

D. W. SHEPHERD.
CHALK HOLDER.
APPLICATION FILED JULY 1, 1909.

950,680.

Patented Mar. 1, 1910.

Fig. 1.

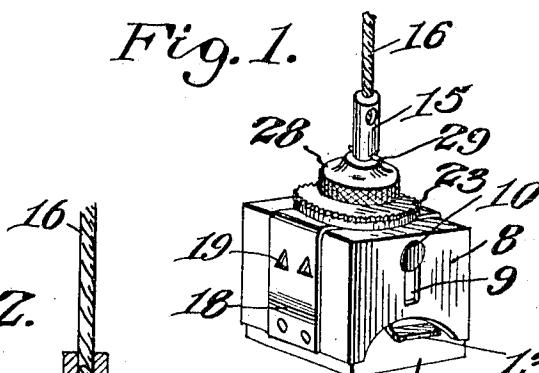


Fig. 2.

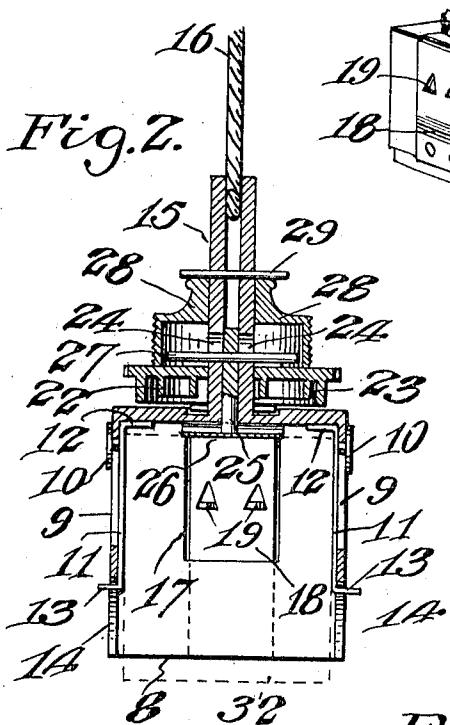


Fig. 3.

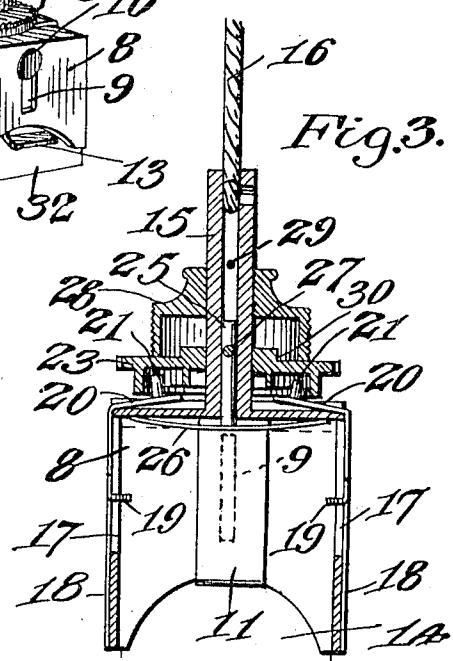


Fig. 6.

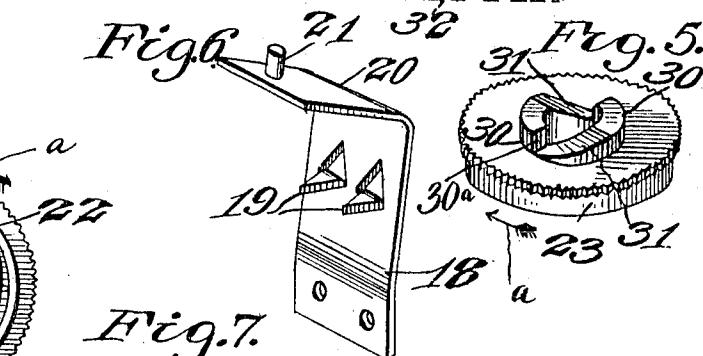


Fig. 4.

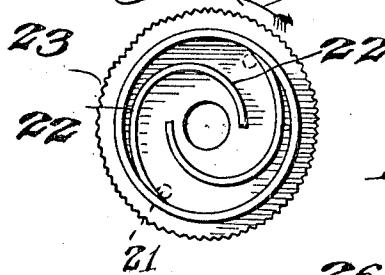
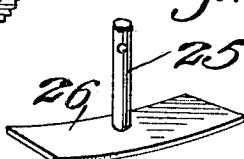


Fig. 7.



