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Complete Specification Left, 12th June, 1906—Accepted, 20th Sept., 1906.

PROVISIONAL SPECIFICATION.

An Improved Shuttlecock.

I, MARY SIBBRING, of The Victoria Pleasure Grounds, Ormskirk, in the County of Lancaster, Married, do hereby declare the nature of this invention to be as follows:—

This invention relates to a shuttlecock which will emit a musical or other
5 note or sound when it is struck by the battledore, and also when it is in the act
of falling. In carrying out the invention the shuttlecock is provided with a
pneumatic or collapsible portion, which may form its lower part or cushion.
An air passage leads from this chamber to the atmosphere, and in this passage
10 is disposed a metallic reed or whistle or other sound producing device. The
upper or wooden part of the shuttlecock is preferably formed in two halves.
A bellows may be employed in place of the pneumatic or collapsible chamber
referred to. The means by which the shuttlecock emits a sound as it is falling
may consist of a weight or spindle which comes into an upright position in
15 falling. Or the sound may be emitted from the shuttlecock by the passage of
air through said air passage in the upward flight of the shuttlecock and also
during its fall. The solid part of the shuttlecock may be in two halves, swivelled
together, so that the part to which the feathers are attached will rotate during
the flight and fall of the shuttlecock, the feathers being set so as to produce
such rotary motion, which may be utilised to produce a sound.

20 Dated this 11th day of December 1905.

J. A. COUBROUGH,
10, St. Georges Crescent, Liverpool.
Agent for the Applicant.

COMPLETE SPECIFICATION.

25

An Improved Shuttlecock.

I, MARY SIBBRING, of 17, Chester Road, Tuebrook, in the City of Liverpool,
formerly of The Victoria Pleasure Grounds, Ormskirk, in the County of
Lancaster, Married, do hereby declare the nature of this invention and in what
30 manner the same is to be performed, to be particularly described and ascer-
tained in and by the following statement:—

This invention relates to a shuttlecock which will emit a musical or other
note or sound when it is struck by the battledore and during its flight. In
carrying out the invention the shuttlecock is provided with a pneumatic or
collapsible portion, which forms its lower part or cushion. An air passage
35 leads from this chamber to the atmosphere, and in this passage is disposed a
metallic reed or whistle or other sound producing device.

In the annexed drawing Figure 1 is a side view and Figure 2 is a plan of a
shuttlecock formed according to this invention.

The body of the shuttlecock is in two parts, A and B, of wood, and these

[Price 8d.]



Sibbring's Improved Shuttlecock.

two parts are connected by the paper or skin bellows C. A spring D within the bellows serves to keep the parts A and B separated. An air channel E and duct F are formed in the upper part B, and arranged over this duct is a metallic reed G, the latter being secured to the wood B in the usual manner by an adhesive paper H. The feathers K of the shuttlecock are inserted in the part B in the usual manner. 5

When the shuttlecock is struck by the battledore, the bellows C are collapsed, and during the flight of the shuttlecock these bellows are distended again by the spring D, and the air in entering the bellows through the duct F causes the reed G to emit a sound. 10

The reed G may be duplicated and arranged so that one reed is sounded by the air passing out of the bellows, whilst the other reed is sounded by the air entering such bellows.

A whistle or similar sound producing device may be placed on the air channel E, instead of the reed G. 15

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is;—

A shuttlecock body in two parts, A and B, a bellows C connecting said parts, and a spring D for distending said bellows, an air passage in one of said parts, and a reed or whistle or the like disposed on said air passage and adapted to be sounded by said bellows after the shuttlecock has been struck by the battledore as described. 20

Dated this 11th day of June 1906.

J. A. COUBROUGH,
10, St. Georges Crescent, Liverpool.
Agent for the Applicant. 25

FIG. 1.

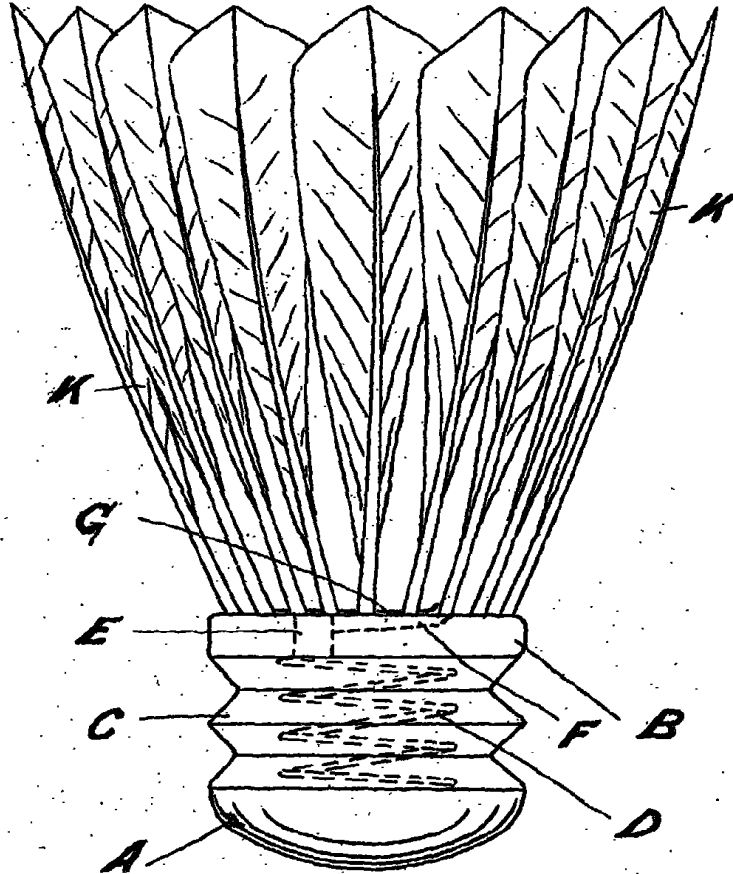
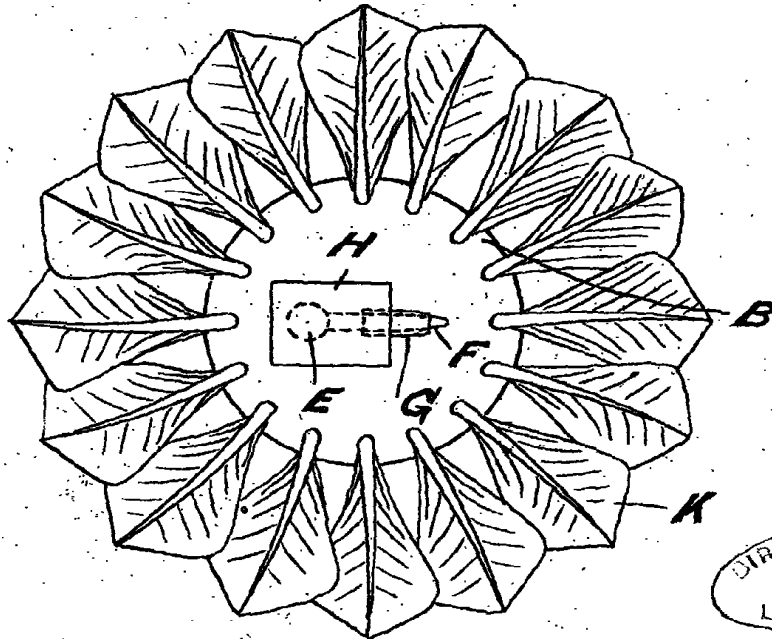


FIG. 2.



[This Drawing is a full-size reproduction of the Original.]

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