

No. 713,770.

Patented Nov. 18, 1902.

E. KEMPSHALL.
PLAYING BALL.

(Application filed June 14, 1902.)

(No Model.)

Fig. 1.

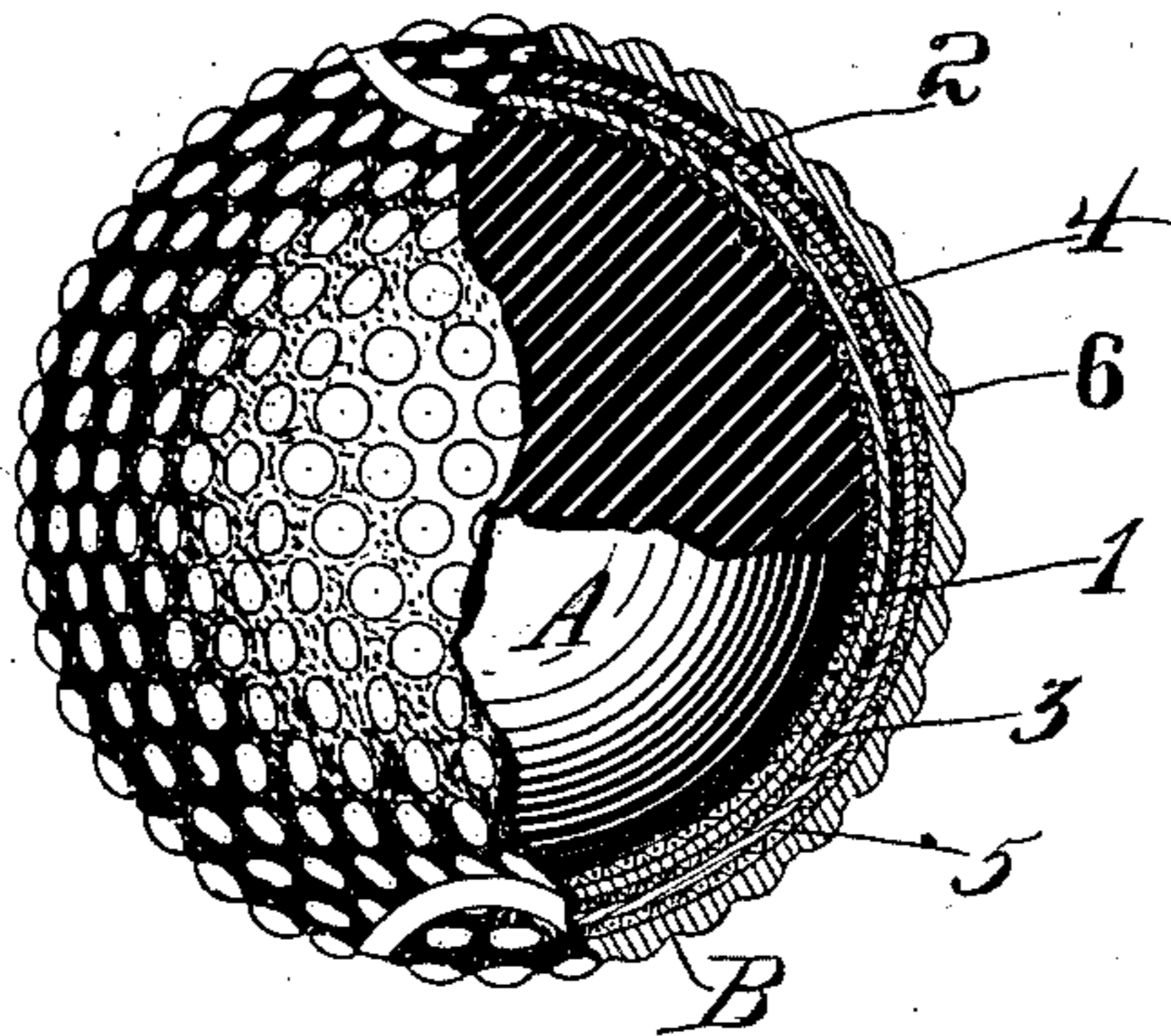
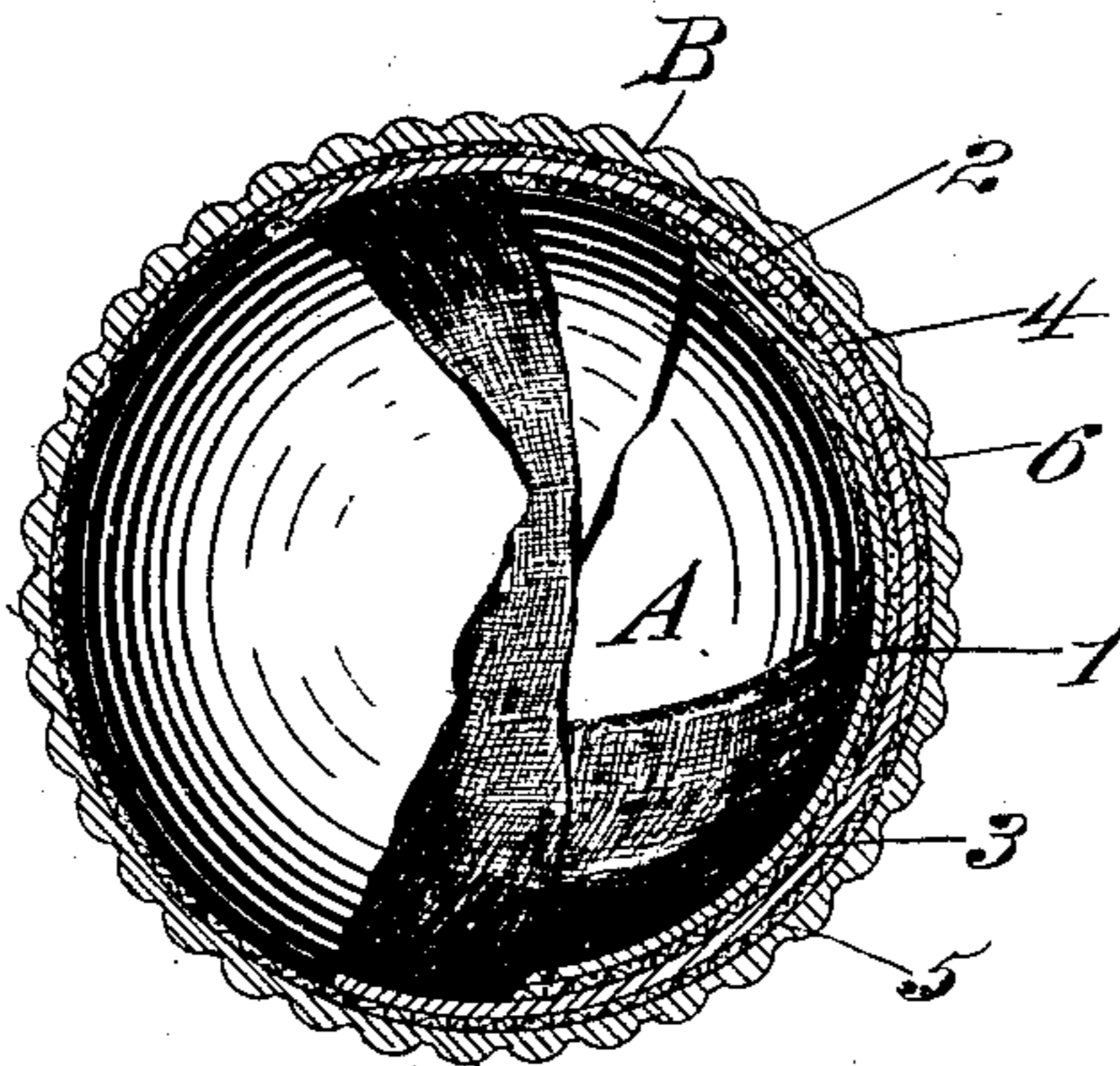


