

Title (en)
ROD-BASED WOOD MATERIALS

Title (de)
HOLZMATERIALIEN AUF STABBASIS

Title (fr)
MATÉRIAUX EN BOIS À BASE DE TIGE

Publication
EP 4286123 A1 20231206 (EN)

Application
EP 22176100 A 20220530

Priority
EP 22176100 A 20220530

Abstract (en)
Wood is becoming an increasingly important building material due to its renewability and CO₂ storage capacity. This results in high demand of the dominantly used wood species (e.g. spruce, pine). At the same, the share of hardwood species, which are far less utilized in the construction sector, is continuously increasing in central European forests and in particular spruce monocultures are destroyed by draught and bark beetles, due to climate changes. Hence in the near future new wood based products are needed, since common products like Glulam and cross-laminated timber are predominantly based on the softwood species currently under pressure. Moreover, the material yield in saw timber production is very low for softwoods (~60%) and is even lower for hardwoods. The invention is reviving the traditional method for shingle production transferring it in the context of wood based products. This is a non-cutting process, which makes use of the easy fissility of wood parallel to the grain. In contrast to shingle production it serves for the production of up to ~1 m rods in a two-step process.

IPC 8 full level
B27L 7/00 (2006.01); **B27N 1/00** (2006.01); **B27N 3/02** (2006.01); **B27N 3/18** (2006.01); **B27N 5/00** (2006.01)

CPC (source: EP)
B27M 3/0026 (2013.01); **B27N 1/00** (2013.01); **B27N 3/02** (2013.01); **B27N 3/18** (2013.01); **B27N 5/00** (2013.01); **B27L 7/00** (2013.01)

Citation (applicant)
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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)
EP 4286123 A1 20231206; WO 2023232572 A1 20231207

DOCDB simple family (application)
EP 22176100 A 20220530; EP 2023063869 W 20230524