

Title (en)
ARTIFICIAL FEATHER FOR SHUTTLECOCK, SHUTTLECOCK FOR BADMINTON AND MANUFACTURING METHOD FOR ARTIFICIAL FEATHER AND SHUTTLECOCK

Title (de)
KÜNSTLICHE FEDER FÜR EINEN FEDERBALL, FEDERBALL ZUM BADMINTON-SPIELEN UND HERSTELLUNGSVERFAHREN FÜR DIE KÜNSTLICHE FEDER UND DEN FEDERBALL

Title (fr)
PLUMES ARTIFICIELLES POUR VOLANT, VOLANT POUR BADMINTON, ET PROCÉDÉS DE FABRICATION DE CEUX-CI

Publication
EP 2687273 A4 20141210 (EN)

Application
EP 12763569 A 20120328

Priority

- JP 2011075398 A 20110330
- JP 2012058111 W 20120328

Abstract (en)
[origin: EP2687273A1] An artificial feather for a shuttlecock and a badminton shuttlecock achieving suppressed degradation of flight performance and having high durability, and methods of manufacturing the same are provided. An artificial feather (3) for a shuttlecock includes a feather portion, and a shaft connected to the feather portion. The shaft has a rectangular shape in cross section in a plane perpendicular to a direction in which the shaft extends, and the shaft includes a uniaxially stretched material. With this structure in which the shaft includes the uniaxially stretched material, by utilizing the characteristics of the uniaxially stretched material (such characteristics that the material can be elastically deformed within a wider range of distortion than usual materials), even when a shuttlecock (1) employing this artificial feather (3) for a shuttlecock is hit with a racket, the shaft of the artificial feather (3) is temporarily deformed under the impact of hitting, and then returns to its original shape without breaking. Therefore, the durability against hitting with a racket can be improved when compared to a conventional artificial feather.

IPC 8 full level
A63B 67/19 (2016.01)

CPC (source: EP KR)
A41G 11/00 (2013.01 - KR); **A63B 67/187** (2016.01 - EP); **A63B 67/19** (2016.01 - EP); **A63B 67/193** (2016.01 - KR); **A63B 2102/04** (2015.10 - KR)

Citation (search report)

- [XYI] GB 2333970 A 19990811 - DUNLOP SLAZENGER GROUP LTD [GB]
- [Y] CN 201643609 U 20101124 - NANJING VICTOR PHYSICAL MATERIALS IND CO LTD
- See references of WO 2012133520A1

Cited by
CN103933715A; JP2017038634A; WO2017195618A1

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)
EP 2687273 A1 20140122; EP 2687273 A4 20141210; JP 2012205842 A 20121025; JP 5661535 B2 20150128; KR 101702174 B1 20170213; KR 20140027951 A 20140307; MY 157014 A 20160415; TW 201309368 A 20130301; TW I543802 B 20160801; WO 2012133520 A1 20121004

DOCDB simple family (application)
EP 12763569 A 20120328; JP 2011075398 A 20110330; JP 2012058111 W 20120328; KR 20137027144 A 20120328; MY PI2013701768 A 20120328; TW 101110987 A 20120329