Fig. 2.



Witnesses.

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UNITED STATES PATENT OFFICE.

ELEAZER KEMPSHALL, OF BOSTON, MASSACHUSETTS.

PLAYING-BALL.

SPECIFICATION forming part of Letters Patent No. 713,770, dated November 18, 1902.

Application filed June 14, 1902. Serial No. 111,767. (No model.)

To all whom it may concern:

Be it known that I, ELEAZER KEMPSHALL, a citizen of the United States, residing in Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Playing-Balls, of which the following is a specification.

This invention relates to playing-balls, such as used in golf and other games; and its object is to improve their construction, durability, and efficiency.

In the drawings forming part of this specification, Figure 1 is a view of the completed ball, partly broken away to disclose its construction. Fig. 2 is a section of the ball, showing the hemispherical segmental layers of fabric and of gutta-percha applied to the core and the unmatched joints of the various segments.

In the several views similar parts are designated by similar characters of reference.

Upon a core or filling A, of suitable material, such as soft rubber, I apply a shell B, composed of layers of fabric alternating with layers of gutta-percha, the fabric being designated by 1, 3, and 5 and the gutta-percha by 2, 4, and 6, respectively. These layers are preferably made up into hemispherical segments or cups and are applied to the core A so that the joint between the segments of one layer will be so disposed as to cross the joint of another layer, so that when all of the layers are applied to the core the several

joints between each shell will be staggering, as illustrated in Fig. 2. After applying the elastic hemispherical segments 2, 4, and 6 and the fabric hemispherical layers 1, 3, and 5 in alternation the ball is placed between suitable heating-dies, whereby the fabric layers of the shell are embedded in the plastic segments, and owing to the staggering relation of the joints between the several successive layers the whole will be without a joint that extends through more than a single layer, thus increasing the durability of the shell and preventing it from bursting. It will be seen that by this construction and method of application of the shell the joint between each layer, whether of fabric or gutta-percha, is reinforced by the succeeding as well as the preceding layer. Hence the liability of bursting of the shell at any point when struck by an implement is overcome.

Having described my invention, I claim—

A playing-ball comprising a solid sphere of soft rubber and a plurality of layers of fabric thereon alternated with a plurality of layers of gutta-percha, each of said fabric and gutta-percha layers consisting of hemispherical segments, and the joint between said segments in each of said layers crossing the joint in the adjacent layer or layers.

ELEAZER KEMPSHALL.

Witnesses:

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