

Title (en)  
SHUTTLECOCK

Title (de)  
FEDERBALL

Title (fr)  
VOLANT DE BADMINTON

Publication  
**EP 3684481 B1 20240221 (EN)**

Application  
**EP 18895735 A 20181207**

Priority  
• MY PI2017001865 A 20171215  
• MY 2018050089 W 20181207

Abstract (en)  
[origin: WO2019132649A1] The invention relates to a shuttlecock (1). The shuttlecock (1) comprises a tip (9) having a recessed upper lip (3), a recessed lower lip (7) and a base (5) formed between the recessed upper lip (3) and the recessed lower lip (7). The shuttlecock (1) has a plurality of segments (29) extending away from the recessed lower lip (7), integrally formed and arranged in an annular array. Each of the plurality of segments (29) has a pair of spaced apart, diverging stems (11) with a blade (15) provided between the stems (11) at the end of the segment (29) distal from the recessed lower lip (7). The blade (15) comprises a plurality of perforations (17) thereon. There is a sizable central opening (13) formed at the centre portion of each of the plurality of segments (29) wherein the central opening (13) of the segment (29) is configured to allow passage of cross wind to reduce cross wind interference and the reduced mass of the segments (29) beyond the lower lip (7) resulting in the centre of gravity of the shuttlecock (1) being moved closer to the tip (9).

IPC 8 full level  
**A63B 67/187** (2016.01)

CPC (source: AU EP KR US)  
**A63B 67/187** (2016.01 - AU EP); **A63B 67/193** (2016.01 - EP KR US); **A63B 2102/04** (2015.10 - AU EP KR);  
**A63B 2209/00** (2013.01 - AU EP KR US); **A63B 2225/01** (2013.01 - EP KR)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2019132649 A1 20190704**; CN 111212681 A 20200529; CN 111212681 B 20210921; EP 3684481 A1 20200729; EP 3684481 A4 20210609;  
EP 3684481 B1 20240221; EP 3684481 C0 20240221; JP 2021508260 A 20210304; JP 7069310 B2 20220517; KR 102473635 B1 20221202;  
KR 20200099142 A 20200821; MY 188783 A 20211230; TW 201927380 A 20190716; TW I705842 B 20201001

DOCDB simple family (application)  
**MY 2018050089 W 20181207**; CN 201880066484 A 20181207; EP 18895735 A 20181207; JP 2020524374 A 20181207;  
KR 20207017190 A 20181207; MY PI2017001865 A 20171215; TW 107144937 A 20181213