

Title (en)

METHOD OF PRODUCING A CELLULOSE FIBER STRUCTURE AND A FIBER STRUCTURE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER CELLULOSEFASERSTRUKTUR UND FASERSTRUKTUR

Title (fr)

PROCÉDÉ DE PRODUCTION D'UNE STRUCTURE EN FIBRES CELLULOSIQUES ET STRUCTURE EN FIBRES

Publication

**EP 4271886 A1 20231108 (EN)**

Application

**EP 21914814 A 20211217**

Priority

- SE 2051575 A 20201230
- IB 2021061938 W 20211217

Abstract (en)

[origin: WO2022144681A1] The invention discloses a method for producing a three-dimensional molded article from cellulose fibers, comprising the steps of: -providing a pulp molding composition; -molding a three-dimensional precursor structure from said composition wherein said structure comprises a dry content between 15-80wt%; -providing an aqueous suspension comprising microfibrillated cellulose and wet strength agent; -applying the aqueous suspension onto at least one face of said precursor structure to create a surface barrier layer on said structure; and -dewatering and drying said molded precursor structure under elevated temperature >150 °C to a dry content of ≥88wt%, preferably ≥94wt%, more preferably ≥96% to achieve the three- dimensional molded article.

IPC 8 full level

**D21J 7/00** (2006.01); **C08L 1/02** (2006.01); **C09D 101/02** (2006.01); **D21H 11/18** (2006.01); **D21H 19/12** (2006.01); **D21H 21/18** (2006.01); **D21J 3/00** (2006.01); **D21J 5/00** (2006.01)

CPC (source: EP SE)

**C08L 1/02** (2013.01 - EP); **C09D 101/02** (2013.01 - SE); **D21C 9/007** (2013.01 - EP); **D21H 11/18** (2013.01 - EP SE); **D21H 21/18** (2013.01 - SE); **D21J 3/00** (2013.01 - EP SE); **D21J 5/00** (2013.01 - EP SE); **D21J 7/00** (2013.01 - EP SE); **C08L 1/02** (2013.01 - SE); **D21H 19/12** (2013.01 - SE)

Citation (search report)

See references of WO 2022144681A1

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 2022144681 A1 20220707**; EP 4271886 A1 20231108; SE 2051575 A1 20220701

DOCDB simple family (application)

**IB 2021061938 W 20211217**; EP 21914814 A 20211217; SE 2051575 A 20201230