

No. 685,663.

Patented Oct. 29, 1901.

H. W. AVERY.
SEAT FOR HARVESTERS OR THE LIKE.

(Application filed May 8, 1901.)

(No Model.)

Fig. 1,

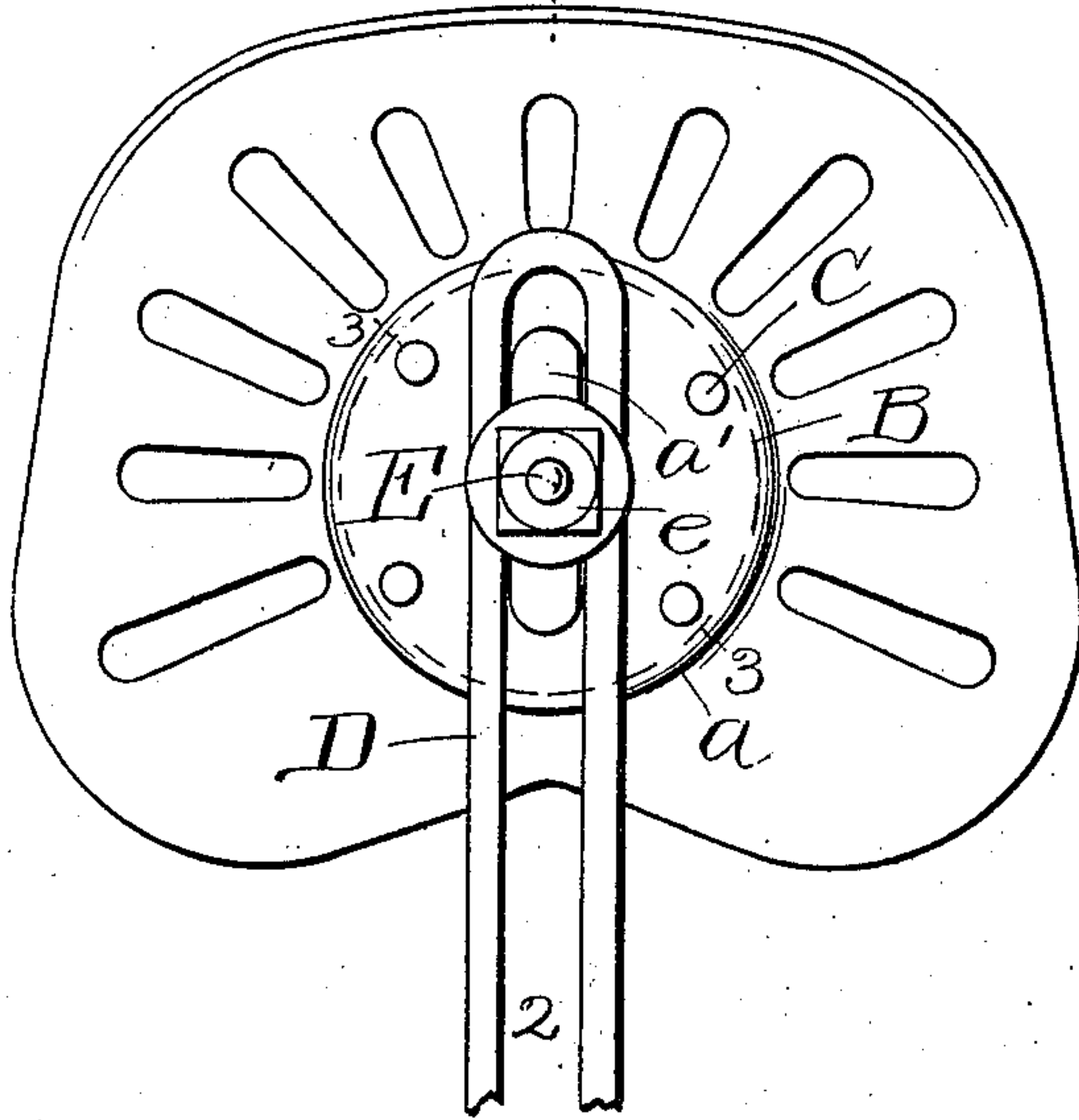


Fig. 2,

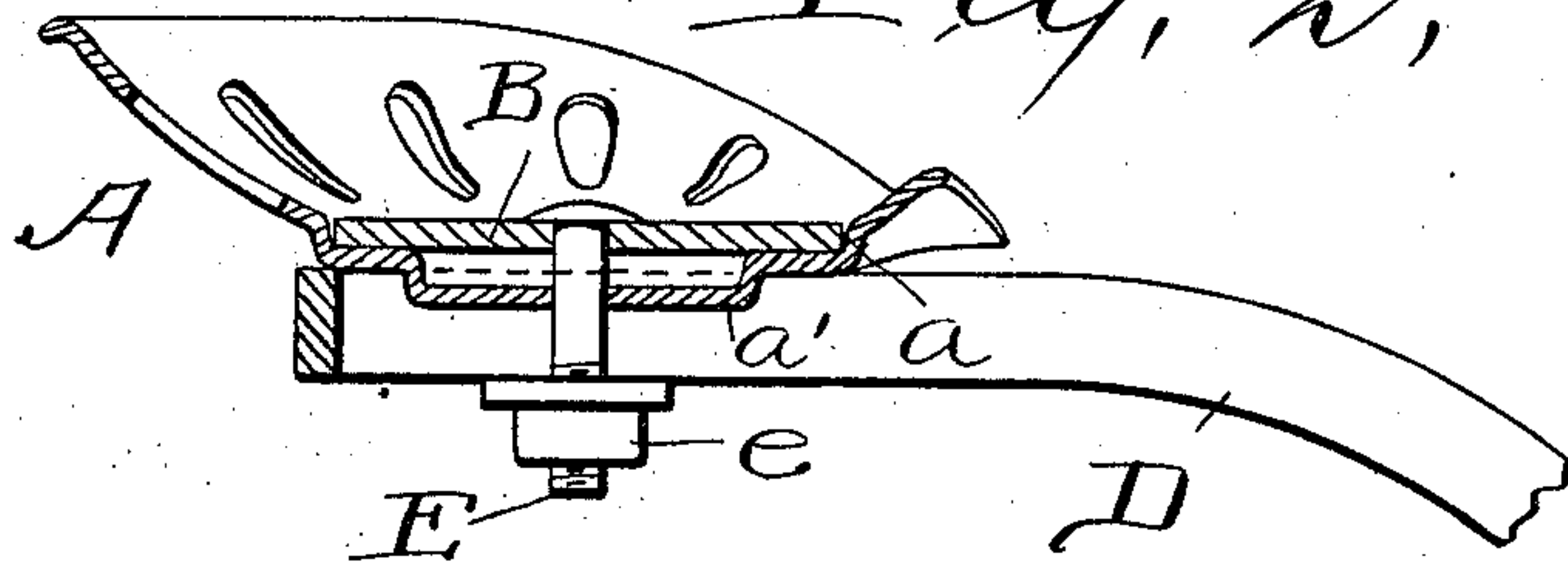
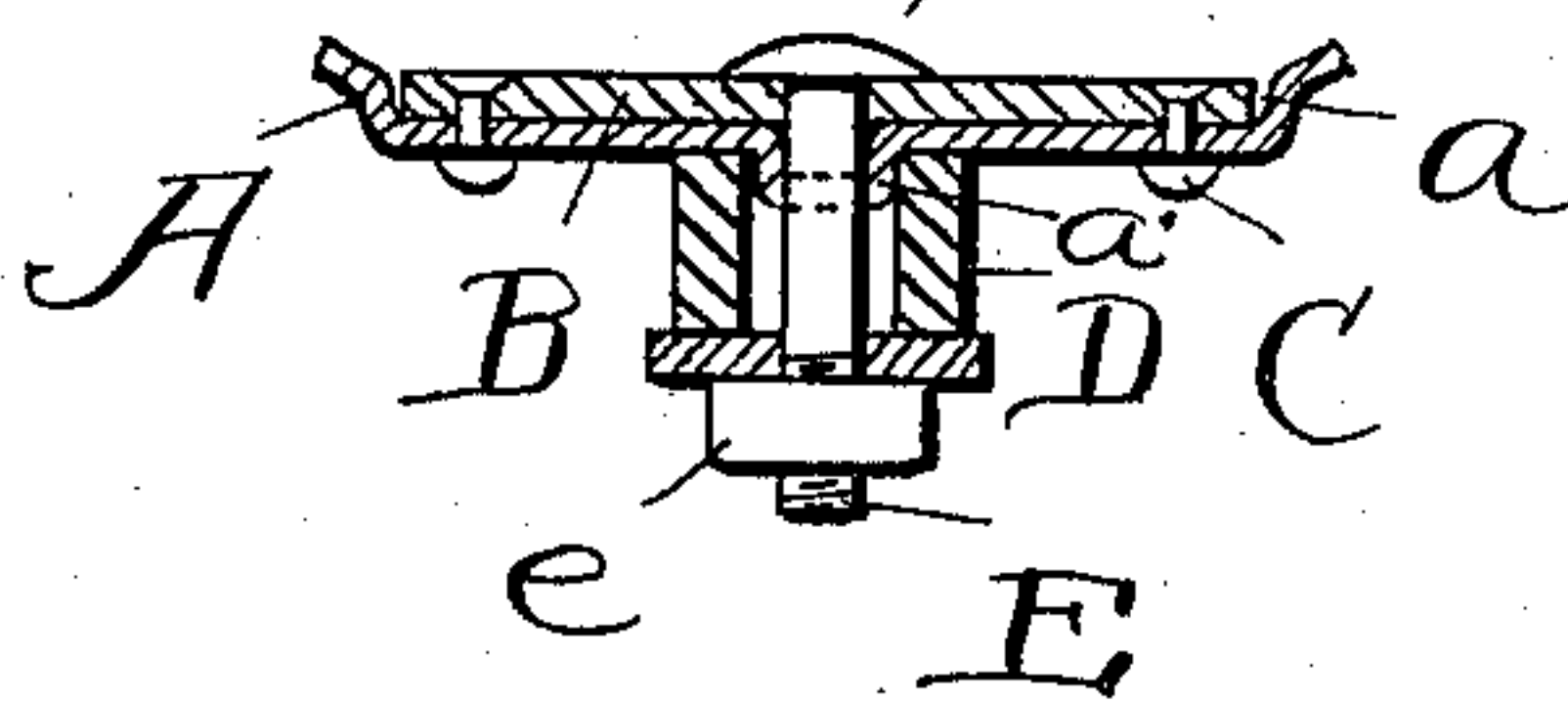


