

Title (en)

FIRE DOORS WITH IMPROVED ACOUSTIC ISOLATION - TECHNOLOGY OF PRODUCTION

Title (de)

FEUERSCHUTZTÜR MIT VERBESSERTER SCHALLISOLIERUNG - TECHNOLOGIE ZUR HERSTELLUNG

Title (fr)

PORTES COUPE-FEU PRÉSENTANT UNE MEILLEURE ISOLATION ACOUSTIQUE - TECHNOLOGIE DE PRODUCTION

Publication

EP 2876244 A1 20150527 (EN)

Application

EP 14460093 A 20141120

Priority

EP 14460093 A 20141120

Abstract (en)

A fire door with increased sound insulation - the manufacturing process characteristic in that on a corrugated cardboard (3) a glue pattern (P) is applied preferably polyurethane and preferably regularly spaced, not linearly and not evenly, preferably from 8 to 18 points on the surface of the corrugated cardboard (3), then the corrugated cardboard (3) is engageably connected with the layer of rockwool (2), and then the fabricated element is rotated and on a corrugated cardboard (3) the glue pattern (P) is applied preferably polyurethane and preferably regularly spaced, not linearly and not evenly, preferably from 8 to 18 points on the surface of corrugated cardboard (3), then the corrugated cardboard (3) is engageably connected with the layer of rockwool (4), the fabricated composite sandwich board (K) is used as the inner panel of the door leaf in a standard production process so that on the fabricated steel profile of sash cover (1) the glue is applied and then the woodframe of laminated wood is inserted, then the composite sandwich board (K) is inserted, and then on the upper surface of the composite sandwich board (K) and the woodframe the glue is applied, and then the steel profile of sash cover (5) is slid over closing the construction of the door leaf, in the next step the fabricated door panel is placed in a heat press at least for 7 minutes.

IPC 8 full level

E06B 3/82 (2006.01); **E06B 3/70** (2006.01); **E06B 5/16** (2006.01); **E06B 5/20** (2006.01)

CPC (source: EP)

E06B 3/7015 (2013.01); **E06B 3/82** (2013.01); **E06B 3/825** (2013.01); **E06B 5/20** (2013.01); **E06B 5/16** (2013.01); **E06B 2003/7019** (2013.01); **E06B 2003/7025** (2013.01); **E06B 2003/7032** (2013.01)

Citation (applicant)

CN 202810575 U 20130320 - YINGKOU SPRING PORT IND CO LTD

Citation (search report)

- [I] GB 382325 A 19321027 - JOSEPH JAY BAMBERGER
- [I] FR 2699207 A1 19940617 - MALERBA DUGELET [FR]

Cited by

CN107476741A; EP3786411A1; WO2024002458A1

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

DOCDB simple family (publication)

EP 2876244 A1 20150527; **EP 2876244 B1 20180411**; HU E038303 T2 20181029; PL 2876244 T3 20181130

DOCDB simple family (application)

EP 14460093 A 20141120; HU E14460093 A 20141120; PL 14460093 T 20141120