

Title (en)
WRAPPER COMPRISING METAL PARTICLES

Title (de)
UMHÜLLUNG MIT METALLTEILCHEN

Title (fr)
ENVELOPPE COMPRENANT DES PARTICULES MÉTALLIQUES

Publication
EP 3818841 A4 20211222 (EN)

Application
EP 19830925 A 20190703

Priority
• KR 20180078298 A 20180705
• KR 2019008094 W 20190703

Abstract (en)
[origin: EP3818841A1] A wrapper according to an aspect includes a pulp layer and metal particles uniformly distributed inside the pulp layer, wherein the metal particles contain a metal flake paste.

IPC 8 full level
A24D 1/02 (2006.01); **B22F 1/102** (2022.01); **D21H 17/06** (2006.01); **D21H 17/07** (2006.01); **D21H 17/63** (2006.01); **D21H 27/00** (2006.01)

CPC (source: EP KR US)
A24D 1/02 (2013.01 - EP KR US); **A24D 1/20** (2020.01 - EP US); **A24F 40/20** (2020.01 - US); **B22F 1/102** (2022.01 - EP KR US); **B22F 9/16** (2013.01 - US); **D21H 5/16** (2013.01 - KR); **D21H 15/08** (2013.01 - EP US); **D21H 17/06** (2013.01 - EP KR); **D21H 17/07** (2013.01 - EP KR); **D21H 17/63** (2013.01 - EP KR); **D21H 17/69** (2013.01 - US); **D21H 21/50** (2013.01 - US); **D21H 27/00** (2013.01 - EP US); **A24D 3/17** (2020.01 - US); **B22F 2301/052** (2013.01 - US)

Citation (search report)
• [A] US 2009223529 A1 20090910 - HAMPL JR VLADIMIR [US], et al
• [A] US 2012298126 A1 20121129 - DYAKONOV ALEXANDER J [US], et al
• [X] US 7837777 B2 20101123 - IKEYA AKIHIKO [JP], et al
• See also references of WO 2020009454A1

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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EP 3818841 A1 20210512; EP 3818841 A4 20211222; EP 3818841 B1 20240501; CN 112367863 A 20210212; CN 112367863 B 20231128; JP 2021528042 A 20211021; JP 7074403 B2 20220524; KR 102414656 B1 20220629; KR 20200005075 A 20200115; US 2021254287 A1 20210819; WO 2020009454 A1 20200109

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EP 19830925 A 20190703; CN 201980044935 A 20190703; JP 2020557154 A 20190703; KR 20180078298 A 20180705; KR 2019008094 W 20190703; US 201916973156 A 20190703