

Title (en)
ABSORBENT NEEDLE-PUNCHED LAYERED COMPOSITE

Title (de)
ABSORPTIVER VERNADELTER SCHICHTVERBUND

Title (fr)
COMPOSITE STRATIFIÉ AIGUILLETÉ ABSORBANT

Publication
EP 3959073 A1 20220302 (DE)

Application
EP 20721494 A 20200421

Priority
• DE 102019110494 A 20190423
• EP 2020061093 W 20200421

Abstract (en)
[origin: WO2020216745A1] The invention relates to a layered composite, a sandwich structure, wherein a PUR foam layer is needle-punched with two nonwovens.

IPC 8 full level
B32B 5/06 (2006.01); **B32B 5/18** (2006.01); **B32B 5/24** (2006.01); **B60R 13/08** (2006.01); **D04H 1/435** (2012.01); **D04H 1/46** (2012.01); **G10K 11/00** (2006.01); **G10K 11/168** (2006.01)

CPC (source: EP US)
B32B 5/022 (2013.01 - EP US); **B32B 5/06** (2013.01 - EP); **B32B 5/08** (2013.01 - EP); **B32B 5/18** (2013.01 - EP US); **B32B 5/245** (2013.01 - EP US); **B32B 7/09** (2019.01 - US); **B32B 37/0076** (2013.01 - US); **B60R 13/08** (2013.01 - EP); **G10K 11/168** (2013.01 - EP); **B32B 2250/02** (2013.01 - EP US); **B32B 2250/03** (2013.01 - EP); **B32B 2250/40** (2013.01 - EP); **B32B 2262/0253** (2013.01 - EP); **B32B 2262/0261** (2013.01 - EP); **B32B 2262/0284** (2013.01 - EP US); **B32B 2262/062** (2013.01 - EP); **B32B 2262/14** (2013.01 - EP); **B32B 2266/0278** (2013.01 - EP US); **B32B 2307/102** (2013.01 - EP US); **B32B 2307/56** (2013.01 - EP); **B32B 2307/718** (2013.01 - EP US); **B32B 2307/72** (2013.01 - EP US); **B32B 2307/732** (2013.01 - EP US); **B32B 2605/003** (2013.01 - EP); **B32B 2605/08** (2013.01 - EP); **D04H 1/435** (2013.01 - EP); **D04H 1/46** (2013.01 - EP)

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)
WO 2020216745 A1 20201029; CN 114007855 A 20220201; DE 102019110494 A1 20201029; EP 3959073 A1 20220302; JP 2022530048 A 20220627; US 2022203649 A1 20220630

DOCDB simple family (application)
EP 2020061093 W 20200421; CN 202080031376 A 20200421; DE 102019110494 A 20190423; EP 20721494 A 20200421; JP 2021562987 A 20200421; US 202017605657 A 20200421