

(No Model.)

2 Sheets—Sheet 1.

E. H. HYDE.
GAME APPARATUS.

No. 534,476.

Patented Feb. 19, 1895.

Fig. 1.

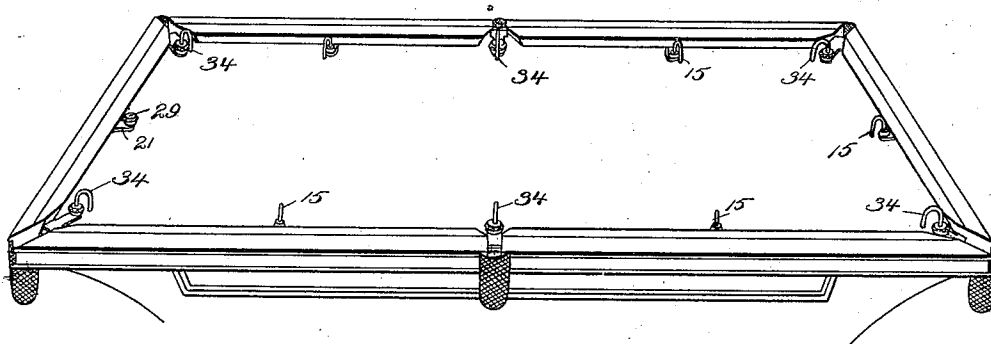


Fig. 2.

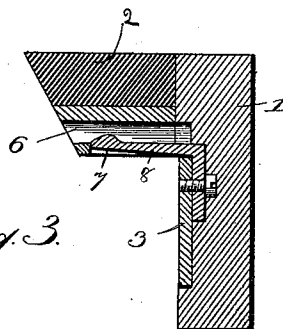
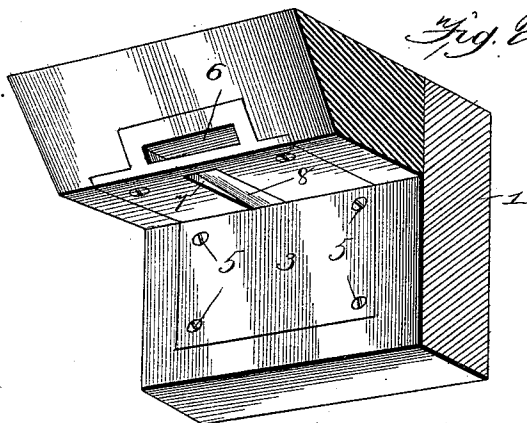


Fig. 3.

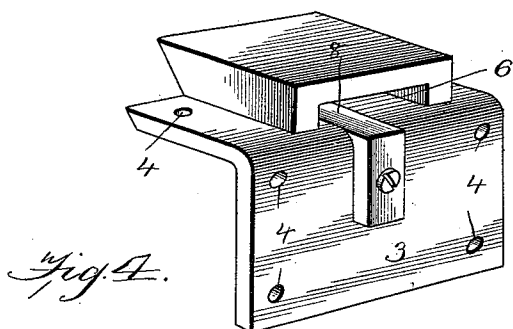


Fig. 4.

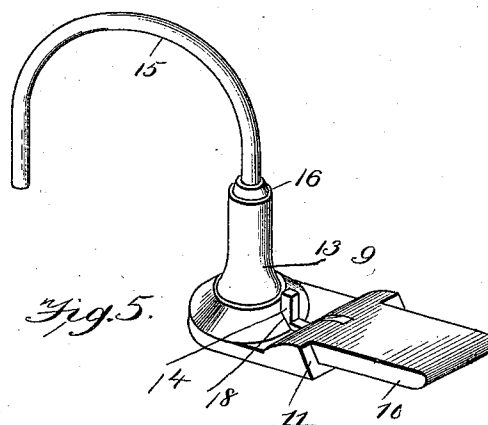


Fig. 5.

Witnesses

John Shaw.
W. S. Duwall.

