

Title (en)

PROCESS OF CORK PRE-EXPANSION BY SUBMISSION TO MICROWAVE RADIATION

Title (de)

VERFAHREN ZUR VOREXPANSION VON KORK DURCH BESTRAHLUNG MIT MIKROWELLEN

Title (fr)

PROCESSUS DE PRE-EXPANSION DU LIEGE PAR SOUMISSION A UN RAYONNEMENT A MICRO-ONDES

Publication

EP 2125310 A1 20091202 (EN)

Application

EP 08724036 A 20080320

Priority

- PT 2008000012 W 20080320
- PT 10369707 A 20070321

Abstract (en)

[origin: WO2008115086A1] This invention describes a process of pre-expansion by submission to microwave radiation, capable of promoting cork expansion without using foreign substances to the cork system. The expansion achieved by this pre-expansion process shows values that can range between 40% and 85%. The expansion of cork by this pre-expansion process by submission to microwave radiation is achieved in any cork material independently of its shape, origin, quality or pre-treatments already performed, namely, falca cork, virgin or reproduction cork, cork planks, cork residues (resulting from stopper production or cork plank transformation), grinded cork, granulated cork or cork powder, any of them boiled or not boiled, resulting a new cork material with improved properties. The present invention also presents the modifications of the new cork material particularly through the volumetric increase after treatment.

IPC 8 full level

B27K 7/00 (2006.01)

CPC (source: EP)

B27K 5/0055 (2013.01); **B27K 7/00** (2013.01); **B27K 2240/10** (2013.01)

Citation (search report)

See references of WO 2008115086A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008115086 A1 20080925; AT E530310 T1 20111115; EP 2125310 A1 20091202; EP 2125310 B1 20111026; ES 2376152 T3 20120309; PT 103697 A 20080930; PT 2125310 E 20111121

DOCDB simple family (application)

PT 2008000012 W 20080320; AT 08724036 T 20080320; EP 08724036 A 20080320; ES 08724036 T 20080320; PT 08724036 T 20080320; PT 10369707 A 20070321