Witnesses:

Joe. P. Wahler.
E. M. Ricketts

By

Watson E. Coleman
Attorney

Inventor
D. W. Shepherd

UNITED STATES PATENT OFFICE.

DANIEL WILBERT SHEPHERD, OF RUPERT, IDAHO.

CHALK-HOLDER.

950,680.

Specification of Letters Patent.

Patented Mar. 1, 1910.

Application filed July 1, 1909. Serial No. 505,453.

To all whom it may concern:

Be it known that I, DANIEL W. SHEPHERD, a citizen of the United States, residing at Rupert, in the county of Lincoln and State of Idaho, have invented certain new and useful Improvements in Chalk-Holders, of which the following is a specification, reference being had to the accompanying drawings.

10 My invention is in the nature of a holder for chalk for billiard cues, the object of the invention being to provide a holder of the character usually suspended within reach of the player, in which means will be provided whereby the chalk will be locked in position 15 and may not be unlocked and removed until the chalk is used up.

The object of such a construction is to prevent the ready removal and loss of the chalk by the players and with this object in view the invention consists in the improved construction, arrangement and combination of parts hereinafter fully described and afterward specifically claimed.

25 I have illustrated an embodiment of my invention in the accompanying drawing, in which—

Figure 1 is a perspective view of my improved holder with a piece of chalk therein and part of the suspending cord being shown; Fig. 2 is a central transverse sectional view, on an enlarged scale; Fig. 3 is a similar sectional view on a plane at right angles to that of Fig. 2; Fig. 4 is a detail view of the bottom of the cam disk, detached; Fig. 5 is a detail perspective view of the top of the cam disk; Fig. 6 is a detail perspective view of one of the locking wings; and Fig. 7 is a detail perspective view of the 40 releasing spring and pin.

Referring specifically to the drawing 8 indicates the main body or box, which is provided on opposite sides with slots 9 through which project screws or pins 10 secured to 45 slides 11, inside of the box or body, having inwardly bent flanges 12 to their upper ends and outwardly bent flanges 13 at their lower ends, the flanges 13 being adapted to slide upwardly and downwardly in recesses 14 in 50 the lower edges of the sides of the box and forming finger pieces.

Rigidly secured to and in effect forming part of the box or body 8 is a central tube or standard 15 which is hollow from top to

bottom, the suspending cord 16 being secured 55 in its upper end.

In the sides of the body which lie at right angles to the sides containing the slots 9 heretofore described, are slots 17 and below these slots, locking wings 18 are secured to 60 the outside of the box. From these wings points 19 project inwardly through the slots 17 when the wings are in locked position as shown in Fig. 3. The upper ends of the wings 18 are bent inwardly, as at 20, in the 65 recesses in the top of the box or body 9 and these inwardly bent flanges of the wings are provided with upwardly projecting pins 21 adapted to enter between the spiral cams 22 on the bottom of the disk 23 mounted on the 70 standard 15 above the body. Above the disk 23 transverse vertically elongated slots 24 are formed in the standard 15 and a vertical rod 25, carrying at its bottom a slightly bowed spring 26, projects upward into the 75 hollow of the standard. A pin 27 passes transversely through the slots 24 and through a circular opening in the vertical rod 25.

Mounted on the standard 15 and bearing upon the top of the disk 23 is a cap 28 which 80 is held against sliding on said standard by means of a pin 29.

Upon the upper face of the disk 23 is erected a cam ring 30 provided with inclines 31 on opposite sides, as most clearly shown 85 in Fig. 5, upon which the pin 27 will engage when the disk 23 is turned. The periphery of the disk 23 and of the cap 28 is milled or otherwise roughened to facilitate turning.

When the pins 21 are engaged with the 90 outer portion of the spiral cams 22 as indicated in dotted lines in Fig. 4, the resiliency of the wings 18 will hold the points or spurs 19 in retracted position so that the chalk may be inserted in the open lower end of the 95 body holder. This chalk is indicated at 32 in full lines in Fig. 1, and in dotted lines in Figs. 2 and 3, and while it is here shown in the form of a cube it may, of course, be of other shape. After the chalk has been placed 100 in position the disk 23 is turned in the direction of the arrow *a* in Figs. 4 and 5, whereupon the spiral cams 22 will draw the pins 21 toward each other to move the wings 18 inwardly and consequently force the 105 points 19 into the chalk, thereby retaining the latter in the holder. When said disk 23 is rotated as just described, the transverse pin

