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A. J. LEMIEUX ET AL

BOWLING PIN

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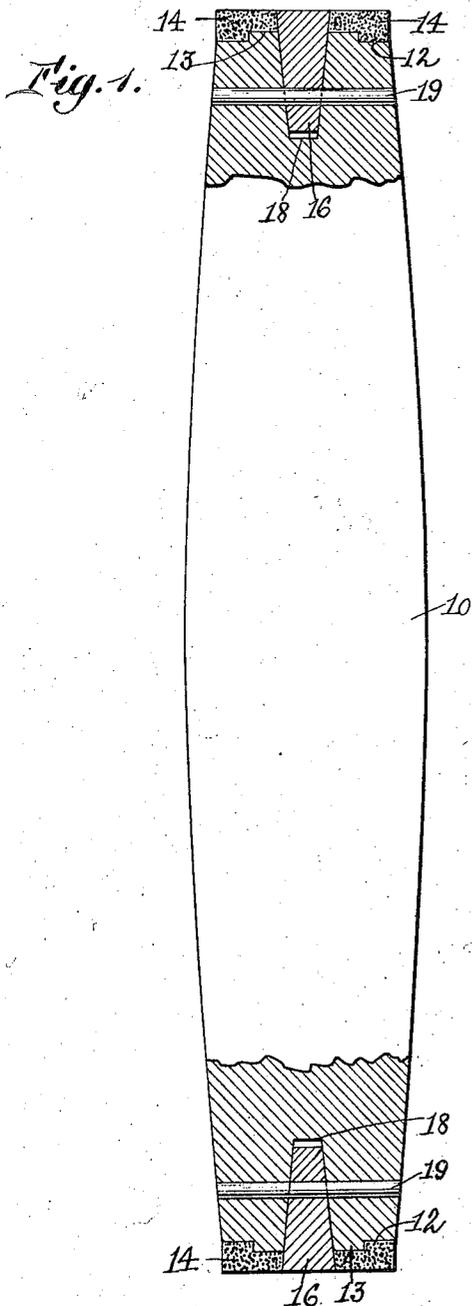


Fig. 2.

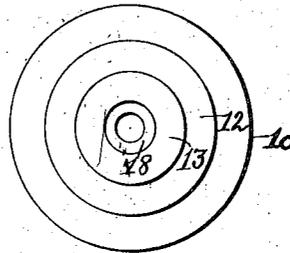
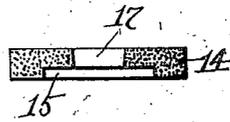


Fig. 3.



Inventors:

*Arthur J. Lemieux
Donald M. Walsh
by Jas. H. Churchill
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UNITED STATES PATENT OFFICE.

ARTHUR J. LEMIEUX AND DONALD M. WELSH, OF QUINCY, MASSACHUSETTS.

BOWLING PIN.

Application filed November 19, 1921. Serial No. 516,355.

To all whom it may concern:

Be it known that we, ARTHUR J. LEMIEUX and DONALD M. WELSH, citizens of the United States, and both residents of Quincy, in the county of Norfolk and State of Massachusetts, have invented an Improvement in Bowling Pins, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

This invention relates to a bowling pin and more particularly to a type of bowling pin known as a candle or Boston pin.

The type of bowling pins known as candle or Boston pins, and which are most commonly used in New England, are made of relatively light wood and are generally provided with a gradual taper from a central portion to the opposite ends. Both end surfaces are finished so that in use the pins are stood upon either end. In bowling candle pins, bowling balls of small diameter are employed, and are forcibly rolled down the alleys at high speed. Because of the excessive speed at which the balls strike the candle pins, the latter are subjected to severe usage with the result that the ends thereof become quickly split and broken, thus destroying the end surfaces upon which the pins are stood. Candle pins being of relatively small diameter as compared with their length, are accordingly more or less unstable and difficult to set up in the alleys, and it is of particular importance for their most successful use that both end surfaces should be maintained in a practically perfect condition.

At the present time as soon as a candle pin becomes chipped or split at either end, its usefulness is practically ended and it must be replaced, with the result that at the present time in commercial bowling alleys a set of candle pins lasts only about a week.

One object of the present invention is to provide a novel and improved construction of bowling pin, and particularly a candle pin having wearing qualities superior to any type of bowling pin at present upon the market and in which the end surfaces may be constantly maintained in a perfect condition at a minimum expense.

A further object of the invention is to provide a candle pin with durable fiber tips secured upon the opposite ends of the candle pin in a novel manner, adapted to withstand

the impact of the bowling balls without loosening.

To these ends the invention consists in the improved bowling pin, and candle pin hereinafter described and claimed.

In the drawing illustrating the preferred embodiment of the invention, Fig. 1 is a side elevation, partly in section, showing the construction of both ends of the improved candle pin; Fig. 2 is a plan of the pin with the tip removed, and Fig. 3, a section through one of the fiber tips.

Referring to the drawing, the improved candle pin illustrated therein comprises an elongated body portion 10 tapered in opposite directions from the mid portion thereof to both ends. Each end surface 12 of the candle pin is provided with a central raised projection or portion 13. Tip members 14 of hard fiber and of the same diameter as the end of the pin, are secured upon the end surfaces 12, the central raised portions 13 fitting into corresponding recesses 15 in the under side of the tips, thus centralizing the tip with relation to the pins.

In order to securely fasten the tips upon the end surfaces of the candle pin, tapered plugs 16, preferably of hard wood are driven through tapered holes 17 in the tips and into tapered holes 18 in the end portions of the candle pin. The plugs 16 are locked in this position by dowel pins 19, preferably of hard wood, extended through co-operating lateral holes in the body portion and plugs 15.

From the foregoing description, it will be observed that the improved candle pin having the durable fiber tips rigidly affixed to the opposite end surfaces of the pin, may be economically manufactured, and possesses wearing qualities far superior to any type of candle pin of which we are aware. After extended use, should the fiber tips become worn, they can be readily replaced.

Furthermore the manner in which the fiber tips are secured in operative position is such as to successfully withstand the blows and severe usage to which the candle pins are subjected without permitting the tips to become loosened.

Having thus described the invention, what is claimed is:

1. A candle pin comprising a body portion, fiber tip members for both end surfaces thereof, a tapered plug driven through a tapered hole in each fiber tip and into a

tapered hole in each end of said body portion to hold the tips firmly in engagement with the end surfaces thereof and pins extended transversely through the body portion and through each tapered plug to lock the plugs and fiber tips upon the candle pin.

2. A bowling pin comprising a body portion having an end surface upon which the pin is adapted to stand, a fiber tip for such end surface having a tapered hole, a tapered plug extended through the tapered hole in the fiber tip and into a tapered hole in the end of the bowling pin, and a dowel pin extended transversely through the plug for locking it within the bowling pin.

3. A candle pin comprising a body portion, fiber tips upon the opposite ends thereof, and means for retaining the fiber tips in operative position, including tapered plugs extended through tapered holes in the central portion of the fiber tips and into tapered holes in the end portion of said body portion, and means co-operating with the plugs and the body portion for locking the fiber tips in operative position.

In testimony whereof, we have signed our names to this specification.

ARTHUR J. LEMIEUX.
DONALD M. WELSH.