(No Model.)

J. J. SULLIVAN.

POOL POCKET INDICATOR.

No. 563,628. Patented July 7, 1896.

Fig. 1.

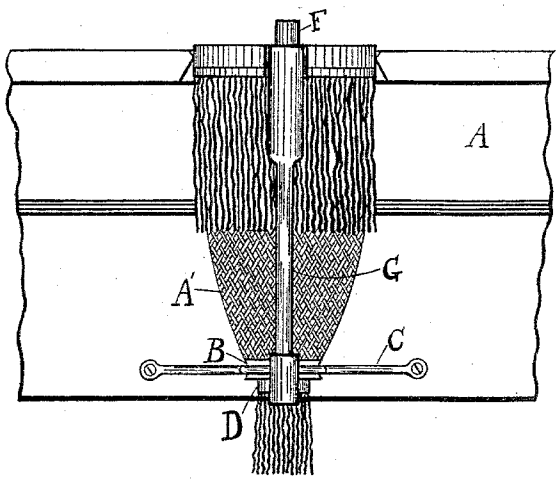


Fig. 2.

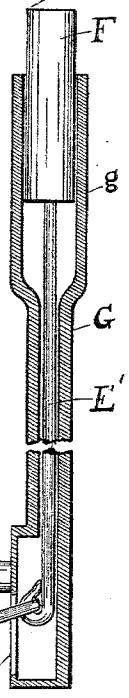


Fig. 3.

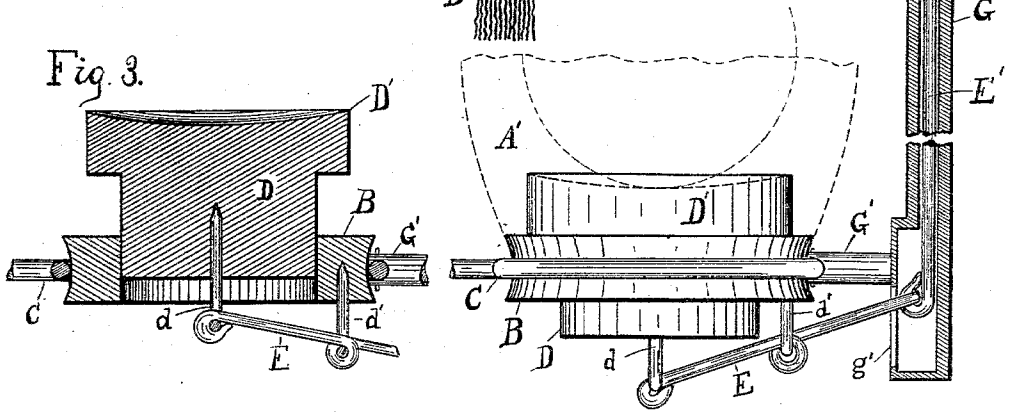


Fig. 4.

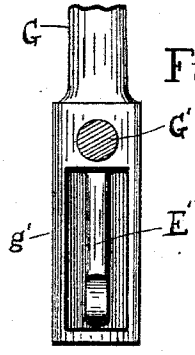
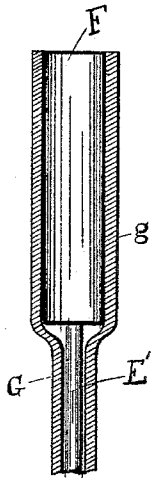


Fig. 5.



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UNITED STATES PATENT OFFICE.

JAMES J. SULLIVAN, OF NEW HAVEN, CONNECTICUT.

POOL-POCKET INDICATOR.

SPECIFICATION forming part of Letters Patent No. 563,628, dated July 7, 1896.

Application filed April 16, 1896. Serial No. 587,847. (No model.)

To all whom it may concern:

Be it known that I, JAMES J. SULLIVAN, a citizen of the United States, and a resident of the city and county of New Haven, in the State of Connecticut, have invented a new and useful Improvement in Pool-Pocket Signals, set forth and described in the following specification, taken in connection with the drawings, which form a part thereof, and in which—

Figure 1 is a front elevation of the invention. Fig. 2 is a side elevation, partly in section. Fig. 3 is a vertical section through the band and cylindrical block. Fig. 4 is a detail view of the lower end of the vertical tube. Fig. 5 is a vertical section of the upper end of the same.

In all figures similar letters of reference represent like parts.

This invention relates to signals for pool-table pockets and the like, and has for its object the production of a novel signal, simple in construction, and cheap in manufacture, whereby the player is notified when at a distance that one or more balls are in the pocket.

