

Title (en)
HIGH DURABILITY CARDBOARD PRODUCT AND METHOD FOR THE MANUFACTURING THEREOF

Title (de)
HOCHBESTÄNDIGES KARTONPRODUKT UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)
PRODUIT EN CARTON À DURABILITÉ ÉLEVÉE ET SON PROCÉDÉ DE FABRICATION

Publication
EP 4281616 A1 20231129 (EN)

Application
EP 22709338 A 20220124

Priority
• FI 20215083 A 20210125
• FI 2022050047 W 20220124

Abstract (en)
[origin: WO2022157425A1] The object of the invention is high durability cardboard product and a method for the manufacturing thereof. The method comprises the steps of applying a cross-linking formulation comprising at least one cross-linking acid and at least one polyol to a pulp sheet material, pre-dry-ing the pulp sheet material treated with the cross-linking formulation and pre-heating a single sheet or combined multiple sheets of the pre-dried pulp sheet material treated with the cross-linking formulation. At least one cardboard product is shaped and cut out of the pre-heated pulp sheet material, and finally subjected to a final curing step.

IPC 8 full level
D21H 17/06 (2006.01); **A47G 19/03** (2006.01); **B65D 65/46** (2006.01); **D21H 17/15** (2006.01); **D21H 21/16** (2006.01); **D21H 21/18** (2006.01); **D21H 27/10** (2006.01); **D21H 27/30** (2006.01)

CPC (source: EP FI)
A47G 21/00 (2013.01 - FI); **D21H 17/06** (2013.01 - EP FI); **D21H 17/14** (2013.01 - FI); **D21H 17/15** (2013.01 - EP); **D21H 19/16** (2013.01 - FI); **D21H 21/16** (2013.01 - EP); **D21H 21/18** (2013.01 - EP); **D21H 27/10** (2013.01 - EP); **D21H 27/30** (2013.01 - EP); **A47G 19/03** (2013.01 - EP); **A47G 21/00** (2013.01 - EP)

Citation (search report)
See references of WO 2022157425A1

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 2022157425 A1 20220728; AU 2022210496 A1 20230907; CA 3206132 A1 20220728; EP 4281616 A1 20231129; FI 130540 B 20231108; FI 20215083 A1 20220726

DOCDB simple family (application)
FI 2022050047 W 20220124; AU 2022210496 A 20220124; CA 3206132 A 20220124; EP 22709338 A 20220124; FI 20215083 A 20210125