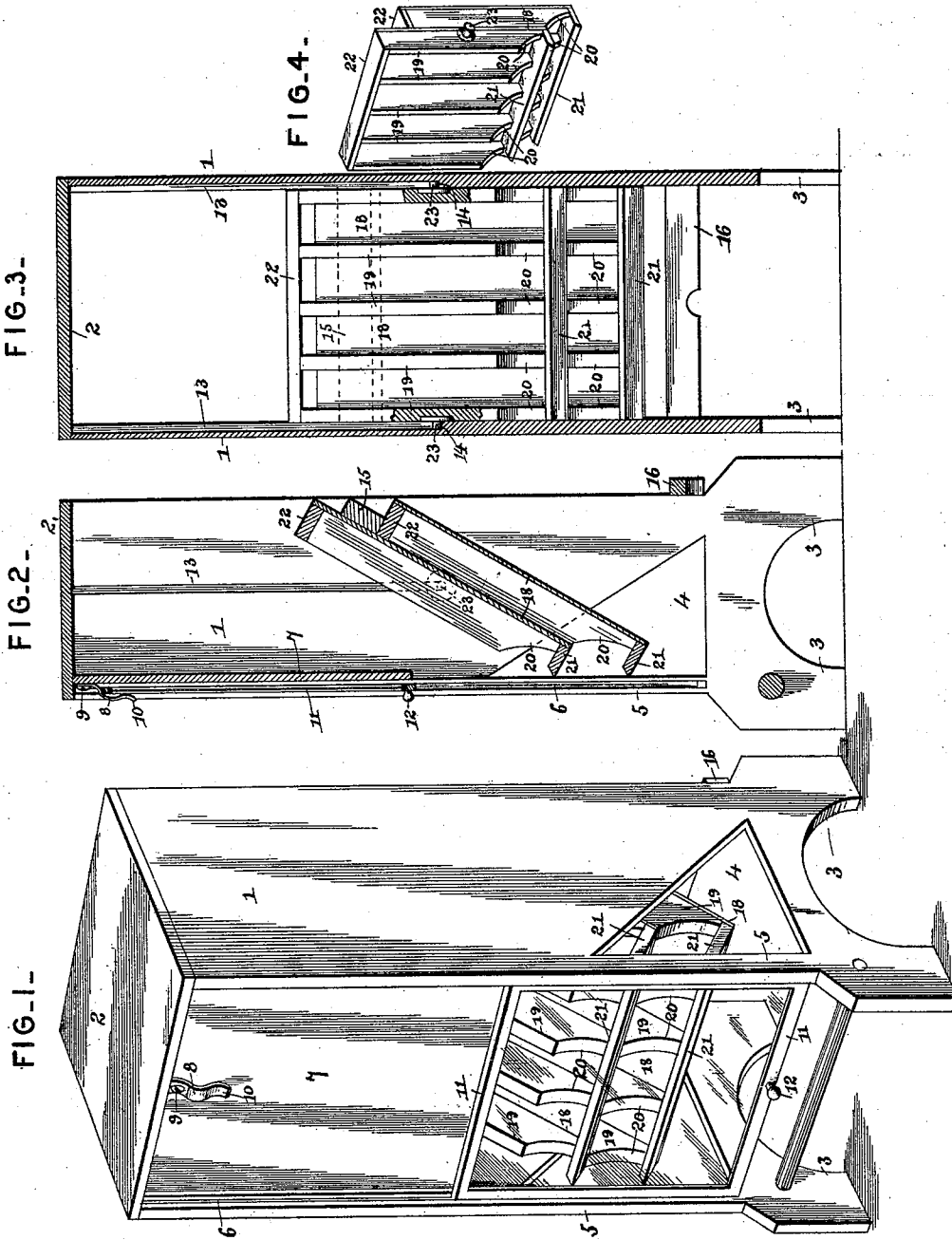


(No Model.)

O. J. ISRAEL.
SPOOL HOLDER.

No. 477,328.

Patented June 21, 1892.



Witnesses:

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OSCAR J. ISRAEL, OF CHARITON, IOWA.

SPOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 477,328, dated June 21, 1892.

Application filed July 23, 1891. Serial No. 400,490. (No model.)

To all whom it may concern:

Be it known that I, OSCAR J. ISRAEL, a citizen of the United States, residing at Chariton, in the county of Lucas and State of Iowa, have
5 invented a new and useful Spool-Holder, of which the following is a specification.

This invention relates to improvements in spool cases or cabinets for displaying in an attractive manner various colors and sizes of
10 threads and silks wound in spool form.

The object of the invention is to provide a cheaply and simply constructed cabinet, which may be conveniently filled and to which convenient access may be had and which will
15 exhibit in a convenient manner several series of spools wound with various colors and sizes of silks and threads.

Other objects and advantages of the invention will appear in the following description; and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective of a cabinet constructed in accordance with my invention. Fig. 2 is a vertical longitudinal section. Fig. 3 is a transverse section. Fig. 4 is a detail in perspective of the spool-receiving tray.

Like numerals of reference indicate like parts in all the figures of the drawings.

