No. 695,579. Patented Mar. 18, 1902.

C. R. PARMELE.

GOLF CLUB.

(Application filed Sept. 24, 1901.)

(No Model.)

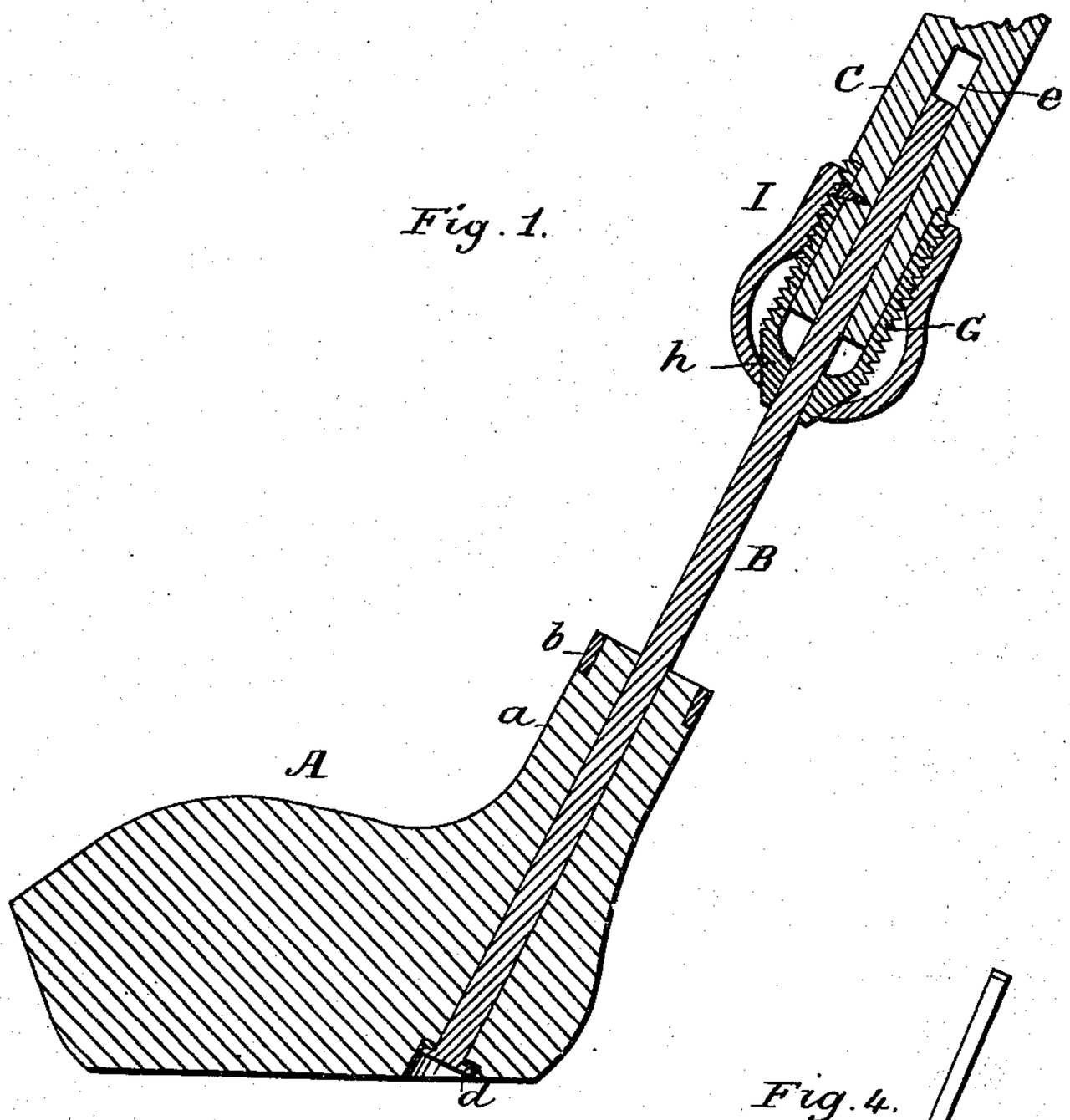


Fig. 1.

Fig. 2

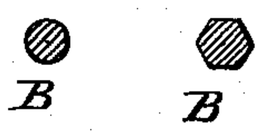


Fig. 3.

