

Title (en)
MIXED MATERIAL GOLF CLUB HEAD

Title (de)
GOLFSCHLÄGERKOPF AUS MISCHMATERIAL

Title (fr)
TÊTE DE CLUB DE GOLF EN MATÉRIAU MIXTE

Publication
EP 3894026 A4 20220824 (EN)

Application
EP 19896085 A 20191213

Priority
• US 201862779335 P 20181213
• US 201916380873 A 20190410
• US 2019066324 W 20191213

Abstract (en)
[origin: WO2020124001A1] A hollow golf club head includes a metallic front body coupled with a composite rear body. The front body includes a strike face and a surrounding frame that extends rearward from a perimeter of the strikeface. The rear body includes a crown member coupled with a sole member. The sole member has a structural layer formed from a filled thermoplastic material, while the resilient layer is bonded to the external surface of the structural layer and is formed from a fiber-reinforced thermoplastic composite material. The resilient layer has an opening through which a metallic weight pad at least partially extends. The weight pad is bonded to the structural layer and includes an aperture for attaching a metallic weight.

IPC 8 full level
A63B 53/04 (2015.01); **A63B 53/02** (2015.01); **A63B 53/06** (2015.01); **A63B 53/08** (2015.01); **A63B 60/00** (2015.01); **A63B 60/02** (2015.01); **A63B 60/04** (2015.01)

CPC (source: EP KR)
A63B 53/042 (2020.08 - EP); **A63B 53/0433** (2020.08 - EP); **A63B 53/0458** (2020.08 - KR); **A63B 53/0466** (2013.01 - EP KR); **A63B 60/006** (2020.08 - EP KR); **A63B 60/02** (2015.10 - KR); **A63B 60/52** (2015.10 - KR); **A63B 53/0458** (2020.08 - EP); **A63B 60/02** (2015.10 - EP); **A63B 60/52** (2015.10 - EP); **A63B 2053/0491** (2013.01 - EP KR); **A63B 2209/00** (2013.01 - EP KR); **A63B 2209/02** (2013.01 - EP KR); **A63B 2209/023** (2013.01 - EP KR); **A63B 2225/01** (2013.01 - EP KR)

Citation (search report)
• [XYI] US 2018178095 A1 20180628 - MORALES ERIC J [US], et al
• [Y] US 2003032500 A1 20030213 - NAKAHARA NORIHIKO [JP], et al
• [Y] US 2012010019 A1 20120112 - CURTIS ANDREW J [US], et al
• [Y] US 2013102410 A1 20130425 - STITES JOHN T [US], et al
• [Y] US 2007293350 A1 20071220 - IMAMOTO YASUNORI [JP], et al
• See also references of WO 2020124001A1

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

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WO 2020124001 A1 20200618; EP 3894026 A1 20211020; EP 3894026 A4 20220824; JP 2022513816 A 20220209; JP 2024075619 A 20240604; JP 7453234 B2 20240319; KR 20210100687 A 20210817; TW 202100212 A 20210101; TW 202138032 A 20211016; TW 202216256 A 20220501; TW 202339827 A 20231016; TW I734298 B 20210721; TW I753836 B 20220121; TW I805140 B 20230611; TW I824972 B 20231201

DOCDB simple family (application)
US 2019066324 W 20191213; EP 19896085 A 20191213; JP 2021533693 A 20191213; JP 2024035118 A 20240307; KR 20217021336 A 20191213; TW 108145784 A 20191213; TW 110121524 A 20191213; TW 110147778 A 20191213; TW 112117039 A 20191213