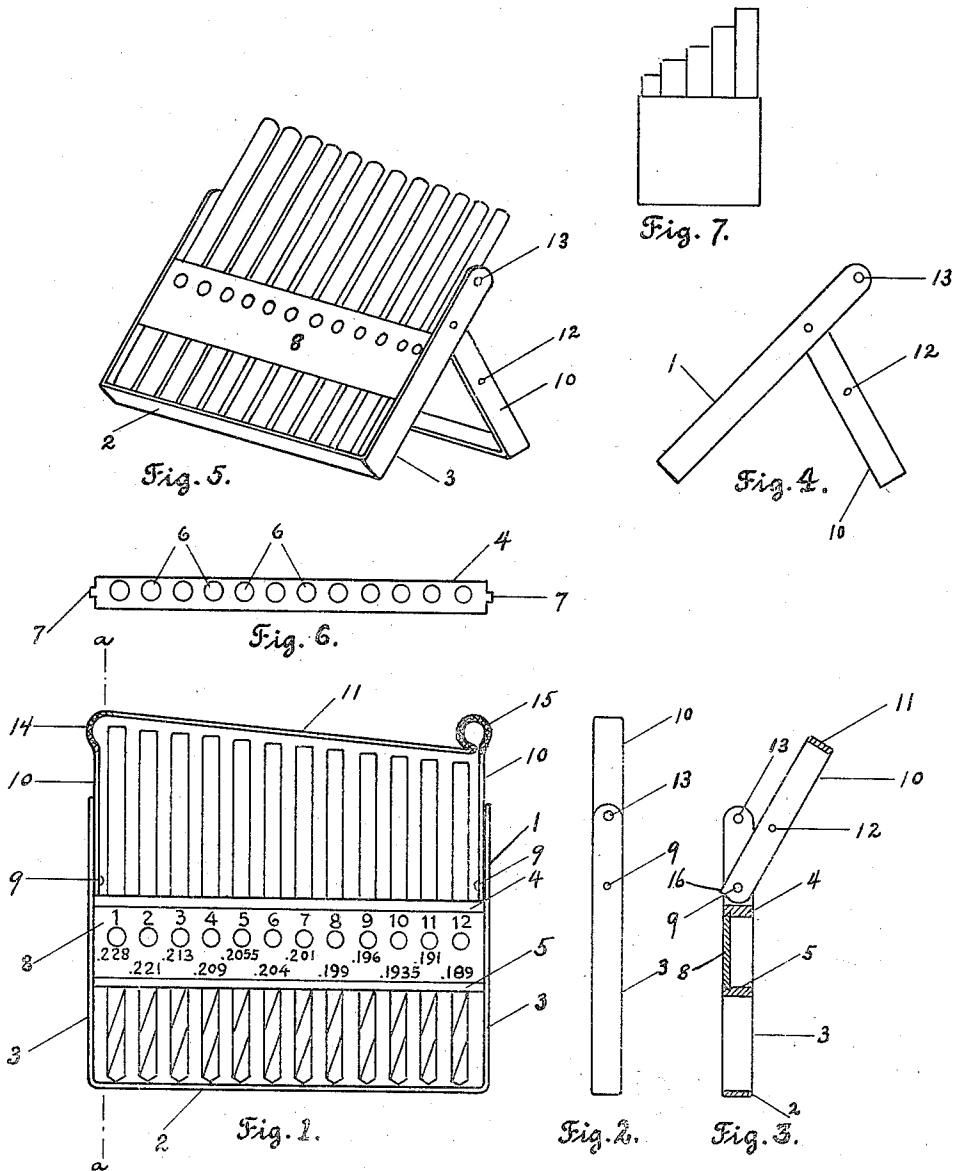


M. C. ZANGE.
TOOL CASE.
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1,043,891.

Patented Nov. 12, 1912.



WITNESSES:

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TOOL-CASE.

1,043,891.

Specification of Letters Patent.

Patented Nov. 12, 1912.

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To all whom it may concern:

Be it known that I, MAX C. ZANGE, a citizen of the United States, and a resident of Cincinnati, county of Hamilton, and State of Ohio, have invented a new and useful Tool-Case, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to a case especially adapted for holding drill bits or other tools of graduated sizes; and has for its object the provision of a case of simple and inexpensive construction, and one which shall serve the purposes of a convenient gage and rack when open and the tools are in use.

It is a further object of my invention to provide a case for such tools, which may be constructed in units or sections, so that each individual unit, containing tools of nearly related sizes, may be of a size and shape convenient to be carried in the pocket, and to the end that the complete set may be distributed among the different workmen; the several units being, also, of a suitable size and shape to be packed conveniently in a single receptacle.