Referring to the drawings, A represents the table or board to which the pocket A′, for the reception of the balls, is attached. A circular band B, of wood, rubber, or other suitable material, is secured to the bottom edge of the pocket A′ in any well-known manner. A rod C passes around said band B, and the ends thereof are secured to the frame of the table A, as shown in Fig. 1, so as to hold the lower part of the pocket A′ rigid. A cylindrical block D, having an upper portion D′ of greater diameter, is adapted to have a vertical play in the interior of the band B in the bottom of the pocket A′. The upper surface of the block D is slightly concaved, as shown in Fig. 3. A horizontal lever E is secured to the bottom of the cylindrical block D and band B by means of staples *d* and *d′*.

A tube G of any suitable material, having an upper enlarged portion *g*, the top of which is flush with the top of the pocket A′, and an enlarged lower portion *g′*, slotted vertically to receive the end of the lever E, extends parallel to the length of the pocket A′. The upper end *g* is set into the rim forming the upper edge of the pocket A′ and secured thereto in any well-known manner, as shown in Fig. 1. The lower end of the tube G is secured to a horizontal tube G′, which is attached at its other end in any well-known manner to the rod C, Fig. 2. Within the upper portion *g* of the tube G is a cylindrical weighted signal F, colored so as to quickly attract the eye and of such length that when the lower end rests on the bottom of the enlarged portion *g*, the upper end will be even with the top thereof, Fig. 5.

A vertical rod E′ extends lengthwise through the tube G, its upper end being secured to or formed integral with the signal F and its lower end being connected to the end of lever E in the lower enlarged portion *g′*. The lever E and rod E′ are herein shown of wire and their connection is made by bending the ends of the wires about each other. The lever E is also bent about the staples *d* and *d′*, thus allowing a limited play of the lever in its movements and prevents unnecessary strain on the lever E and rod E′.

In operation when the ball rolls into the pocket the cylindrical block D is forced downward until the upper portion D′, being of larger diameter than the band B, rests thereon and prevents further downward movement. The forcing down of the block D causes the end of the lever E to be depressed, thus raising the other end of said lever, which, being attached to the rod E′, forces said rod upward, and the signal secured thereto, Fig. 2. The upper end of the signal F, being even with the top of the tube G, which is flush with the top of the pocket A′ when said signal is raised, will show above the pocket, and designate that a ball is within said pocket. When the ball is removed from the pocket A′, the signal F, being heavier than the block D, forces the rod E′, lever E, and block D into their original position. (See Fig. 3.)

Having now described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A pool-pocket signal, consisting of a block capable of a vertical movement in the bottom of the pocket, and a weighted signal connected to said block by a lever so that said signal will be raised when said block is depressed, substantially as described.

2. A pool-pocket signal, consisting of a vertical tube extending to the top of the pocket; a weighted signal in said tube; a block capable of a vertical movement in the bottom of the pocket; a lever connecting said signal and block, said signal being of such increased weight over said block, that said block will be normally raised in said pocket, substantially as described.

3. A pool-pocket signal consisting of a block, capable of a vertical movement in the bottom of the pocket; a lever attached to said block and fulcrumed to the bottom of the pocket; a vertical tube extending to the top of the pocket; a weighted signal and rod attached thereto, in said tube, said rod being secured at its lower end to said lever, substantially as described.

4. In a pool-pocket signal, the combination with the table, of the pocket having a band secured in the bottom thereof; means for securing said band rigidly to the table; a vertical tube attached at its lower end to said band, and extending to the top of the pocket; a weighted signal in said tube, having a rod attached to and depending therefrom; a block having a vertical play in said band, and a lever fulcrumed to said band, and having its ends connected to said depending rod or block, substantially as described.

5. In a pool-pocket signal, the combination with the pocket having a band secured in the bottom thereof; of a vertical tube extending to the top of said pocket; said tube having an enlarged portion at its upper end; a weighted signal adapted to slide in said enlarged portion; a block having an enlarged upper portion, the lower part being capable of a vertical movement in said band; and a lever fulcrumed to said band, and connected to said signal and block, substantially as described.

In witness whereof I have hereunto set my hand, at New Haven, in the county of New Haven, State of Connecticut, this 14th day of April, A. D. 1896.

JAMES J. SULLIVAN.

Witnesses:
F. PHILIP FARNSWORTH,
SAMUEL H. FISHER.