Inventor

Edward H. Hyde.
By *W. S. Duwall*, Attorneys,
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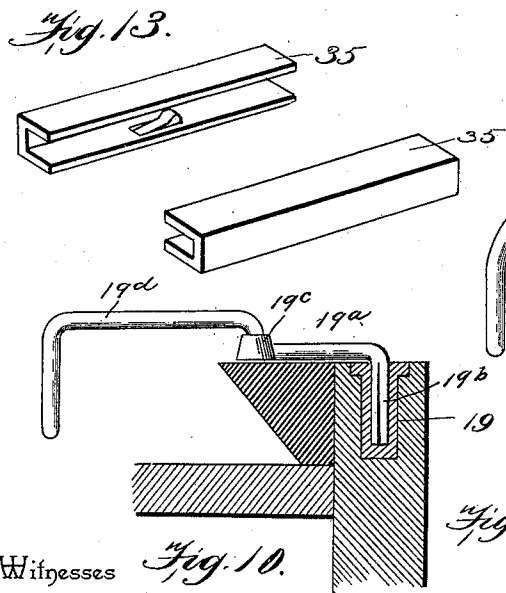
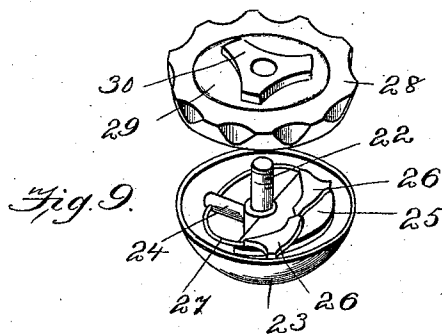
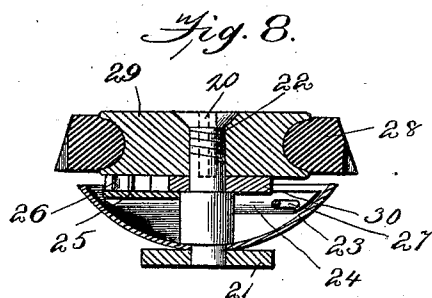
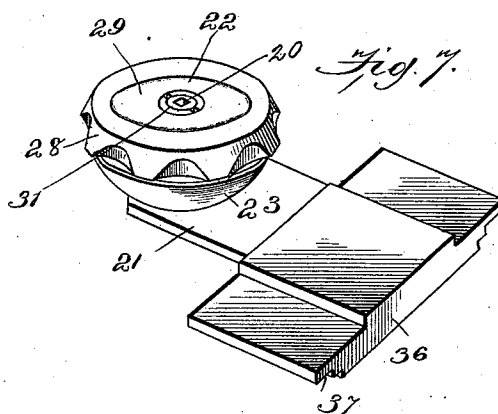
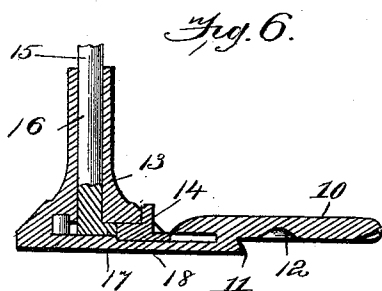
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Witnesses

John C. Shant.
W. S. Duwall.

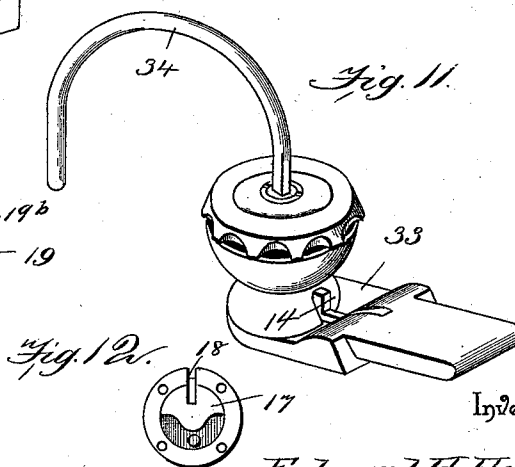
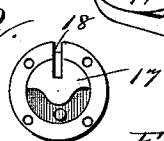


Fig. 12.



