Title (en)

MULTILAYER STRUCTURE FOR TRANSPORTING OR STORING HYDROGEN

Title (de)

MEHRSCHICHTIGE STRUKTUR ZUM TRANSPORT ODER ZUR LAGERUNG VON WASSERSTOFF

Title (fr)

STRUCTURE MULTICOUCHE POUR LE TRANSPORT OU LE STOCKAGE DE L'HYDROGENE

Publication

EP 4136180 A1 20230222 (FR)

Application

EP 21725566 A 20210415

Priority

- FR 2003818 A 20200416
- FR 2021050657 W 20210415

Abstract (en)

[origin: WO2021209718A1] The present invention relates to the use of a sealing layer (1) consisting of a composition comprising at least one polyamide for preparing a multicore structure intended for the transport, distribution or storage of hydrogen, in particular for the distribution or storage of hydrogen, especially for the storage of hydrogen, the sealing layer satisfying a test for contaminants present in the hydrogen and extracted from the sealing layer after contact of the hydrogen with same, the test been carried out as defined in the standard CSA/ANSI CHMC 2: 19, the total proportion of said contaminants extracted in the hydrogen being less than or equal to 3% by weight, in particular less than 2% by weight of the sum of the constituents of the composition.

IPC 8 full level

C09D 177/02 (2006.01); **B32B 1/02** (2006.01); **B32B 17/04** (2006.01); **B32B 27/34** (2006.01); **C08L 77/02** (2006.01); **C08L 77/06** (2006.01); **C09D 177/06** (2006.01)

CPC (source: EP KR US)

B32B 1/00 (2013.01 - EP US); **B32B 1/08** (2013.01 - EP KR); **B32B 5/02** (2013.01 - EP KR US); **B32B 17/04** (2013.01 - EP KR); **B32B 27/12** (2013.01 - EP KR US); **B32B 27/22** (2013.01 - EP KR); **B32B 27/30** (2013.01 - EP); **B32B 27/32** (2013.01 - EP); **B32B 27/34** (2013.01 - EP KR US); **C08G 69/10** (2013.01 - US); **C08G 69/36** (2013.01 - US); **C08J 5/243** (2021.05 - US); **C08L 77/02** (2013.01 - EP KR); **C08L 77/06** (2013.01 - EP KR); **C09D 177/02** (2013.01 - EP KR); **C09D 177/06** (2013.01 - EP KR); **C09K 3/1028** (2013.01 - US); **F17C 1/16** (2013.01 - US); **F17C 13/00** (2013.01 - KR); **F17D 1/04** (2013.01 - KR); B32B 27/18 (2013.01 - US); B32B 2250/02 (2013.01 - EP); B32B 2260/021 (2013.01 - EP KR); B32B 2260/023 (2013.01 - EP US); B32B 2260/046 (2013.01 - EP KR US); B32B 2262/0253 (2013.01 - EP); B32B 2262/0261 (2013.01 - US); B32B 2262/0269 (2013.01 - EP); B32B 2262/04 (2013.01 - EP); B32B 2262/065 (2013.01 - EP); B32B 2262/101 (2013.01 - EP KR US); B32B 2262/105 (2013.01 - EP); B32B 2262/106 (2013.01 - EP); B32B 2262/108 (2013.01 - EP); B32B 2262/14 (2013.01 - EP); B32B 2270/00 (2013.01 - EP); B32B 2307/412 (2013.01 - US); B32B 2307/7242 (2013.01 - EP KR); B32B 2439/40 (2013.01 - US); B32B 2605/08 (2013.01 - EP); C08J 2363/00 (2013.01 - US); C08J 2377/04 (2013.01 - US); C08J 2377/06 (2013.01 - US); C09K 2003/1084 (2013.01 - US); C09K 2200/0282 (2013.01 - US); C09K 2200/0647 (2013.01 - US); C09K 2200/0667 (2013.01 - US); F17C 2203/012 (2013.01 - US); F17C 2203/0604 (2013.01 - KR); F17C 2203/066 (2013.01 - US); F17C 2203/0673 (2013.01 - US); F17C 2209/2118 (2013.01 - US); F17C 2209/2127 (2013.01 - US); F17C 2209/232 (2013.01 - US); F17C 2221/012 (2013.01 - KR US); F17C 2270/0168 (2013.01 - KR); F17C 2270/0184 (2013.01 - KR); Y02E 60/32 (2013.01 - EP)

C-Set (source: EP)

1. **C09D 177/02** + **C08L 23/0869**
2. **C09D 177/06** + **C08L 23/0869**
3. **C08L 77/02** + **C08L 23/0869**
4. **C08L 77/06** + **C08L 23/0869**

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021209718 A1 20211021; CA 3172593 A1 20211021; CN 115413292 A 20221129; EP 4136180 A1 20230222; FR 3109389 A1 20211022; JP 2023521463 A 20230524; KR 20230007381 A 20230112; MX 2022012608 A 20221107; US 2023151255 A1 20230518

DOCDB simple family (application)

FR 2021050657 W 20210415; CA 3172593 A 20210415; CN 202180028433 A 20210415; EP 21725566 A 20210415; FR 2003818 A 20200416; JP 2022562802 A 20210415; KR 20227039796 A 20210415; MX 2022012608 A 20210415; US 202117917052 A 20210415