A. GRUNDMANN.

SHELF OR CASE.

APPLICATION FILED DEC. 4, 1907.

918,039. Patented Apr. 13, 1909.

Fig. 2.



Fig. 1.

Witnesses:

F. R. Weidl

Albert Fleischer

Inventor:

August Grundmann

UNITED STATES PATENT OFFICE.

AUGUST GRUNDMANN, OF WALDENBURG, GERMANY.

SHELF OR CASE.

No. 918,039. Specification of Letters Patent. Patented April 13, 1909.

Application filed December 4, 1907. Serial No. 405,014.

To all whom it may concern:

Be it known that I, AUGUST GRUNDMANN, subject of the King of Saxony, residing at Waldenburg, Saxony, Germany, have invented certain new and useful Improvements in Shelves or Cases, of which the following is a specification.

The present invention relates to a frame or stand which is detachably put together and is employed for the reception of shelves or cases. It is formed by means of bars provided with T-shaped slots which bars are connected by bars providing inversely placed T-shaped slots which connection takes place with the assistance of I-shaped supports suspended in the T-shaped slots of the vertical bars. The vertical bars can be prolongated by placing the ends of two vertical bars between two connecting bars also provided with inversely placed T-shaped slots.

Figure 1 is a perspective view of a stand or frame work constructed according to this invention. Fig. 2 is a view of clamp.

Uprights 1 are bent at the bottom to form feet 2 or are riveted to a sole bar. These uprights are formed in the known manner with T shaped slots 3 at certain distances apart. The cross-bars 4 by means of which the uprights are joined together and which act likewise as supports for shelves or metal plates are furnished on their vertical ends with ⊥ shaped slots, the horizontal portions of which are below the vertical portions. The joining of the bars to the uprights is effected by special I shaped cleats 5. The cleats 5 are put into the horizontal part of the T shaped slots in the uprights so that they can slide down to the bottom of the slot. The cross-bars 4 are then pushed with the horizontal portions of their T shaped slots over the cleats 5, the vertical portions of their slotted parts resting on the webs of the clamps 5. The wide T shaped heads of the cleats prevent the connected parts from coming asunder. This method of connection is of advantage because the cross-bars may consist of angle or other profile iron. In order to extend such a stand sidewise, it is only necessary, as is indicated by the cross-bar 8 to connect by means of cross-bars further uprights with those already existing. The frame is increased in height by mounting additional uprights thereon different uprights being joined together by double fish plates and an intermediate piece 9, the normal T slots and cleats being employed. The different parts, uprights, extension uprights, and cross-bars may consist of flat iron, angle iron or T iron or any other profile iron. By covering such frames with wood, sheet metal or wire-gauze and suitably forming the interior they can be made suitable for use as safes or wardrobes for keeping objects of various kinds such as clothing and all kinds of goods.

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:—

1. In a frame for shelves and cases the combination of vertical bars (1) having a series of spaced T-shaped slots located therein, cross-bars (4, 8) with downwardly projecting ends providing inversely placed T-shaped slots in their downwardly projecting ends, and I-shaped supports (5) suspended in the slots of the vertical bars and connecting the same with the horizontal bars substantially as described.

2. In a frame for shelves and cases the combination of vertical bars (1) having a series of spaced T-shaped slots located therein, flat bars (9) providing inversely arranged T-shaped slots vertically placed against both sides of the ends of two adjoining vertical bars, and I-shaped supports suspended in the slots of the said bars and connecting the same substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

AUGUST GRUNDMANN.

Witnesses:
FRANS WEIDL,
PAUL ARRAS.