27 will ride up the cam inclines 31, and after the points 19 have entered the chalk said pin 24 will drop into engagement with the abrupt shoulders 30^a on said cam ring 30 5 and will consequently lock the disk 23 against rotation until the spring 26 is forced upwardly or inwardly to move the rod 25 to such an extent as to elevate the transverse pin 27 out of engagement with the cam ring 10 30. Since the spring 26 is entirely inclosed by the body of the holder and the chalk, it can not be actuated until the chalk has been worn or bored through. The chalk will be held rigidly in this position until entirely 15 worn through, it being necessary to press the spring 26 and rod 25 inward and raise the pin 27 in the slot 24 of the standard 15, thus releasing the disk 23 so that it may be turned in the opposite direction from that indicated 20 by the arrow *a* in Figs. 4 and 5 to cause the spiral cams 22 to move the pins 21 outwardly and with them the wings 18, withdrawing the points 19 from the sides of the chalk left in the box. By pressing upon the flanges 13, 25 the slides 11 may be moved outwardly, the screws 10 moving in the slots 9, when the flanges 12 will engage in the rear of the chalk in the box and force the same out therefrom. If it becomes necessary or de- 30 sirable at any time to release the chalk from the box before it has been used sufficiently for the cue to wear a hole through the center, a hole may be bored through the center in order to press the spring 26 inward to re- 35 lease disk 23 in the manner before described to release the chalk.

While the embodiment of the invention above described is particularly adapted for holding a block of chalk in the form of a 40 cube, it will be understood that it may be adapted for holding a block or piece of chalk of any other shape.

Having thus described the invention, what is claimed is:

45 1. A chalk holder comprising a body to receive a piece of chalk, chalk-gripping means in the body, a rotary cam device for actuating said chalk-gripping means, and a locking means for said cam device, said locking means being inclosed so that it will be inaccessible for actuation except through the open end of the body.

50 2. A chalk holder comprising a body to receive a piece of chalk, chalk-gripping means in the body, a rotary cam device for actuating said chalk-gripping means, and a cam locking means for said actuating device.

55 3. A chalk holder comprising a body adapted to provide a cube of chalk, a low standard rigidly secured to and projecting centrally from the body and provided with elongated slots, locking means secured to the outside of the body and provided with projecting pins, a disk rotatable

upon the standard and provided with spiral 65 cams engaging said pins, a spring within the body, a rod projecting from the spring into the standard, a transverse pin passing through the elongated slots in the standard and an opening in the rod, and a cam ring 70 on the disk adapted to coöperate with the transverse pin when the disk is rotated.

4. A chalk holder comprising a body adapted to receive a cube of chalk, a hollow standard rigidly secured to and projecting 75 centrally from the body and provided with elongated slots, locking means secured to the outside of the body and provided with projecting pins, a disk rotatable upon the standard and provided with spiral cams engag- 80 ing said pins, a spring within the body, a rod projecting from the spring into the standard, a transverse pin passing through the elongated slots in the standard and an opening in the rod, a cam ring on the disk 85 adapted to coöperate with the transverse pin when the disk is rotated, a cap mounted on the standard and bearing upon the outer face of the cam disk, and a transverse pin passing through the standard and prevent- 90 ing the outward movement of the cap thereon.

5. A chalk holder comprising a body adapted to receive a piece of chalk, wings upon the body having spurs to engage the 95 chalk, and also having projecting pins, a rotatable member having spiral cams to engage and actuate said pins, and means for locking said member, said locking means being wholly inclosed so that it will be inac- 100 cessible for actuation except through the open end of the body.

6. A chalk holder comprising a body adapted to receive a piece of chalk, wings upon the body having spurs to engage the 105 chalk, and also having projecting pins, a rotatable member having spiral cams to engage and actuate said pin, said member being provided with an additional cam and a shoulder, and a spring actuated rod carrying a locking pin to co-act with said second cam and said shoulder, substantially as and for the purpose set forth.

7. A chalk holder comprising a body adapted to receive a piece of chalk, a tubular 115 standard carried by the body and provided with a slot, chalk-engaging and locking means carried by the body and provided with projecting pins, a disk rotatable on the standard and provided with spiral cams to 120 engage said pins, a slid able rod in said standard and projecting into the body, a spring for actuating said rod in one direction, a pin fixed to the rod and arranged in the slot in the standard, and a ring upon 125 said disk and provided with a cam and a shoulder to co-act with said pin.

8. A chalk holder comprising a body

adapted to receive a piece of chalk and having in its opposite sides longitudinal slots and recesses, slides within the body and having projections to engage a piece of chalk, and projections forming finger pieces to move in said recesses and guide pins carried by the slides and working in said slots.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

DANIEL WILBERT SHEPHERD.

Witnesses:

JOHN M. PEEBLES,
FRED. W. JONES.