Fig. 3,



Witnesses.
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UNITED STATES PATENT OFFICE.

HENRY W. AVERY, OF CLEVELAND, OHIO, ASSIGNOR TO THE AVERY STAMPING COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

SEAT FOR HARVESTERS OR THE LIKE.

SPECIFICATION forming part of Letters Patent No. 685,663, dated October 29, 1901.

Application filed May 8, 1901. Serial No. 59,206. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. AVERY, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Seats for Harvesters or the Like, (Case C,) of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

This invention relates to pressed-steel seats such as are used on cultivators, harvesters, and various agricultural machines.

Its object is to provide a seat which while being simple in construction shall have the material disposed where it is most needed, so that an equally strong and durable seat may be made from less material, thereby reducing the cost.

A further object is to provide means which shall at once strengthen the seat and prevent its turning on its support.

These seats are commonly supported on the edge of a U-shaped bar, through the opening of which a bolt passes to hold the seat in place.

Such bar allows the seat to be adjusted back and forth a considerable distance, as is frequently desirable; but it gives a very slender support. The present invention is designed to remedy this, providing a simple and efficient reinforcing-plate at the central portion

of the seat, arranged to strengthen the seat where strength is needed, so that the rest of the seat may be made of lighter material, whereby the total weight of the seat and reinforcing is less than of a single seat stamped from one piece of material of sufficient thickness to withstand the wear, it being impracticable to have the stamped seat of material thicker at one point than at another. I place

the reinforcing-plate within a depression made in the seat proper, while in order to prevent the seat turning on its supporting-bar without additional members I form on the under side of the seat an integral projection

which engages the supporting-bar, defining the position of the seat thereon. The bending of the seat to make the depression for the

reinforce and the limiting projection are of themselves an advantage in making the seat more rigid.

The drawings fully illustrate my invention, Figure 1 being a bottom plan of the seat and its supporting-bar; Fig. 2, a vertical section thereof on the line 2 2 of Fig. 1, and Fig. 3 a fragmentary cross-section substantially on the line 3 3 of Fig. 1.

In the drawings the seat proper is designated A. It is adapted to be stamped from a single piece of sheet metal in a desirable form. At its central portion it is depressed or recessed downward, as at *a*. Within this central depressed portion is a reinforcing-plate B, conforming to the size of the recess. This reinforcing-plate is made, preferably, of sheet metal of the proper thickness to give sufficient strength to the central portion of the seat. The depression *a* is of such depth that a reinforcing-plate of the proper thickness will have its upper surface substantially flush with the upper surface of the seat adjacent thereto. The reinforcing-plate is held in this depression by rivets C, which are preferably countersunk at their upper ends. On the under side of the seat is the integral downward projection or boss *a'*, which is preferably elongated, as shown.

D represents the supporting-bar, which may be of the U shape shown, and in the space between the legs of this bar the boss *a'* takes. The seat is clamped to the bar by the central bolt E, having a nut *e*.

With such a construction as described the seat proper may be made of very light material and the reinforcing-plate of whatever thickness is necessary to provide the requisite strength, whereby the total weight of the seat and reinforce by being more efficiently placed may be less than that of a seat made in one piece.

I claim—
1. A seat composed of a pressed-sheet-metal body having a downwardly-recessed center, combined with a reinforcing-plate occupying such recess and having its upper surface sub-

stantially flush with the adjacent surface of the seat, and rivets holding the reinforce and body together.

2. A seat composed of sheet metal and having a downwardly-recessed central portion,
5 and a downwardly-extending boss within said central portion, combined with a metal reinforcing-plate occupying said central portion

and riveted to said seat, substantially as described. 10

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

HENRY W. AVERY.

Witnesses:

ALBERT H. BATES,
H. M. WISE.