Inventor

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UNITED STATES PATENT OFFICE.

EDWARD H. HYDE, OF LANCASTER, WISCONSIN.

GAME APPARATUS.

SPECIFICATION forming part of Letters Patent No. 534,476, dated February 19, 1895.

Application filed June 7, 1893. Renewed May 28, 1894. Serial No. 512,730. (No model.)

To all whom it may concern:

Be it known that I, EDWARD H. HYDE, a citizen of the United States, residing at Lancaster, in the county of Grant and State of Wisconsin, have invented a new and useful Game Apparatus, of which the following is a specification.

My invention has relation to certain attachments for billiard or pool-tables for playing billiard or pool-croquet, the objects in view being to provide wickets or their equivalent devices for carrying on the game; and means for removably and conveniently securing the wickets or equivalent devices upon the side-rails of the table, and in such manner as when removed the sockets for their reception will not offer obstruction to or interfere with the ordinary games of billiards and pool.

With these and other objects in view the invention consists in certain features of construction hereinafter specified and particularly pointed out in the claims.

Referring to the drawings:—Figure 1 is a perspective view of a pool-table, the same being provided with the attachments constructed in accordance with my invention. Fig. 2 is a perspective view of the inner portion of the side-rail showing the preferred form of socket in position. Fig. 3 is a vertical transverse sectional view through the side-rail. Fig. 4 is a detail in perspective of the socket. Fig. 5 is a detail in perspective of the simplest form of wicket and its supporting shank. Fig. 6 is a vertical longitudinal sectional view through the shank. Fig. 7 is a detail in perspective of a bell-attachment. Fig. 8 is a vertical longitudinal sectional view of the bell-attachment. Fig. 9 is a perspective view of the bell, the parts being separated partially and the disk inverted. Fig. 10 is a vertical transverse sectional view through the rail illustrating a modification of socket, the same being located upon the upper side of the rail. Fig. 11 is a perspective view in detail of a combined wicket and bell-attachment. Fig. 12 is a bottom plan view of the wicket shown in Fig. 5. Fig. 13 is a detail of the guide for the pocket attachments.

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

1 designates the rail of a billiard or pool-table, in the present instance, the latter, and the same is provided with the usual beveled or under-cut elastic cushion 2. The cushions 2, as well as the under and inner sides of the rails, are provided with a shallow L-shaped recess between the pockets, and seated or let therein is an inverted L-shaped metal plate 3 having screw-holes 4 through which screws 5 are passed into the inner and under sides of the rail and cushion. The upper or horizontal branch of the plate is provided with a superimposed socket 6, and the bottom of the socket has formed therein a slot 7, in which a spring-detent 8, is located. The front edge of the socket is beveled in the same plane as the under-cut side of the cushion, and hence the impinging-edge or that edge of the cushion against which the balls strike is in advance of the metal socket, so that the balls cannot contact therewith. Thus the sockets may be located in the rails of the table without chance of jeopardizing the balls or in any way interfering with the games of billiards or pool or any of their various modifications.

Referring to Figs. 5 and 6, 9 designates a supporting shank, the same having its inner end so shaped as to take removably in the socket for which purpose said rear end is reduced to form a tenon 10. By the production of the tenon inclined shoulders 11, are formed at the beginning of the reduction, the said shoulders fitting snugly against and conforming to the beveled outer face of the socket. The under side of the tenon of the shank is provided with a countersink 12, and the same is adapted to be engaged by the spring-detent located in the socket before mentioned. The rear edge of the shank is beveled so as to facilitate the entrance of the tenon of the shank into the socket and a depression of the detent thereby. The shank is sufficiently long to extend beyond the vertical line coincident with the inner edge of the cushion, and supports in the present instance a vertical bearing-stud 13 the same having a flared base open at its rear side and having mounted in said opening an L-shaped locking-pin 14 adapted to be reciprocated into and out of the stud.

