

(No Model.)

F. G. DOKKENWADEL.
BOWLING BALL.

No. 531,103.

Patented Dec. 18, 1894.

FIG. 1.

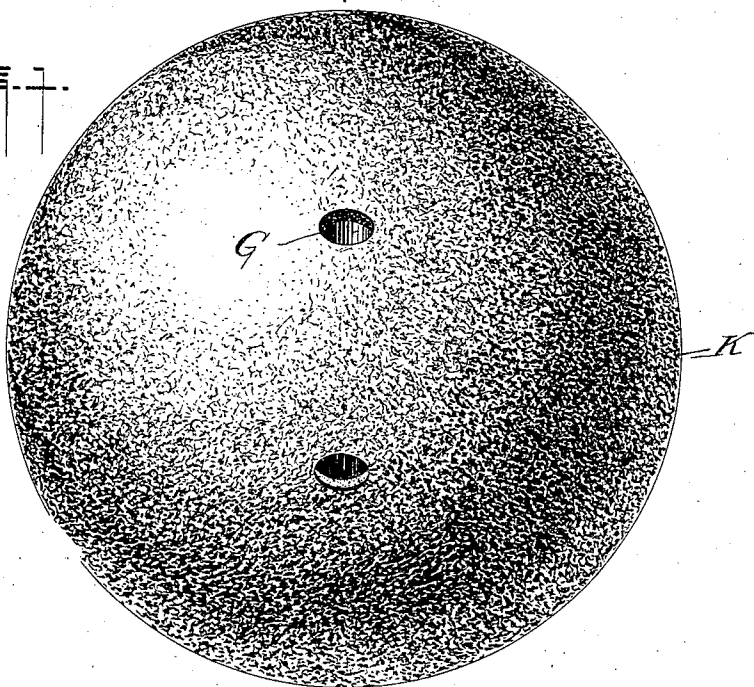
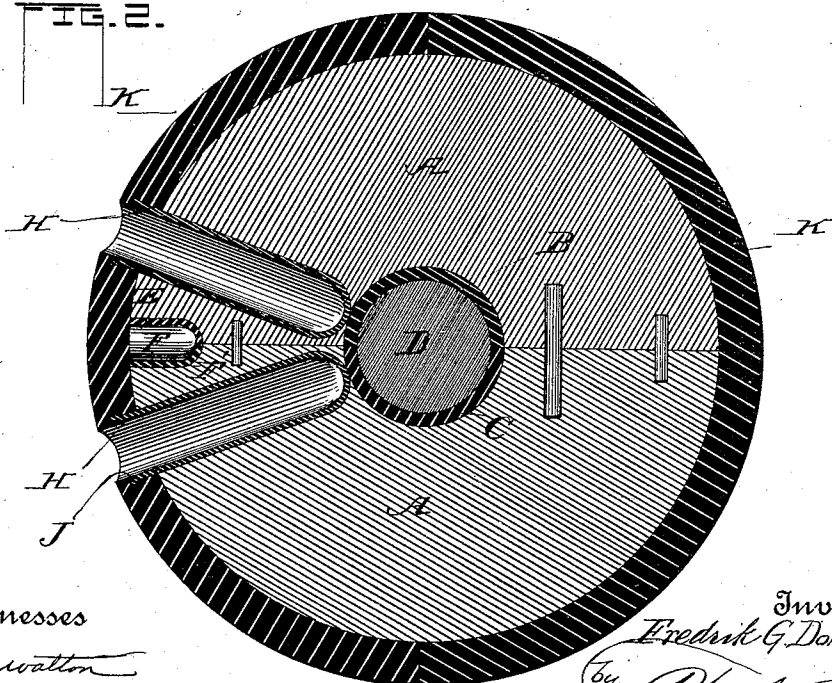


FIG. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

FREDRIK G. DOKKENWADEL, OF UNION CITY, INDIANA.

BOWLING-BALL.

SPECIFICATION forming part of Letters Patent No. 531,103, dated December 18, 1894.

Application filed March 29, 1894. Serial No. 505,562. (No model.)

