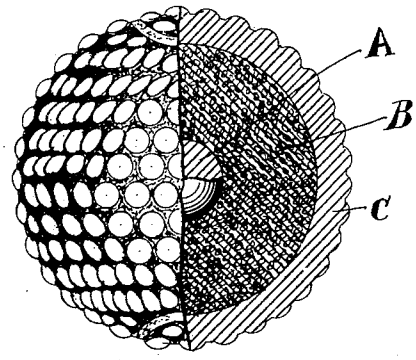
No. 710,755. Patented Oct. 7, 1902.

R. B. CAVANAGH.

GOLF BALL.

(Application filed July 30, 1902.)

(No Model.)



Witnesses:
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Inventor:
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

RICHARD B. CAVANAGH, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE KEMPSHALL MANUFACTURING COMPANY, A CORPORATION OF NEW JERSEY.

GOLF-BALL.

SPECIFICATION forming part of Letters Patent No. 710,755, dated October 7, 1902.

Application filed July 30, 1902. Serial No. 117,699. (No model.)

To all whom it may concern:

Be it known that I, RICHARD B. CAVANAGH, a citizen of the United States, residing in Washington, in the District of Columbia, have invented certain new and useful Improvements in Golf-Balls, of which the following is a specification.

This invention relates to golf-balls; and its object is to produce at low cost a durable ball which has good flying power.

The accompanying drawing illustrates, partly in section, a golf-ball made in accordance with my present invention.

Upon a center piece A, of hard wood or other hard material, I apply a thick sphere B, consisting of particles of cork and particles of paper or paper-pulp mixed with rubber or other cement. The sphere B is highly compressed and may be formed in segments and then united under great pressure and a suitable degree of heat upon the center piece A. It will be noted that the sphere B consists almost wholly of the compressed particles of cork and paper, so that the shock of the blow given to the ball is received and transmitted by such particles instead of by the cementing fluid or substance, the latter being present only in a small quantity for the purpose of causing the said particles to cleave one to another. Preferably said sphere consists principally of cork. I then apply a gutta-percha shell C under heat and pressure in such a manner as to hold the filling B under high compression. At the operation of applying the shell C the gutta-percha is softened by the heat, and the rubber present in the filling B is caused to unite firmly with said shell practically all over the interior surface thereof, thereby firmly joining said filling to the shell and making the ball of good flying quality and great durability.

Variations may be resorted to within the scope of my improvements.

Having described my invention, I claim—

1. A golf-ball comprising a hard center piece, a thick sphere thereon comprising particles of cork mixed with rubber-cement, and a shell of gutta-percha which adheres to the cement at the outer surface of said sphere.

2. A golf-ball comprising a hard-wood center piece, a thick sphere thereon comprising particles of cork incased with rubber-cement, and a shell of gutta-percha which adheres to the cement.

3. A golf-ball comprising a sphere consisting almost wholly of comminuted particles which are mixed with cement, and a gutta-percha shell which adheres to the cement.

4. A golf-ball comprising a sphere consisting principally of comminuted particles of cork which are mixed with cement, and a gutta-percha shell which adheres to the cement.

5. A golf-ball comprising a sphere consisting almost wholly of comminuted particles of cork and paper which are mixed with cement, and a gutta-percha shell which adheres to the cement.

6. A golf-ball comprising a sphere consisting almost wholly of comminuted particles which are mixed with rubber-cement, and a gutta-percha cover.

7. A golf-ball comprising a hard center piece, a sphere thereon comprising particles of cork mixed with rubber-cement, and a shell of gutta-percha which adheres to the cement and holds said sphere under compression.

8. A golf-ball comprising a hard-wood center piece, a sphere thereon consisting of particles of cork and other material mixed with rubber-cement, and a shell of gutta-percha which adheres to the cement and holds said sphere under compression.

RICHARD B. CAVANAGH.

Witnesses:

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