

No. 707,632.

Patented Aug. 26, 1902.

E. C. PHILLIPS.
BOWLING ALLEY PIN:
(Application filed May 15, 1902.)

(No Model.)

Fig. 1.

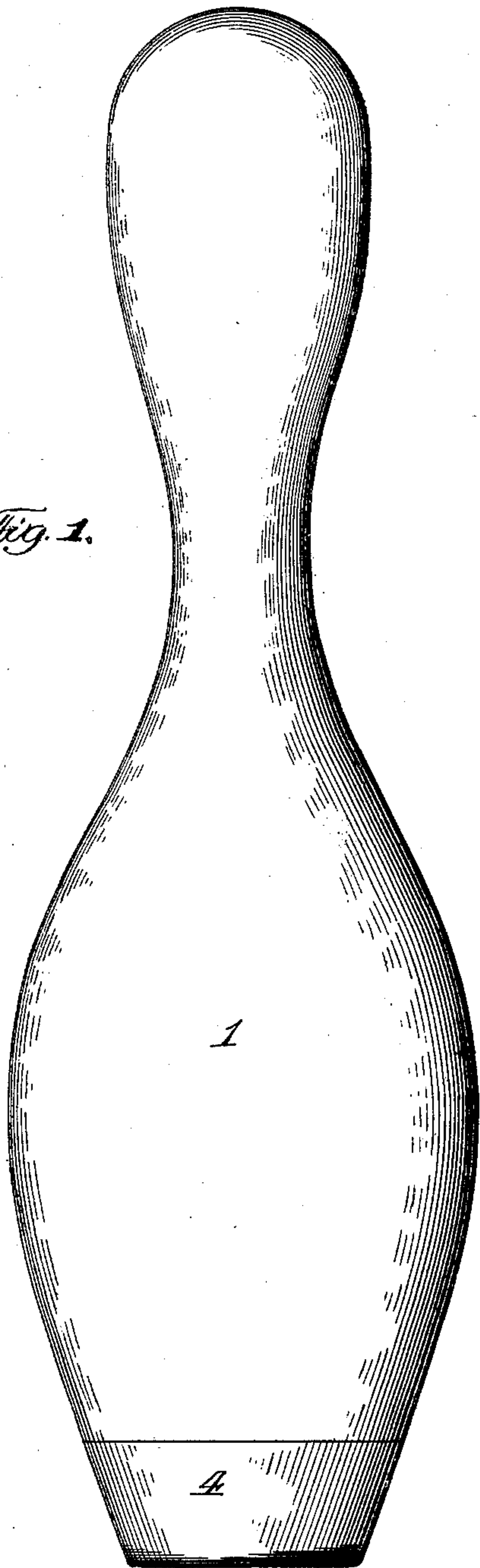
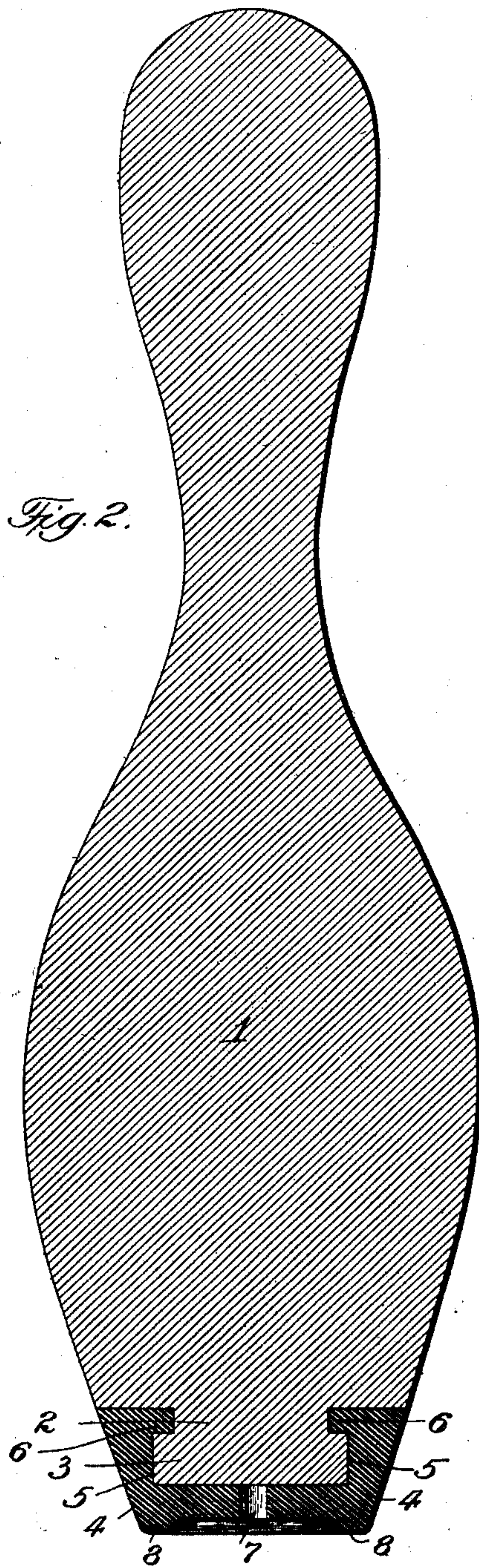


