

Title (en)
Golf ball with cover having varying hardness

Title (de)
Golfball mit unterschiedlich harter Ummantelung

Title (fr)
Balle de golf dotée d'une enveloppe à dureté variable

Publication
EP 2353665 A1 20110810 (EN)

Application
EP 11151551 A 20110120

Priority
• US 69076110 A 20100120
• US 201113004829 A 20110111

Abstract (en)
Generally disclosed is a golf ball having a core and a cover layer. The cover layer includes areas that are hard corresponding to the dimples, and areas that are soft corresponding to the land between the dimples. The cover layer may be selectively treated, such as by heating, to achieve a difference in hardness using a single cover layer material. Alternatively, the cover layer may be selectively coated with a coating material having a different hardness. As a result of the arrangement of the hard dimples and the soft land, the golf ball achieves reduced spin, and greater distances, when struck with a larger force (such as during a drive) while also achieving increased spin, and better control, when struck with a smaller force (such as during a chip).

IPC 8 full level
A63B 37/12 (2006.01); **A63B 37/14** (2006.01)

CPC (source: EP US)
A63B 37/00222 (2020.08 - EP US); **A63B 37/0031** (2013.01 - EP); **A63B 37/0032** (2013.01 - EP)

Citation (applicant)
• US 2008081710 A1 20080403 - CHEN JOHN CHU [US], et al
• US 60483009 A 20091023
• US 69049310 A 20100120
• US 60483009 A 20091023

Citation (search report)
• [AD] US 2008081710 A1 20080403 - CHEN JOHN CHU [US], et al
• [A] US 2008064527 A1 20080313 - WU SHENSHEN [US], et al
• [A] US 2008251400 A1 20081016 - ULRICH DAVID J [US]

Cited by
EP2399652A1; US8393979B2; US8602915B2; US9333393B2; WO2013101662A1

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 2353665 A1 20110810; **EP 2353665 B1 20121107**; CA 2728070 A1 20110330; CA 2728070 C 20120626; CN 102125748 A 20110720; CN 102125748 B 20130220; WO 2011090860 A1 20110728

DOCDB simple family (application)
EP 11151551 A 20110120; CA 2728070 A 20110113; CN 201110025876 A 20110120; US 2011020996 W 20110112