

A. HEERDT.
SHEET IRON SHELVING.
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1,209,157.

Patented Dec. 19, 1916.

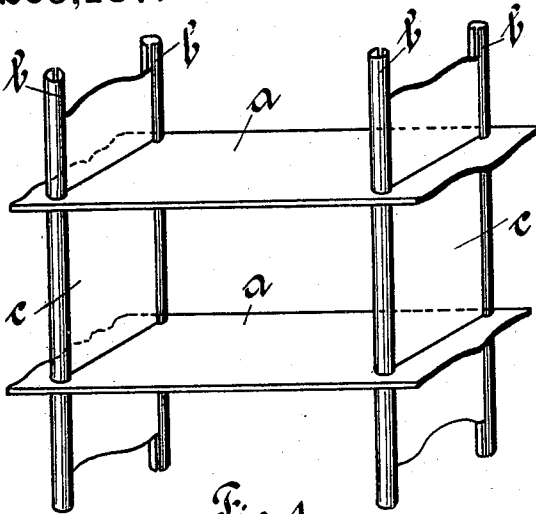


Fig. 1.

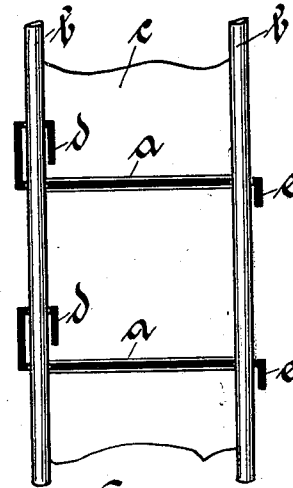


Fig. 2.

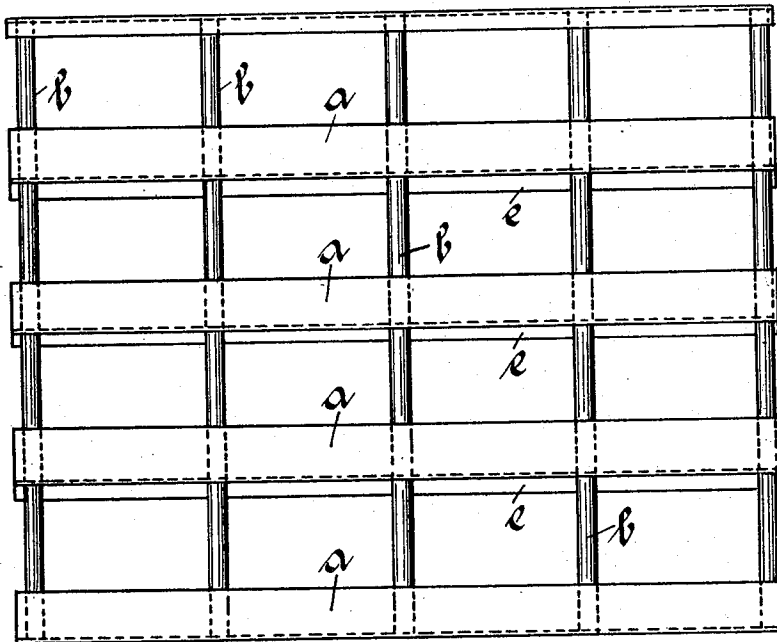


Fig. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

ADOLF HEERDT, OF FRANKFORT-ON-THE-MAIN, GERMANY.

SHEET-IRON SHELVING.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ADOLF HEERDT, subject of the German Empire, residing at Niddastrasse 60, Frankfort-on-the-Main, Germany, have invented new and useful Improvements in Sheet-Iron Shelving, of which the following is a specification.

This invention relates to an improvement in the already known sheet metal shelving in which horizontal single-piece shelves are fixed upon upright single-piece supports passing through them and are lodged upon suitable shoulders on these supports at the required height; and vertical side walls are inserted between the horizontal shelves, merely for inclosing and limiting the space, without materially aiding in the support of the load. In this construction, difficulties are found in securing the shoulders on the vertical supports in a simple manner at the requisite height and also in obtaining in a simple manner a fastening and guidance of the vertical walls.

The known devices according to which sleeves with side rims are placed upon the vertical uprights or rolled-on sleeves are provided at the side edges of the vertical partitions, render difficult the fitting of these sheet metal shelves in regard to the height thereof.

According to the present invention there is constructed a simple, resistant and strong sheet iron shelving, which can be adapted in a simple manner in its dimensions to the wishes of the buyer, by making use of tubes as the uprights, which tubes are provided with a longitudinal slot into which the vertical partitions can be inserted, after alternately placing the intermediate horizontal shelves upon the uprights so that consequently the horizontal shelves with their load are supported immediately by the vertical partitions inserted in the slots. As compared with the very difficult diminution of the distances between the shelves in the shelving, hitherto existing, it is in the present instance only necessary to cut down the vertical partitions with the metal shears, or to replace them by fresh metal partitions easily obtainable.

The accompanying drawing illustrates the invention as follows:

Figure 1 shows a portion of the middle of a set of shelving. Fig. 2 shows a transverse section through a portion of the shelving. Fig. 3 shows the new shelving in front elevation.

In these figures *a* denotes the one-piece horizontal shelves, which by means of holes perforated at the edge are placed upon the uprights *b*. These uprights are composed of tubes which are provided with a longitudinal slot. Between each pair of shelves there are inserted vertical partitions *c* so as to be held in the slots of the uprights, so that the single-piece shelves *a* are supported by these partitions *c* and are held thereby at the requisite distance apart. By this special construction, the shelving in spite of its simplicity possesses in combination with the metal backing or with flat iron stays at the back an extraordinary firmness and power of resistance even to very considerable weights. The shelves *a* can of course be constructed to correspond to the load for which they are designed, and they may be flat as shown in Fig. 1 or more or less bent as shown in Fig. 2.

In the construction illustrated in Fig. 2, the shelves *a* are provided at the ends with edges *d*, *e*, in order to be able to guide them at various places upon the slotted tubes *b* to increase the rigidity of the shelves. The rims in this case can of course also serve to form molds. The shelving can obviously either be placed against a wall or be constructed back to back, or be provided with a special rear wall or with doors, roller blinds or the like.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

An improved shelving structure comprising tubular supports each having an inwardly facing longitudinal slot or slots therethrough, single horizontal piece shelves each having openings near its edges and corner portions to freely receive the tubular supports therethrough and vertical parti-

tions arranged between the shelves and extending through the slots of the supports to the inner surface of the wall diametrically opposite with respect thereto, and over the openings of the shelves, said partitions serving as plates upon which the weight of the shelves rest at the upper edges of the partitions, and the lower edges of said partitions resting upon the shelves beneath.

Dated this 30th day of March 1914. 10
In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ADOLF HEERDT.

Witnesses:

FRIEDRICH CARL WENTZEL,
D. HERMANN FRANZ KAST.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."