Title (en)

DOOR LEAF COMPRISING AT LEAST ONE STONE COVER PLATE, PREFERABLY FOR AN INTERIOR DOOR, AND METHOD FOR PRODUCING THE SAME

Title (de)

TÜRBLATT MIT MINDESTENS EINER DECKPLATTE AUS STEIN, VORZUGSWEISE FÜR EINE ZIMMERTÜR UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

VANTAIL DE PORTE COMPORTANT AU MOINS UN PANNEAU DE RECOUVREMENT EN PIERRE, DESTINE DE PREFERENCE A UNE PORTE INTERIEURE, ET PROCEDE DE PRODUCTION DUDIT VANTAIL DE PORTE

Publication

EP 1446547 B2 20130619 (DE)

Application

EP 02779195 A 20021030

Priority

- DE 0204049 W 20021030
- DE 10155290 A 20011102

Abstract (en)

[origin: US2005066616A1] The invention relates to a door leaf, preferably for an interior door, and to a method for producing the same. The aim of the invention is to provide a door leaf for a double-wing door or revolving door, which is relatively light-weight and stable and which can be opened using normal force. The outer layer should consist of a layer that is break-proof, scratch-resistant and not susceptible to shocks and should be securely linked with the subject layer without complications. The use of water should be possible during the production of the door without damaging the door leaf. According to the invention, cover plates are glued onto the entire surface of both sides of an inner layer that has a suitable size for a double-wing door or revolving door. At least one of the one-piece cover plates consists of natural stone or artificial stone. During production of the door leaf the inner layer is foamed from high-resistance plastic foam in a mold and is removed from the mold after setting and then glued together with the cover plates. The cover plates are cut down to minimum thicknesses and/or ground down (calibrated). Alternatively, the inner layer is foamed from high-resistance plastic foam in a mold. The cover plates are first inserted in the mold at a distance to each other and then foamed to the inner layer. After setting, the door leaf is removed from the mold and the cover plates are cut down to minimum thicknesses and/or ground down (calibrated).

IPC 8 full level

E06B 3/70 (2006.01)

CPC (source: EP US)

E06B 3/7001 (2013.01 - EP US); E06B 2003/7023 (2013.01 - EP US); E06B 2003/7051 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03040509 A1 20030515; AT E440203 T1 20090915; DE 10155290 A1 20030522; DE 10295141 D2 20040923; DE 50213784 D1 20091001; EP 1446547 A1 20040818; EP 1446547 B1 20090819; EP 1446547 B2 20130619; RU 2004116912 A 20050910; US 2005066616 A1 20050331

DOCDB simple family (application)

DE 0204049 W 20021030; AT 02779195 T 20021030; DE 10155290 A 20011102; DE 10295141 T 20021030; DE 50213784 T 20021030; EP 02779195 A 20021030; RU 2004116912 A 20021030; US 49432104 A 20041018