To all whom it may concern:

Be it known that I, FREDRIK G. DOKKENWADEL, a citizen of the United States of America, residing at Union City, in the county of Randolph and State of Indiana, have invented certain new and useful Improvements in Bowling-Balls, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in bowling balls, or as they are more commonly called "ten pin balls," and the objects of my invention are the provision of a bowling ball which will be noiseless; which will not damage the pins or be damaged by contact therewith; and which will be simple, durable and comparatively inexpensive in construction.

To attain the desired objects the invention consists of a bowling ball comprising an inner hard core, weights within the core and a flexible or elastic covering for the core.

The invention also consists of a bowling ball composed of a section core; weights within the same; suitable finger and thumb sockets and a sectional flexible or elastic covering on the core.

The invention also consists in certain details of construction and combination of parts whereby an efficient and thoroughly practical bowling ball is provided.

Figure 1 represents a side elevation of my novel and improved bowling ball and Fig. 2 represents a vertical sectional view thereof.

My bowling ball consists of the core made of two semi-spherical sections A A, having central cavities B B, lined with spherical cushion C and receiving the weight D, the cavities E, forming a cylindrical socket to receive weight F and covered by cushion F', and each section is formed with inclined finger and thumb sockets G, receiving metal or leather or vulcanized thimbles or linings H, provided with flaring mouth J, to secure the linings or thimbles to the rubber or elastic covering composed of the two sections K K, secured in any manner.

The hard core sections are made of wood or other suitable material and secured together in any manner, in this instance a dowel and socket connection being employed.

It will be noted that the ball is given the proper weight and is easily handled and that

the balls are entirely free from noise and cannot cause any damage owing to the elastic covering enabling the game to be played in or outdoors and adding much interest and pleasure to the players.

The purpose of the cushions or elastic linings for the central and side weights is to prevent them from jarring against the core and straining the flexible covering which is a very important feature as the jar or shock in time would injure or possibly detach the cover as said cover is sectional and also the core is sectional and the hard jarring would in time be likely to loosen the parts of the ball if the weights were not cushioned; also the rubber forms a soft cushion or seat for the weights and prevents undue play. A further purpose of the side weights F is to properly balance the ball by compensating for the material taken out by the finger and thumb sockets, which is also important and necessary.

The advantages gained by constructing the ball in sections are many and among them may be named the following: The balls when made in sections can be put together with the grain of the wood crossed which will prevent contraction or expansion; also the sections can be made of the exact weight and a perfectly balanced ball provided; also by making the ball in sections and placing the weight in the center a small ball can be made of any desired weight and avoid the present defect of having to make the ball too large to handle; also the weights perfectly balance the ball and it will roll with more certainty than heretofore; also a ball of large size but of light wood can be balanced properly by the use of the weights and thus produce a ball which will be large in size but comparatively light and easy to handle.

By making the covering in sections the ball can be properly covered and the sections weigh exactly the same and the central cushions hold the balls in the proper position under all circumstances.

I claim—

1. A bowling ball consisting of the core having the central sockets and the side sockets, elastic linings for said sockets, weights fitting in the elastic linings of the sockets, and an elastic outer covering on the core, said side sockets being arranged on only one side of the

core and formed in the abutting faces of the sections of the core.

2. A bowling ball consisting of the core having the finger and thumb sockets, the elastic covering or jacket on the core, and the sleeves or ferrules fitting in said sockets and having their outer ends engaging the covering.

3. A bowling ball, consisting of the sectional core having the central cavities, the elastic lining or cushion for said cavities, the weight seated in the cushion, and the outer covering on the core.

4. A bowling ball, consisting of the core, the weight or weights within the core, the sockets in the core, the lining for said sockets and the elastic covering on the core.

5. A bowling ball consisting of the hard core

provided with a weight and having the finger and thumb sockets, the elastic covering or jacket on the core, and the sleeves or ferrules fitting in said sockets and having their outer ends engaging the covering.

6. A bowling ball consisting of the core having the central and side sockets or cavities, elastic linings for said cavities, weights closely fitting in the linings and an elastic outer covering on the core.

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

FREDRIK G. DOKKENWADEL.

Witnesses:

EZEKIEL CLOUGH,
GEO. WELLS SMITH.