hinges the assembly may be swung forward over a fulcrum 25 on the hinges. When in normal position the back of the seat assembly is supported by virtue of coil supporting slats 11, 12 and 13 resting on wooden beam 23.

By flattening the top of the usual coil supporting slat and suitably boring it I have provided means for fastening thereto the legs of the back. The seat cushion spring may be upholstered in the regular manner, and by providing two slits in the back facing of the upholstery adjacent the two flattened portions of the slats the legs of the seat back may be introduced through these two slits and securely bolted to the slats; the back having previously been upholstered. This arrangement adds a new function to the coil supporting slats in that they are used as a foundation to which is bolted the legs of the steel back frame. If desired, the seat and back frames may be separately upholstered and shipped to automobile assembling plants; it being customary to ship automobiles to assembling plants in "knocked-down" condition. An important advantage of my invention is that the upholstering operation is greatly facilitated by obviating the necessity of upholstering the seat and back as a unit.

Another advantage of my construction is the elimination of the customary heavy wooden supporting frame without consequent weakening of the structure in any part.

What I claim is:

1. In a combined seat and back for vehicles, an upholstered seat frame comprising a metal border frame carrying a plurality of metal channeled spring-supporting slats, the upholstery facing extending over the rear end thereof and provided with slots permitting free insertion or removal of back supporting legs therethrough, means on two of said slats for attachment of back supporting legs, back supporting legs extending through said slots and secured to said last named means, and an upholstered back frame pivotally secured to the upper ends of said legs.

2. In a combined seat and back for vehicles an upholstered seat frame comprising a metal border frame carrying a pair of longitudinally extending bars constructed of channeled metal strips flattened at the rear end, the upholstery facing extending over the rear end thereof and being provided with slots permitting free insertion of back supporting legs therethrough, back supporting legs extending through said slots and having flattened extremities adapted to engage the flattened portion of said bars, means for securing said legs to said bars and an upholstered back frame secured to the other end of said legs.

3. A folding seat and back for vehicles comprising an upholstered metal seat border frame carrying two metal spring supporting slats, said slats being arranged longitudinally of said frame and the rear end of each slat being adapted for attachment to a back supporting leg, the seat upholstery facing extending over the rear end of the seat and being provided with slots adjacent to the rear portion of each of said slats, back supporting legs extending through said slots and secured to the rear ends of said slats and a back pivotally secured to the upper end of said legs.

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