Fig. 2.



Attest:

John Enders Jr.
Henry A. Kott

Inventor:

Elwood C. Phillips.
by Robert Burns
Att'y.

UNITED STATES PATENT OFFICE.

ELWOOD C. PHILLIPS, OF CHICAGO, ILLINOIS, ASSIGNOR OF THREE-FOURTHS
TO CHARLES R. BARRETT, OF CHICAGO, ILLINOIS.

BOWLING-ALLEY PIN.

SPECIFICATION forming part of Letters Patent No. 707,632, dated August 26, 1902.

Application filed May 15, 1902. Serial No. 107,441. (No model.)

To all whom it may concern:

Be it known that I, ELWOOD C. PHILLIPS, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Bowling-Alley Pins, of which the following is a specification.

The present invention relates to bowling-alley pins, and has for its object to provide a simple and efficient base for such articles and with which the rapid wear and abrasion of the lower end of the pin in actual use is avoided in a very effective manner.

In the accompanying drawings, illustrative of the present invention, Figure 1 is a side elevation of a bowling-alley pin embodying the present invention; Fig. 2, a central vertical section of the same.

Similar numerals of reference indicate like parts in both views.

Referring to the drawings, 1 represents the bowling-alley pin of any usual shape and size and which in the present invention is formed with a central reduced shank 2 at its lower end and with a circular and enlarged head 3 at the lower end of said shank.

4 is an elastic base portion formed of india-rubber or like elastic material and having an outer configuration corresponding to the usual configuration of the base portion of an ordinary bowling-alley pin.

5 is a central chamber of a size corresponding to that of the enlarged head 3 aforesaid and adapted to house and embrace such head when the base portion 4 is in place upon the body of the bowling-alley pin.

6 is an annular inturned flange at the upper end of the central chamber 5. Such flange is of a size corresponding to the space between the enlarged head 3 and the flat under surface of the body of the bowling-alley pin and is adapted to embrace the reduced shank 2 when the base portion 4 is in place upon the body of the bowling-alley pin.

7 is a vent-orifice in the lower and horizontal web of the elastic base 4 to permit of the

escape of air in the operation of applying such elastic base portion 4 in place upon the lower end of the bowling-alley pin.

8 is an annular rim formed on the lower surface of the base portion 4 to constitute the bearing or supporting surface for the bowling-alley pin when set up in position in the bowling-alley.

With the present improved construction a strong, durable, and efficient attachment of the base to the body of the pin is provided without other and independent means of attachment, and at the same time the base is capable of attachment and detachment in a ready and convenient manner when accompanied with a little force.

Having thus fully described my said invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination in a bowling-alley pin, of a main body portion having a central cylindrical extension at its lower end and a cylindrical enlargement at the end of such cylindrical extension, and an elastic base formed with a central chamber to receive said cylindrical enlargement and with an annular inturned flange at the upper end of said chamber which is adapted to fit the cylindrical extension aforesaid of the main body, substantially as set forth.

2. As an improved article of manufacture, an elastic base for bowling-alley pins formed with a central chamber, an annular inturned flange at the upper end of said chamber and a bottom web at the lower end of said chamber which web is provided with a vent-orifice, such base being adapted to have engagement with a central headed shank on the lower end of a bowling-alley pin, substantially as set forth.

Signed at Chicago, Illinois, this 10th day of May, 1902.

ELWOOD C. PHILLIPS.

Witnesses:

ROBERT BURNS,
HENRY A. NOTT.