30 1 designates the opposite vertical side walls, which are connected at their upper ends by the cover 2, said side walls at their lower ends being spread to form the feet or base 3. Triangular openings 4 may be formed in the
35 side walls, thus leaving vertical standards 5 at the front of said openings and in said standards, and continued along the inner sides of the side walls or standards 1 are formed a pair of grooves 6. In rear of the grooves 6 an
40 upper closed cover or front wall 7 is interposed between the side walls 1 and extends to about the middle of the front of the casing, and at its upper end is provided with a spring-clasp 8, secured by a screw 9, passed
45 through its upper end into the wall 7 and terminating at its free end in an outwardly-bent lip 10. Mounted for sliding in the grooves or ways 6 is a vertically-movable door 11, having a knob 12 near its lower end, and at its
50 upper end adapted to slide under and be impinged upon by the spring 8.

The inner faces of the side walls 1 are provided with vertical grooves 13, which extend from the upper edges of the side walls at the centers thereof to near their middles and terminate in bearings 14. Above the lower ends of the grooves the side walls are connected by a transverse strip 15, and a similar strip 16 may connect the side walls at their front and rear edges near their lower ends.

60 A series of spool-receiving trays may be employed; but in this instance I have merely illustrated two, located one upon the other and secured together. Each tray consists of a bottom 18, to the upper surface of which is
65 secured a series of longitudinally-disposed partitions 19, cut away, as at 20, at their lower ends and connected at said ends by a front transverse combined indicating and rest board 21, narrower than the smallest
70 spool, while their rear ends are connected by a transverse strip 22. Two or a series of these trays are mounted one upon the other, each tray being offset from the lower tray, so that the cut-away ends of the partitions of each
75 tray will be in rear of the corresponding ends of the partitions of the tray below, so that said trays do not interfere with free access to each other. The series of trays are provided at their opposite sides with bearing-
80 trunnions 23, located in front of the center of gravity of the trays as a whole, and the trays are introduced in the casing at the upper end of the same before the top is placed in position, said trunnions riding down the opposite
85 grooves and resting in the bearings at the lower ends thereof, whereby they are free to swing forwardly at their lower ends and at their rear ends rest upon the transverse bar 15, which serves as a stop to maintain the
90 trays in an inclined manner, whereby the numerals or other indicating characters upon the rest-board opposite each of the compartments may be readily inspected from the outside, the trunnions being located in front of
95 the center of gravity of the trays, so that the rear end of the series of trays is the heavier and hence will tilt back and rest upon the transverse bar 15, in which position it will be maintained.

100 If desired, I may omit the cross-bar 15 and locate the trunnions in rear of the center of

the tray, so that the latter will hang vertically; but I prefer to employ the bar and locate the trunnions as herein described, as better access can then be had to the cabinet.

- 5 The door 11 is preferably provided with a sight panel or glass, and may be raised and lowered for the purpose of giving access to or closing the cabinet and when raised will be retained in such position by the spring-tongue
- 10 8. Upon the front edge of each of the rest-strips 21 the number or character of the spools of the compartments is indicated, while upon the upper face of said board the number of spools accommodated by each compartment
- 15 may be indicated, so that a merchant in taking an inventory of his stock and having previously filled each tray may know at a glance how many spools there are, and thus a detailed counting of the same is avoided. By
- 20 raising the door 11, spools may be successively introduced over the rest-board opposite each compartment until the compartments of the trays are filled each spool introduced forcing the preceding spool up into the com-
- 25 partment. As a spool is sold and removed another of the series above drops to position upon the rest-board opposite the opening formed by the offsetting of the trays.

30 Having described my invention, what I claim is—

1. The combination, with the casing comprising the opposite side walls having opposite grooves terminating at their lower ends midway the side walls in bearings, of the
- 35 spool-tray having compartments and opposite trunnions located at the sides of the tray and adapted to ride in the grooves of the side walls, substantially as specified.

2. The combination, with the casing comprising the opposite-side walls having vertical grooves upon their inner sides and terminating midway of the side walls in bearings, of a spool-holder consisting of a series of trays
- 40 located one upon the other and each arranged slightly in rear of the tray below, each tray

having a series of partitions dividing it into compartments, and opposite trunnions extending from the opposite walls of one of the trays and located in front of the center of the combined series of trays, substantially as 50 specified.

3. The combination, with the opposite side walls having the vertical grooves or ways, the lid, the front stationary cover, and the sliding cover located in front of the spring-clasp, secured to the stationary cover, the series of
- 55 spool-trays offset from each other and mounted upon each other, each tray comprising a series of longitudinal partitions reduced at their front ends and front connecting rest-strips, the opposite trunnions extending from the
- 60 sides of the trays in front of the transverse center thereof and riding in the grooves, and the transverse strip 15, located above the ends of the grooves and connecting the rear edges
- 65 of the side walls, substantially as specified.

4. The casing having the grooves or ways 13, combined with the series of inclined spool-trays secured one upon the other, with the upper tray offset from the lower tray, so that
- 70 said trays do not interfere with free access to each other, and bearing-trunnions 23 for the trays to rest in the grooves or ways, substantially as described.

5. The casing having the grooves or ways 13, combined with the series of inclined spool-trays secured one upon the other, with the upper tray offset from the lower tray, so that
- 75 said trays do not interfere with free access to each other, and bearing-trunnions 23 for the tray to rest in the grooves or ways and the sliding door 11 to close over the front of the trays, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 85 presence of two witnesses.

OSCAR J. ISRAEL.

Witnesses:

JOHN E. BROWN,
RALPH F. McCULLOUGH.