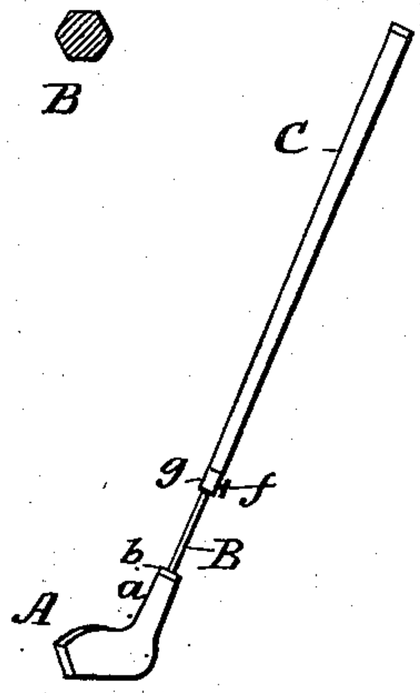
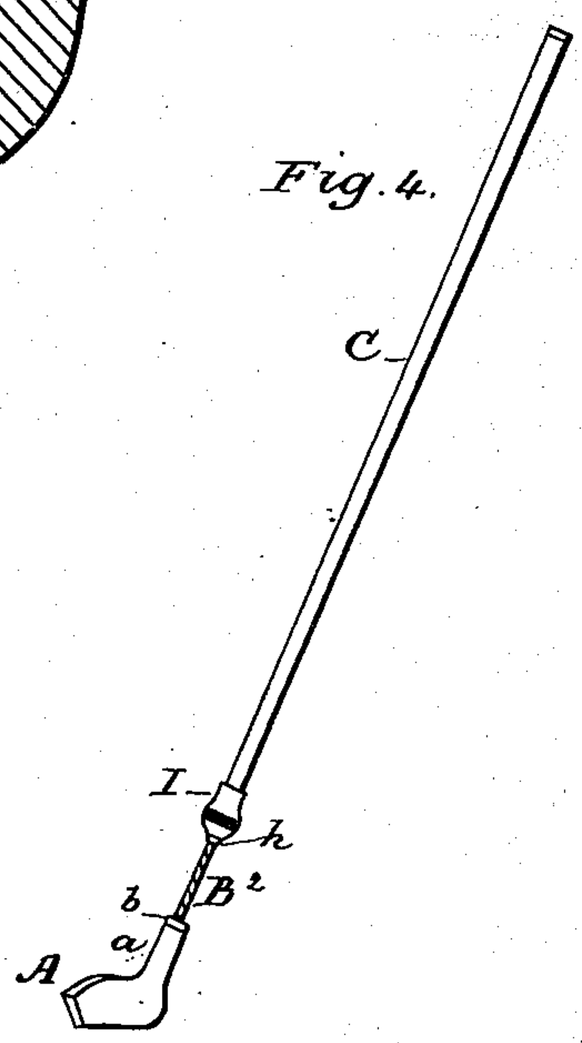


Fig. 4.



Witnesses

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GOLF-CLUB.

SPECIFICATION forming part of Letters Patent No. 695,579, dated March 18, 1902.

Application filed September 24, 1901. Serial No. 76,416. (No model.)

To all whom it may concern:

Be it known that I, CHARLES ROOME PARMELE, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Golf-Clubs, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to golf-clubs; and the object of this invention is to give to the shaft a large amount of resiliency at a point close to the head of the device, so as to render it what is technically termed "whippy," to add to its power and quick action in sending a golf-ball forward when in use, said resiliency also partly preventing the shock from being transmitted to the hands of the player. I attain these objects by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal section of the head of a golf-club and the lower portion of its shaft with a springy-metal connection constructed in accordance with my invention and adjustably secured to said shaft. Fig. 2 represents two transverse sections of slightly-different forms of the metal rod which may be used for the springy-metal connection between the head and the shaft of the device. Fig. 3 represents, on a small scale, the lower half of a golf-club having its springy-metal connection adjustably secured to the shaft with a screw driven in the lower end of said shaft, said screw having its point impinging upon the metal connection. Fig. 4 represents, on a small scale, a complete golf-club having the same kind of fastening shown in Fig. 1, but with an adjustable springy-metal connection consisting of a series of strands of springy wire twisted or plaited together.

In said drawings, A represents the head of the golf-club, which may be of any desired or well-known form. It is provided with a shank *a*, which is strengthened with a ferrule *b*. Through the head and shank passes a light rod B, of springy metal, to connect the head with the shaft C. Said connection B fits tightly within a perforation made the whole length of said head and its shank and is provided with a head *d*, which is preferably square to prevent the rod B from rotating on its axis, as it fits into a corresponding cavity in the bottom of the head A, so that the head will not be twisted or rotated when striking the ball.

The whippy rod or connection B can be made cylindrical or polygonal, as shown in cross-sections in Fig. 2, of spring-steel or of other metal having a large amount of resiliency, or it can be made of strands of springy wire twisted or plaited together, as indicated at B^2 in Fig. 4. The upper end of the connection B is received adjustably within the shaft C, the lower end of which is provided with a chamber *e* in the axis thereof. Suitable means are used to adjustably clamp the connection B to the shaft C. One of the simplest is that shown in Fig. 3, in which a thumb-screw is made to pass through the ferrule *g* and the wall of the internal chamber, and its end is made to impinge against the side of the rod B. In Figs. 1 and 4 the outer face of the ferrule G is screw-threaded, and its outer end is split lengthwise to constitute conical clamping-fingers *h*, which are made to tightly embrace the rod B. Upon the ferrule G is mounted a traveling nut I, the rounded lower end of which has an internal conical surface which bears upon the conical sides of the clamping-fingers *h*. By either of these clamping means the length of the free and uncovered surface of the connection B can be adjusted, and thereby the amount of resilience obtained of the lower end of the shaft a few inches above the head can be regulated, and the same shaft can be used to carry different heads in succession.

Having now fully described my invention, I claim—

1. A golf-club consisting of a head, a shaft, a ferrule on the lower end of said shaft and a chamber within said lower end, a connection consisting of a springy-metal rod having its lower end secured to the head and its upper end received adjustably within said chamber,

and a clamping device securing said connection to the shaft, substantially as described.

2. In a golf-club the combination of a head, a shaft, a ferrule on the end of said shaft, said end having a chamber therein and a clamping device alongside thereof, with a springy-metal connection having its lower end secured to the head and its upper end adjustably received and clamped within said chamber, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CHAS. ROOME PARMELE.

Witnesses:

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