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CASE FOR DRILLS

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CASE FOR DRILLS

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2 Claims. (Cl. 206—17)

1 My present invention relates to improvements in holders for drills, and more particularly, to a case for holding a set of drills.

The objects of this invention are: first, to provide a case for holding drills in a row and in which the drills of a given set progressively increase in diameter from the smallest up to the largest; second, to provide a case for a set of drills from which, normally, they cannot be removed or fall out; third, to provide a case for a set of drills that is mounted for tilting movement from a closed position to an open position; fourth, to provide a case for holding a set of drills in a row with their upper end portions exposed for inspection and easy removal from the case; fifth, to provide a novel latch for a case for drills that is mounted for tilting movement from a closed position to an open position; sixth, to provide such a latch that normally holds the case closed and when actuated to release the case acts as a stop to limit the tilting movement thereof; and seventh, to provide such a latch which, when acting as a stop, may be actuated to lock the case in an open position.

Other objects of the invention will be apparent from the following description, reference being had to the accompanying drawings.

To the above end, generally stated, the invention consists of the novel devices and combination of devices hereinafter described and defined in the claims.

In the accompanying drawing, which illustrates the invention, like characters indicate like parts throughout the several views.

Referring to the drawings:

Fig. 1 is a front elevation of the improved case for drills, and also showing, diagrammatically by means of broken lines, a part of a set of drills in the case;

Fig. 2 is a right-hand end elevation of the case, as shown in Fig. 1;

Fig. 3 is a view corresponding to Fig. 2 with the exception that the case cover is shown in a partially open position by means of full lines and fully open by broken lines;

Fig. 4 is a view also corresponding to Fig. 2, with the exception that the case cover is in an open position and the case is in a tilted open position;

Fig. 5 is a fragmentary view partly in plan and partly in horizontal section taken on the irregular line 5—5 of Fig. 1; and

Fig. 6 is a view in vertical section taken on the line 6—6 of Fig. 1.

The numeral 6 indicates a rectilinear sheet metal case that is long and relatively narrow. Rigidly secured in the case 6 are upper and lower plates 7, each having a row of holes 8 that progressively increase in diameter from the left to the right. The two plates 7 and the holes 8 therein are duplicates and individually hold drills x resting on the bottom in closed positions. There is just enough working clearance between a drill x and individual aligned holes 8 therefor for an easy longitudinal movement of said drill therein. The drills x are only diagrammatically shown by means of broken lines. The depth of the case 6 is such that a considerable portion of the drills x project thereabove for inspection and easy removal of the drills from the case 6.

In order that approximately the same proportion of each drill x projects above the case 6, the top of said case is longitudinally inclined relative to the bottom thereof.

The case 6 has on its ends at the lower corners thereof a pair of axially aligned trunnions 9 that are mounted in holes in a pair of hinge lug 10 on a back member 11. The back member 11 is in the form of a flat sheet of metal and the hinged lugs 10 are formed by cutting and bending the two lower corners of said base perpendicular to the face thereof. These trunnions 9 support the case 6 for tilting movement from a closed position in which it lies flat against the back member 11 to an open position in which it is outwardly inclined relative to said back member.

To prevent the drills x from being removed from the case 6 or from falling out of the same when said case is closed, I provide a stationary cover member 12 therefor on the back member 11. This cover member 12 is formed by bending the upper longitudinal edge portion of the back member 11 outward over the case 6 perpendicular to the face of said back member. The cover member 12 is longitudinally inclined, at a sharper angle than the top of the case, so that it closely overlies the outer ends of the drills 6. When the case 6 is tilted into an open position, the upper end of the drills x are positioned outwardly of the cover member 12 and may be lifted from said case or replaced therein.

A novel latch 13 is provided for holding the case 6 either in a closed position or an open position and also acts as a stop for limiting the tilting movement of the case 6 from a closed position to an open position. This latch 13 includes a body member 14 attached to the back member 11 for a limited endwise sliding movement, by means of a pair of headed studs 15 which extend...
through elongated slots 16 in said body member. Said latch 13 further includes a latch plate 17 on the right-hand end member of the case 6 under the body member 14. Integral with the body member 14 is a perpendicular member 18 having in its lower end inner and outer notches 19 and 20, respectively. Forward of the outer notch 20 and integral with the member 18 is a depending stop finger 21. The upper end portion of the body member 14 is bent outwardly to afford a finger-piece 22. When the case 6 is closed, the same may be locked in this position by sliding the body member 14 downwardly to interlock the latch 19 with the latch plate 17.

To unlock the case 6 and permit the same to be opened, the body member 14 is raised to clear the latch plate 17 and at which time the stop 15 limit the lifting movement of said body member. The case 6 may be manually opened or it may be opened by a slight forward tilting movement of the case 6, thereby causing said case to swing forward into an open position, as shown in Fig. 3. As the case 6 swings to an open position, the latch plate 17 engages the stop finger 21 and thereby limits the opening movement of said case and holds the same in a forwardly tilted position from under the cover member 12. By depressing the body member 14, when the case 6 is held by the stop finger 21, the notch 20 will be interlocked with the latch plate 17 and thereby lock the case 6 in an open position. On the left-hand end of the case 6 is a finger-piece 23 by which said case may be opened or closed.

The case 6 may be attached to the inner side of the cover of a tool box, a wall or other support by means of screws 24, or the case 6 may be unattached to a support. The size of the drill in fractions and thousandths and any other necessary information may be pressed into the front member of the case directly in front of each drill.

A cover 25 is provided for the case 6 and the drills x, projecting thereabove. This cover 25, the back member 11 and the cover member 12 completely enclose the case 6 and the drills x except at the bottom of said case. The side members of the cover 25 are pivoted on the trunnions 9 and support said cover for swinging movement from a closed position as shown in Figs. 1 and 2 to an open position as shown by broken lines in Fig. 3 and full lines in Fig. 4. A spring finger 26 on the upper edge portion of the cover 25 engages the top of the cover member 12 and holds the cover 25 closed.

It will be understood that the invention described is capable of various modifications within the scope of the invention herein disclosed and claimed.

What I claim is:

1. The combination with a fixed back plate, of a drill case hinged to the back plate for outwardly tilting movement, a latch plate on the case, and a latch mounted on the back member for limited sliding movement and having a lock notch that interlocks with the latch plate to hold the case closed, said latch also having a stop finger for engagement with the latch plate, when the latch is actuated to release the case, for limiting the tilting movement of the case into an open position.

2. The structure defined in claim 1 in which the latch is provided with a second notch for interlocking engagement with the latch plate to lock the case in its open position.

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