15 designates an inverted U-shaped wicket, one leg of which is shaped to form a spindle 16 and extends below the plane of the op-

posite or companion leg. This spindle is swiveled in the stud and is provided at its lower end with a half-disk 17 the opposite edges of which contacting with the stop-pin limits the movement of the wicket to a half circle so that it cannot go back sufficiently far to contact with the point of impingement or striking edge of the cushion adjacent to which it is located. A ward or notch 18 is formed midway the cut-away portion of the disk, and into this may be shot the locking-pin whereby the wicket will be held rigid and at a right angle to the cushion.

It will be obvious that various constructions of wickets and their shanks, together with means for fastening the two together, will readily suggest themselves. For instance, I may provide the upper side of the rail at suitable points with metal sockets 19, square in cross-section, and removably seat therein inverted L-shaped arms 19^a provided at their outer ends with squared shanks 19^b fitting the socket, and at their inner ends with eyes 19^c located immediately back of the impinging edges of the cushions. These eyes support in a swiveled manner the wickets 19^d that extend over the table.

Referring to Figs. 7, 8 and 9—21 designates the shank similar to that heretofore described upon which the wickets are mounted in the first instance, and from this shank there rises a threaded stud 22, the same having secured thereon an inverted bell 23, and within the bell a radial arm 24, opposite which there is secured a table or rest 25. A pair of hammers 26 rest upon the table and are secured to spring-hammer rods or arms 27 that extend from the arm. A rubber disk 28 is mounted upon a metal disk 29, the said rubber disk having a scalloped periphery and the metal disk a central bore which takes over the upper end of the stud. Upon the under side of the disk a triangular cam 30 is located, and a nut 31 serves to hold the disk upon the stud. The disks revolve upon the stud and are caused to so revolve by the impact of the billiard or pool ball thereagainst the scallops serving to deflect the ball, and likewise causing the same to strike the disk or exert a momentum upon the disk in a tangential line, whereby the disk is given a partial rotation, and its cam operating upon the bell-hammers will cause them to vibrate and sound the bell. The upper end of the stud is in the present instance provided with a square socket 20 into which, as shown in Fig. 11, the square shank of a wicket 34 may be removably inserted. This combination bell and wicket may be used at the corner and side-pockets of the table, the bell being sounded at the making of the wicket. For the accommodation of these attachments at the pockets, the opposite edges thereof at the entrance are provided with opposite metal guides 35, in which is seated a bridge-piece or plate 36 (shown in Fig. 7), the latter having a socket 37 for the inner end of the shank.

Various games may be arranged by the use of these wickets or bells or combinations of bells and wickets.

It is obvious that various changes in the construction and details will readily suggest themselves, and I do not limit the invention therefore to such as I have herein shown and described, but hold that I may vary the same to any extent and degree within the scope of the skilled mechanic; and also the game may be changed, employing all or part of the attachments.

One illustration of the game that may be played I have illustrated in Fig. 1 of the drawings. In this game the object is to pass successively through the several wickets, and if desired to cushion-carom upon the opponent's ball between each wicket, and finally to sound the bell at the end of the table, which is simply that of the construction illustrated in Figs. 7 to 11, the wicket being omitted as in Fig. 8. Having described my invention, what I claim is—

1. The combination with the rail of a billiard or pool table, and a socket seated flush within the rail, of a shank removably seated in the socket, locking means for securing the shank within the socket, and a wicket rigidly secured to the outer end of the shank and extending over the table, substantially as specified.

2. The combination with the rail of a billiard or pool table, and a socket seated flush within the rail, of a shank removably seated in the socket and held from movement, a swiveled wicket mounted on the shank and extending over the table, and means carried by the shank for locking the wicket rigidly, substantially as specified.

