

Title (en)
BARRIER-COATED CELLULOSE-BASED SUBSTRATE

Title (de)
TRENNBESCHICHTETES CELLULOSEBASIERTES SUBSTRAT

Title (fr)
SUBSTRAT À BASE DE CELLULOSE REVÊTU D'UNE BARRIÈRE

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Abstract (en)
The present invention relates to a barrier-coated cellulose-based substrate (25a) and to a method of manufacturing such cellulose-based substrates, by dispersion coating of a ductile base layer pre-coating (12a) and subsequent dispersion coating of a gas barrier composition (13a) and/or vapour deposition coating of a barrier deposition coating (14a). The invention further relates to laminated packaging materials (20a) comprising the barrier-coated cellulose-based substrate (10), in particular intended for liquid carton food packaging, and to liquid carton packaging containers comprising the laminated packaging material.

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Citation (applicant)
• WO 2011003565 A2 20110113 - TETRA LAVAL HOLDINGS & FINANCE [CH], et al
• WO 2017089508 A1 20170601 - TETRA LAVAL HOLDINGS & FINANCE [CH]

Citation (search report)
• [X] JP 2020189489 A 20201126 - OJI HOLDINGS CORP
• [X] WO 2021166910 A1 20210826 - OJI HOLDINGS CORP [JP]
• [X] EP 3620576 A1 20200311 - HANSOL PAPER CO LTD [KR]
• [A] EP 2777934 B1 20170315 - JUJO PAPER CO LTD [JP]
• [A] SE 2050523 A1 20211108 - STORA ENSO OYJ [FI]
• [A] US 2020317413 A1 20201008 - FORTIN LORI JEANNE [US]
• [A] KUMAR VINAY ET AL: "Substrate role in coating of microfibrillated cellulose suspensions", CELLULOSE, SPRINGER NETHERLANDS, NETHERLANDS, vol. 24, no. 3, 24 January 2017 (2017-01-24), pages 1247 - 1260, XP036159051, ISSN: 0969-0239, [retrieved on 20170124], DOI: 10.1007/S10570-017-1201-5

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