In the drawings I show my tool case as especially arranged for a set of drills, such as are known as Stubs steel wire gage drills; but the illustration of said tool case as applied to such use serves only as an example of its general adaptability.

In the several figures of the drawings like numerals indicate like parts.

In the drawings: Figure 1 is a front elevation of one section, or unit, of my new tool case, with the tools included. Fig. 2 is an end elevation of the same. Fig. 3 is a section on the line *a-a* of Fig. 1, with the guard partially open, however. Fig. 4 is an end elevation with the guard open. Fig. 5 is a perspective. Fig. 6 is a plan view of one of the holds. Fig. 7 is an end elevation of a series of units in their receptacle.

The numeral 1 indicates the main frame, or body, of my new tool case. The said frame may be constructed of any suitable material; I prefer, however, to make the same of steel of a substantial thickness and of a width sufficient to extend beyond the line of the inclosed tools and to permit the introduction of the gage in the manner hereinafter described. Said frame comprises a base 2 and the uprights 3—3, perpendicular thereto. Between the uprights 3—3, the

holds 4 and 5 are mounted, being secured to said uprights by means of the projections 7—7 on the ends of said holds. Said holds 4 and 5 have holes 6 of the maximum sizes of the tools to be contained, the holes in hold 5 registering with those in hold 4; and the upper hold, 4, I prefer to make of a sufficient thickness to serve as a guide for the tools when the same are being inserted.

Between the holds 4 and 5, and at the front of the case, the gage 8 is mounted, said gage being fitted into suitable recesses in the said holds, as clearly shown in Fig. 3. Said gage has openings which are of the standard sizes of the tools to be contained, and the holes in said gage are as near as possible to the holes of corresponding sizes in the holds. The numbers of the tools producing holes of the several dimensions, together with the dimensions in decimals of an inch, are marked on the gage as near the tool itself as possible.

Pivotaly mounted at 9—9 on the uprights 3—3, is the guard or cover; said guard is constructed of material of the same width as that composing the frame, and comprises the sides 10—10, and the upper, or cross part, 11. The upper part of said guard may be straight, where the tools are of uniform lengths, or slanted, as shown in Fig. 1, where the tools are of graduated lengths, so that the distance between the same and the tops of the series of inclosed tools will be approximately uniform. Either one, or each, of the sides 10, carries a projection 12, which is adapted to fit into a perforation 13 in one or both of the uprights 3—3 of the frame, when the guard is closed, thus forming a friction stop, the uprights 3—3 acting as springs, and preventing the said guard from opening without pressure directly applied for that purpose. To facilitate the opening of said guard, checkered thumb-pieces 14 and 15 are provided on each side thereof; and a stop 16 is provided to limit the opening of said guard to one direction. When open the guard serves as an easel support for the frame and the inclosed tools, as clearly shown in Figs. 4 and 5, the thumb-piece 15 serving as a rest to obtain an even setting where the upper part 11 of the guard is slanted.

From the foregoing it will be seen that the drill bits or other tools inserted through the holes 6 of the holds 4 and 5 will rest on the base 2 of the frame, and that the upper part

11 of the guard will pass over the tops of the same and in such proximity thereto that they will be prevented from falling out. When open, the case serves as a rack, as
5 shown, presenting the tools and gage for convenient reference and use.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

10 1. A tool case comprising a frame, said frame having a base and an upright at each end of said base, a hold mounted between said uprights, said hold comprising a bar perforated to receive tools to support said tools
15 vertically on said base, and a guard pivotally mounted between said uprights and adapted to pass over said hold the front and rear sides of said frame and guard being open to expose the tools.

20 2. A tool case comprising a frame, said frame having a base and an upright at each end of said base, a hold mounted between said uprights, said hold comprising a bar

perforated to receive tools to support said tools vertically on said base, a guard pivotally mounted in said frame and adapted
25 to pass over said hold when closed, the front and rear sides of said frame and guard being open to expose the tools, and means to keep said guard closed.

3. A tool case comprising a frame, said frame having a base and an upright at each end of said base, a hold mounted between said uprights, said hold comprising a bar
35 perforated to receive tools to support said tools vertically on said base, and a guard pivotally mounted between said uprights, said guard being adapted to pass over said hold when closed, and to serve as a support for said frame when open.

In testimony whereof, I have hereunto set my hand this 30 day of July 1910.

MAX C. ZANGE.

Witnesses:

ARTHUR H. EWALD,
CHARLES W. HOFFMAN.