3. The combination with the rail of a billiard or pool table and a socket let therein, of a shank removably seated in the socket, a hollow stud rising from the shank and provided with an opening, a locking-pin slidably mounted in the opening, and a wicket having one leg swiveled in the stud and provided with a half-disk the flat side of which is provided with a ward to receive the pin, substantially as specified.

4. The combination with the rail of a billiard or pool table and a socket located therein and provided with a spring detent, of a shank beveled to facilitate its entrance into the socket and having a countersink for engaging with the detent, and a wicket located on the shank, substantially as specified.

5. The combination with the rail of a billiard or pool table having the usual inner under-cut side, and the L-shaped plate let therein and provided upon its upper side with a socket, the front edge of which is beveled in conformity with that of the cushion of the rail, of the shank reduced at its inner end to form a tenon for taking removably into the socket, and a wicket or its equivalent mounted on the outer end of the shank, substantially as specified.

6. The combination with the rail of a billiard or pool table and its socket, of a shank removably mounted in the socket, a wicket located on the shank, and a bell rigidly supported on the inner leg of the wicket adjacent to the rail, substantially as specified.

7. The combination with the socket adapted to be seated in the rail of a billiard or pool-table, of a shank therefor, a stud extending up from the shank, an inverted bell thereon, a hammer, and a cushion disk mounted rotatably upon the stud and adapted to operate the hammer, substantially as specified.

8. The combination with the socket adapted to be seated in the rail of a billiard or pool-table, of a shank therefor, a stud extending up from the shank, an inverted bell thereon, a hammer, a post extending from the stud, spring arms extending therefrom, hammers attached thereto, a hammer supporting table extending from the stud, and a cushion disk mounted rotatably upon the stud and adapted to operate the hammer, substantially as specified.

9. The combination with the socket adapted to be seated in the rail of a billiard or pool-table, of a shank therefor, a stud extending up from the shank, an inverted bell thereon, a hammer, a cushion disk mounted rotatably upon the stud and adapted to operate the hammer, a socket in the upper end of the stud, and a wicket seated therein, substantially as specified.

10. The combination with the rails separated to form the pocket, guides let into their sides, and a bridge piece removably seated therein, of the shank seated in a socket in the bridge piece, and a wicket supported thereby, substantially as specified.

11. The combination with the rails separated to form the pocket, guides let into their sides, and a bridge piece removably seated therein, of the shank seated in a socket in the bridge piece, a wicket supported thereby, and a bell mounted on the leg of the wicket, a swiveled disk thereabove, and a hammer operated by the disk to sound the bell, substantially as specified.

12. The socket adapted to be secured to the rail of a billiard or pool table, a shank removably seated in the socket, an automatic catch for locking the shank in the socket, and a wicket or the like carried by the shank, as set forth.

13. In combination with the rail of a billiard or pool table and its cushion, a socket seated flush in the front side of the rail and the under side of the cushion, the outer end of the socket being beveled to agree with the beveled wall of the cushion, a shank fitted in the socket, and the wicket or the like carried by the shank, substantially as described.

14. In combination with the rail of a billiard or pool table and its cushion, a socket seated flush in the front side of the rail and the under side of the cushion, a shank fitted in the socket, and the wicket or the like carried by the shank, substantially as described.

15. The combination with a game table, of an arched wicket having one of its terminals swiveled thereon, and a catch or bolt engaging the swiveled end of the wicket for holding the same from movement, substantially as specified.

16. The combination with a game-table, of a support arranged thereon, a bell carried by the support, and a sounding mechanism for the bell arranged on the support and comprising a cushion-disk adapted to be rotated by the impact of a ball, substantially as specified.

17. The combination with a game-table, of a support arranged thereon, a wicket carried by the support and having one terminal secured thereto, a bell located on the terminal, and a sounding mechanism for the bell located on the said terminal and comprising a cushion-disk adapted to be rotated by the impact of a ball, substantially as specified.

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

EDWARD H. HYDE.

Witnesses:

PARKE DUDLEY,
JOHN JEIDE.