May 25, 1926.

1,585,857

E. HEDENSKOOG

BOWLING PIN

Filed March 8, 1923

Fig-1

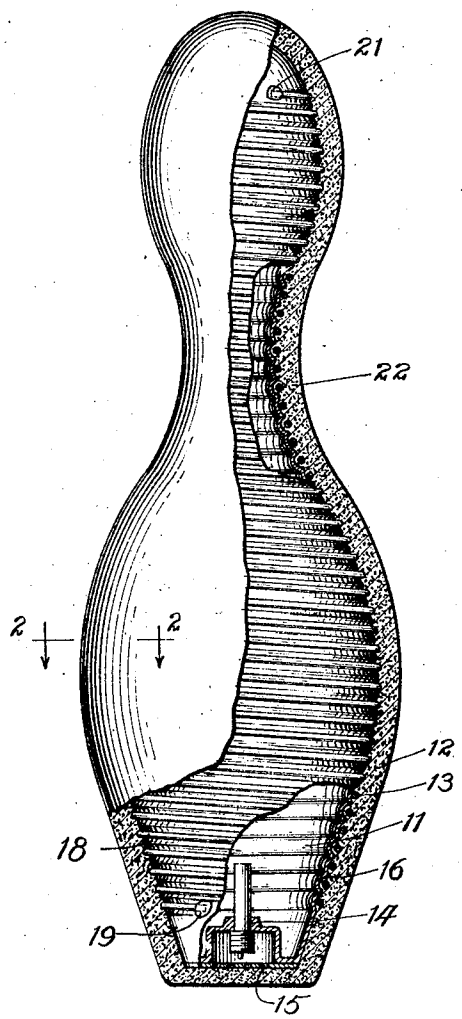


Fig-2

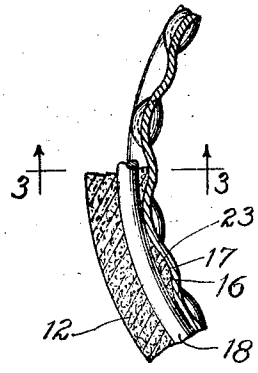
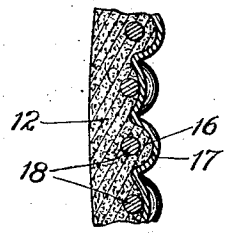


Fig-3



Inventor:-
Ernest Hedenskoog
By:- Munday, Clarke & Carpenter
Attys.

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UNITED STATES PATENT OFFICE.

ERNEST HEDENSKOOG, OF MUSKEGON, MICHIGAN.

BOWLING PIN.

Application filed March 8, 1923. Serial No. 623,585.

This invention relates in general to bowling pins and has for its object broadly the provision of a bowling pin primarily of composition, which will be more strong and durable in service than the ordinary wooden bowling pin, which will have the proper weight and which may be economically produced.

Another important object of the invention is the provision of a bowling pin of improved appearance.

I am aware that prior to my invention effort has been made to provide a bowling pin with an outer covering of celluloid but this has been found impractical because of the circumstance that the celluloid could not be made to adhere to or set in tight engagement with the inner body. My invention has for a further important object the provision of means for holding a celluloid outer covering or body to an inner body or core of any character.

Another important object of the invention is the reinforcement of the bowling pin against the shocks and jars of service whether the bowling pins be merely a wooden pin covered with celluloid or other material or be constructed without the use of wood at all.

Other objects and advantages of the invention will be apparent as it is better understood from the following description, which taken in connection with the accompanying drawings, discloses a preferred embodiment thereof.

Referring to the drawing,

Figure 1 is a side elevation of a bowling pin embodying my invention, parts being broken away and shown in section to disclose certain internal features of construction;

Fig. 2 is a section taken substantially on the line 2—2 of Figure 1; and

Fig. 3 is a section taken substantially on the line 3—3 of Fig. 2.

The bowling pin shown on the drawing consists primarily of an inner body 11 and outer body 12 and a wire connection 13 therebetween. In the present instance it is intended that the inner body shall be filled with compressed air in accordance with my Patent No. 1,519,835, issued December 16, 1924, although it will be manifest that from certain aspects the invention has other valuable application. The inner body in the present instance may be constructed of sheet metal of proper thickness to give with the other added parts the desired weight to the pin. At the bottom a valve 14 is provided to permit the introduction of the compressed air. The entrance to the valve being permanently closed by a plate 15 during the construction of the pin.

The inner body 11 is preferably provided with a spiral recess 16 extending from near the bottom to near the top. The bottom of this recess is depressed at intervals at 17. A piece of wire, preferably piano wire 18, is soldered at one end at 19 and is wrapped tightly around the pin body in the groove and reaches in this wrapping to almost the top where the other end is soldered at 21. After the wire is in place an outer body 22 of celluloid or other composition is molded about the inner shell or body and its wrapping. This molded composition extends about the wire and under it, as indicated at 23, in the depressed parts of the recesses. The wire being wrapped tightly around the shell reinforces it against the pressure of the compressed air and also serves to tightly bind the celluloid or other composition to the entire surface of the pin or at least to such parts of said surface as are by their configuration or location likely to become separated.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description, and it will be apparent that various changes may be made in the form, construction and arrangement of the parts without departing from the spirit and scope of the invention or sacrificing all of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

I claim:

1. A bowling pin, comprising, a hollow body, a portion of said body being grooved, a wire wrapped in said groove and secured to the body at its opposite ends, means for admitting and holding compressed air in said body, and an outer body molded about said first-mentioned body.

2. A bowling pin, comprising, a hollow body, a portion of said body being grooved, a reinforcing means in said groove and secured to the body at its opposite ends, means for admitting and holding compressed air in said body, and an outer body molded about said first-mentioned body.

3. A bowling pin, comprising, a hollow body, a portion of said body being spirally

grooved, a wire wrapped in said groove and secured to the body at its opposite ends, means for admitting and holding compressed air in said body, and an outer body molded about said first-mentioned body.

4. A bowling pin, comprising, a hollow body having a circumferential groove therein, a wire wrapped in said groove and secured to the body at its opposite ends, means for admitting and holding compressed air in said body, and an outer body molded about said first-mentioned body.

5. A bowling pin, comprising, a hollow body having a circumferential groove therein of irregular depth, a wire disposed in said groove and tightly wrapped about said body, means for admitting and retaining compressed air in said body, and an outer body molded about said hollow body.

6. A bowling pin, comprising, a hollow body having a circumferential groove therein of irregular depth, a wire disposed in said groove and tightly wrapped about said body, means for admitting and retaining compressed air in said body, and an outer body molded about said hollow body and embracing portions of said wire.

7. A bowling pin, comprising, a hollow body having a circumferential groove therein of irregular depth, a wire tightly wrapped about said body and disposed in said groove and secured at its opposite ends to said body, and an outer body molded about said hollow body and embracing portions of said wire.

8. A bowling pin, comprising, a hollow body having a spirally arranged groove therein of irregular depth, a wire tightly wrapped about said body and disposed in said groove and secured at its opposite ends to said body, and an outer body molded about said hollow body and embracing portions of said wire.

ERNEST HEDENSKOOG.