

J. SCHLAG.
BOWLING PIN,
APPLICATION FILED FEB. 12, 1913.

1,088,937.

Patented Mar. 3, 1914.

Fig. 1

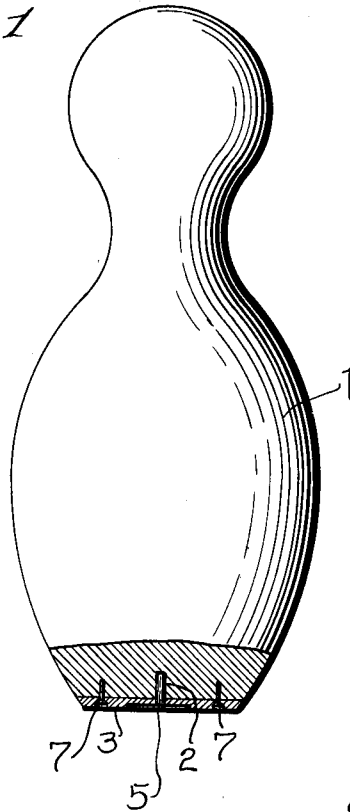


Fig. 2

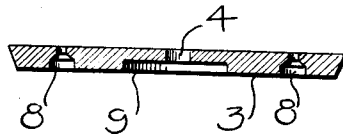
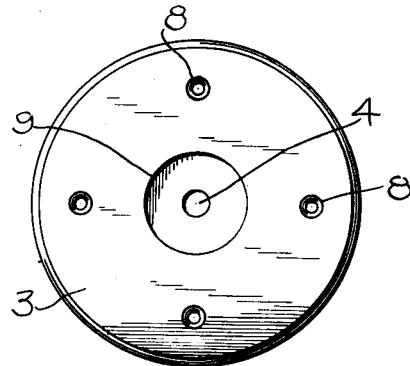


Fig. 3



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UNITED STATES PATENT OFFICE.

JOSEPH SCHLAG, OF CLEVELAND, OHIO.

BOWLING-PIN.

1,088,937.

Specification of Letters Patent.

Patented Mar. 3, 1914.

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To all whom it may concern:

Be it known that I, JOSEPH SCHLAG, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Bowling-Pins, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in ten pins which are used in connection with the game of bowling.

The greatest objection to the pins in use at present, is that the bottoms thereof become quickly chipped and broken owing to their contact with the metallic disks seated in the floor of bowling alleys, and when the bottoms of the pins are chipped and broken, they cannot be set up in vertical positions, and are therefore no longer fit for use.

An object of my invention is to obviate this objection and this object is attained by securing a disk of indurated fiber to the bottoms of the pin, the disk being readily removable, so that when it becomes worn out, it may be quickly removed and a new one secured to the pin.

Another object of this invention is the provision of a bowling pin which is provided with a central recess in the bottom thereof, and a disk of fiber or other indurated material which is formed with a central opening adapted to register with the recess in the bottom of the pin, so that a positioning stud may be passed through the opening in the disk into the recess to maintain the disk in its proper position while the fastening devices which secure the disk to the pin are being placed in position.

With these and other objects in view, my invention consists in the novel construction and arrangement of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawing, in which,

Figure 1 is a side elevation of a bowling pin showing the disk applied thereto, the disk and the lower end of the pin being in section. Fig. 2 is a section of the disk removed from the pin; and Fig. 3 is a bottom plan view of the disk.

Referring more particularly to the drawing, the numeral 1 designates a bowling pin which is of the usual contour, the pin being provided in its bottom face with a central

recess 2. An annular disk 3 which is of the same diameter, as the bottom of the pin, and which is preferably constructed of indurated fiber, is formed with a central opening 4 which is adapted to register with the recess 2, whereby a stud 5 may be passed through the opening 4 into the recess 2 to maintain the periphery of the disk in alinement with the lower edge of the pin. The walls of the opening 4 are unobstructed as is the periphery of the stud 5 whereby it will be observed that such stud 5 is freely insertible through the opening 4. The disk 3 is formed with a series of openings 6 through which screws 7 or other suitable fastening devices, are adapted to be passed into the bottom of the pin to secure the disk thereto. The screws 7 are countersunk as at 8, whereby the disk will present a flat, smooth surface to the floor of the bowling alley, so that the pin will be vertically disposed with relation to the floor. If desired, a central annular recess 9 may be formed in the lower face of the disk to reduce the bearing surface of the pin.

In the practical use of my device, the disk is arranged on the bottom of the pin so that the opening 4 registers with the recess 2 in the pin, and the stud 5 is passed through the opening 4 into engagement with the recess, whereupon the screws 7 are turned into the bottom of the pin and the device is ready for use. When the disk becomes worn out, the screws are removed from the bottom of the pin and the disk, and a new disk is secured to the pin. When the device is used in connection with new pins, the stud 5 may be formed integral with the pin to project into the opening 4 in the disk, to steady the fibers of the disk. When the disk is applied to an old pin, the recess 2 may be formed in the pin and the stud secured therein by glue or other fastening means. It will be seen in the drawing that the lower end of the stud 5 extends only to the inner face of the recess 9, so that when the disk wears down, the stud will not project therefrom and form an uneven bearing surface for the pin. A pin constructed in accordance with my invention will be in condition for use considerably longer than the pins in use at the present time, as the disks may be cheaply manufactured and it will only be necessary to change the pins when they are battered completely out of shape.

Having thus fully described my invention; what I desire to claim and secure by Letters Patent is:—

5 In combination with a bowling pin having a stud projecting from its base at the axial center thereof, of a bearing plate adapted to lie snugly against such base and being provided with an aperture through which the stud of the pin is adapted to be
10 freely inserted, the walls of the opening and the periphery of the pin being unobstructed, the outer face of the plate immediately sur-

rounding the opening being recessed, the stud of the pin being of such a length as to terminate at substantially the junction of 15 the opening of the plate with the recess thereof.

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

JOSEPH SCHLAG.

Witnesses:

JOE VONES,
JOE MLCKOVSKY.