

Title (en)
ARTIFICIAL TURF SYSTEM

Title (de)
KUNSTRASENSYSTEM

Title (fr)
SYSTÈME DE GAZON ARTIFICIEL

Publication
EP 3505680 A1 20190703 (EN)

Application
EP 17382915 A 20171228

Priority
EP 17382915 A 20171228

Abstract (en)
The present disclosure provides an artificial turf system. In an embodiment, the artificial turf system includes a primary backing layer and a shock absorption component. The primary backing layer has a plurality of artificial turf yarns projecting upwardly from the primary backing layer. The artificial turf system also includes a shock absorption component. The shock absorption component is composed of a sheet of three-dimensional random loop material (3DRLM). The sheet of 3DRLM is in contact with the primary backing layer. The shock absorption component includes (i) a cushioning layer and (ii) a shockpad. The 3DRLM in the cushioning layer has an apparent density that is greater than the apparent density of the 3DRLM in the shockpad.

IPC 8 full level
E01C 13/02 (2006.01); **E01C 13/08** (2006.01)

CPC (source: EP US)
E01C 13/02 (2013.01 - EP US); **E01C 13/08** (2013.01 - EP US); **D02G 3/34** (2013.01 - US); **D10B 2403/033** (2013.01 - US)

Citation (applicant)
• US 6111023 A 20000829 - CHUM PAK-WING STEVE [US], et al
• US 5677383 A 19971014 - CHUM PAK-WING STEVE [US], et al
• US 6984695 B2 20060110 - BROWN STEPHEN JOHN [CA], et al
• US 3645992 A 19720229 - ELSTON CLAYTON TREVOR
• US 4798081 A 19890117 - HAZLITT LONNIE G [US], et al
• US 5089321 A 19920218 - CHUM PAK-WING S [US], et al
• US 7803728 B2 20100928 - POON BENJAMIN C [US], et al
• US 8372931 B2 20130212 - HERMEL-DAVIDOCK THERESA J [US], et al
• US 8829115 B2 20140909 - HERMEL-DAVIDOCK THERESA J [US], et al
• "Periodic Table of the Elements herein shall refer to the Periodic Table of the Elements", 2003, CRC PRESS, INC.
• B MONRABAL ET AL., MACROMOL. SYMP., vol. 257, 2007, pages 71 - 79
• WILLIAMS; WARD, J. POLYM. SCI., POLYM. LET., vol. 6, 1968, pages 621

Citation (search report)
• [XY] US 2015167254 A1 20150618 - VERLEYEN MARC HENRI [BE], et al
• [Y] WO 2013060634 A1 20130502 - BONAR BV [NL]
• [Y] US 2017198442 A1 20170713 - WHITE JR STEVE [US], et al

Cited by
EP4261348A1; BE1030452A1

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 3505680 A1 20190703; EP 3505680 B1 20220824; AR 114298 A1 20200819; BR 112020012956 A2 20201201; CN 111542663 A 20200814; CN 111542663 B 20220826; ES 2928079 T3 20221115; US 2021062436 A1 20210304; WO 2019133789 A1 20190704

DOCDB simple family (application)
EP 17382915 A 20171228; AR P180103847 A 20181221; BR 112020012956 A 20181228; CN 201880084268 A 20181228; ES 17382915 T 20171228; US 2018067821 W 20181228; US 201816958035 A 20181228