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M. SCHMID

1,974,838

SCREWLESS METAL CONSTRUCTIONAL SET

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Fig. 1

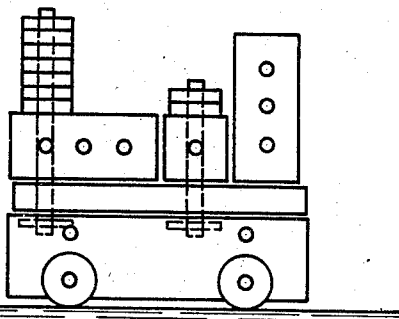


Fig. 4

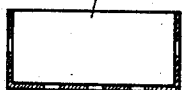


Fig. 5.



Fig. 2

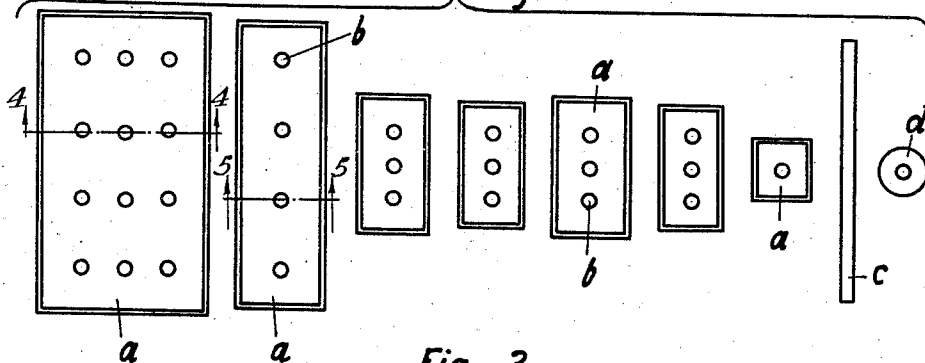
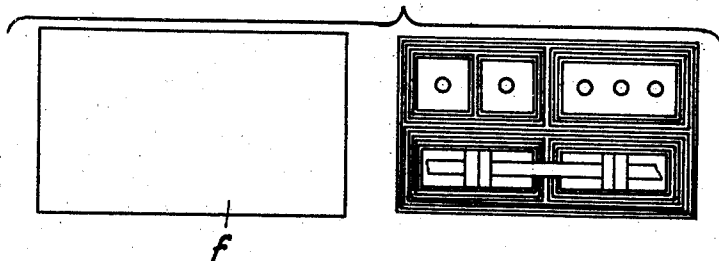


Fig. 3



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SCREWLESS METAL CONSTRUCTIONAL
SET

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1 Claim. (Cl. 46—35)

Metal constructional sets are known, the base constructional material of which consists of perforated sheet metal strips which are to be fitted together by means of screws and nuts. Constructional elements made of resilient parts, such as spirals and the like are also known, which are connected by hinged or rigid joints. Such constructional sets are difficult for a small child to manipulate and also too expensive to produce.

These objections are overcome by the invention in a simple manner in that the constructional elements are made as small hollow bodies of rectangular, square or other shape, provided with bores and open on one side. These bodies can be fitted together using bolts and discs to form all kinds of rigid and movable imitations of constructions of great dimension produced in the technical industries, or they can be simply threaded together and built up to form architectural structures. The dimensions of the individual bodies are chosen so that, placed one into the other, they occupy a minimum amount of space, for example can be accommodated in a match box, so that large boxes are no longer necessary.

An embodiment of the invention is illustrated by way of example in the accompanying drawing, in which:—

Fig. 1 shows in side elevation an imitation of a locomotive.

Fig. 2 shows the individual constructional elements.

Fig. 3 shows the different constructional elements placed the ones in the others and accommodated in a match box and the cover for the box in position for sliding reception therein, and

Figs. 4 and 5 are detail sectional views taken respectively on lines 4—4 and 5—5 of Figure 2.

As shown by the drawing, the constructional set consists of hollow bodies *a* of sheet metal or similar material of rectangular, square or other shape, and provided with bores *b*. By fitting together and building up these sheet-metal bodies rigid and movable architectural and also movable structures can be imitated. In the case of the latter structures pins *c* are inserted through the bores *b* and fixed by means of discs *d* of any suitable material (Fig. 1).

As shown in Fig. 3, the different bodies are made in such dimensions that they can be placed the ones in the others and accommodated in the cover *f* of a match-box. The largest constructional element *a* serves in this instance as the drawer for the cover *f*. By this construction the constructional elements can be employed as a gift and advertisement and also for demonstration and instruction.

I claim:—

A screwless metal constructional set, comprising in combination a box having the dimension of a match box and consisting of a cover and a metal drawer; said drawer having holes in its sides and holes in its bottom, a plurality of rectangular box-shaped bodies of different lengths and widths open on one side fitting one in the other to form sets and having holes in all the remaining sides, a plurality of wooden pins of a diameter equal to that of the holes in said drawer and in said elements, and a plurality of discs each having a bore equal to the diameter of said pins adapted to be slipped on to said pins, to secure the same in position in the holes in said bodies and said drawer, said drawer adapted to accommodate said sets of box shaped bodies, said pins and said discs and to be closed by said cover.

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