

Title (en)  
TWO-PIECE GOLF BALL

Title (de)  
ZWEITEILIGER GOLFBALL

Title (fr)  
BALLE DE GOLF EN DEUX PARTIES

Publication  
**EP 3181199 A2 20170621 (EN)**

Application  
**EP 16193917 A 20161014**

Priority  
JP 2015242909 A 20151214

Abstract (en)  
A golf ball (2) includes a core (4) and a cover (6). A value V calculated by the following mathematical formula is equal to or less than 1080 Hz.  $V = NF(2)^2 - \frac{2}{3} * NF(2)^1$  In the mathematical formula, NF(2)<sup>1</sup> represents a secondary natural frequency of the core (4), and NF(2)<sup>2</sup> represents a secondary natural frequency of the golf ball (2). A difference (H1s-H1o) between a Shore C hardness (H1s) at a surface of the core (4) and a Shore C hardness (H1o) at a central point of the core (4) is equal to or greater than 10. An amount of compressive deformation (Df1) of the core (4) is equal to or greater than 4,1 mm.

IPC 8 full level  
**A63B 37/00** (2006.01)

CPC (source: CN EP KR US)  
**A63B 37/0003** (2013.01 - CN); **A63B 37/0023** (2013.01 - CN); **A63B 37/0031** (2013.01 - EP KR US); **A63B 37/0033** (2013.01 - EP KR US); **A63B 37/005** (2013.01 - CN); **A63B 37/0051** (2013.01 - US); **A63B 37/006** (2013.01 - KR); **A63B 37/0061** (2013.01 - CN); **A63B 37/0063** (2013.01 - EP KR US); **A63B 37/0065** (2013.01 - EP KR US); **A63B 37/0074** (2013.01 - CN EP KR US); **A63B 37/008** (2013.01 - US); **A63B 37/0083** (2013.01 - US); **A63B 37/0087** (2013.01 - US); **A63B 37/0088** (2013.01 - EP KR US); **A63B 37/009** (2013.01 - US); **A63B 37/0094** (2013.01 - US); **A63B 37/0096** (2013.01 - US); **A63B 37/06** (2013.01 - CN); **A63B 2102/32** (2015.10 - KR)

Citation (applicant)  
• JP H1176461 A 19990323 - SUMITOMO RUBBER IND  
• US 123629 A 18720213  
• US 5971870 A 19991026 - SULLIVAN MICHAEL J [US], et al

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3181199 A2 20170621**; **EP 3181199 A3 20170719**; **EP 3181199 B1 20181212**; CN 106938134 A 20170711; CN 106938134 B 20200505; JP 2017108762 A 20170622; JP 6631224 B2 20200115; KR 102602817 B1 20231115; KR 20170070798 A 20170622; US 2017165529 A1 20170615

DOCDB simple family (application)  
**EP 16193917 A 20161014**; CN 201610966542 A 20161028; JP 2015242909 A 20151214; KR 20160122906 A 20160926; US 201615292559 A 20161013