

Title (en)
METHOD FOR THE PRODUCTION OF A METAL SHEET DOOR PANEL AND DOOR PANEL PRODUCED ACCORDING TO SAID METHOD

Title (de)
VERFAHREN ZUM HERSTELLEN EINES METALLBLECHTÜRBLATTS SOWIE DAMIT HERSTELLBARES TÜRBLATT

Title (fr)
PROCEDE DE PRODUCTION D'UN VANTAIL DE PORTE EN TOLE METALLIQUE ET VANTAIL DE PORTE POUVANT ETRE PRODUIT PAR CE PROCEDE

Publication
EP 1472429 B1 20090325 (DE)

Application
EP 03702312 A 20030108

Priority
• DE 0300037 W 20030108
• DE 10204638 A 20020205

Abstract (en)
[origin: WO03067012A1] The invention relates to a method for producing a door panel, particularly in a fire-proof embodiment, with metal sheets. The inventive door panel comprises a case (1) which is made of sheet metal and forms one face (6) of the door panel as one door panel element and a cover (2) which is made of sheet metal and forms the other face (7) of the door panel as another door panel element. The two door panel elements (1, 2) are welded together in edge areas (3, 4) thereof. An edge area (4) of the first door panel element (2), which has at least one bend (19, 20), overlaps and encompasses an edge area (3) of the second door panel element (1). In order to simplify the production method while keeping costs low and ensuring suitability for the production of fire-proof doors, the inventive method comprises the following sequence of steps: a) the door panel element (1, 2) are joined, especially placed or slid on top of each other, and the edge area (4) of the first door panel element (2) is bent such that said edge area (4) at least partly overlaps and encompasses the edge area (3) of the second door panel element (1); and b) the overlapping edge areas (3, 4) are welded together from the outside by means of beam welding. The invention also relates to a door panel produced according to the inventive method.

IPC 8 full level
E06B 3/82 (2006.01); **B21D 39/02** (2006.01); **E06B 5/16** (2006.01)

CPC (source: EP)
B21D 39/021 (2013.01); **E06B 3/827** (2013.01)

Cited by
DE102010049762B3; EP2447458A2

Designated contracting state (EPC)
AT DE ES FR IT

DOCDB simple family (publication)
WO 03067012 A1 20030814; AT E426728 T1 20090415; AU 2003205510 A1 20030902; DE 10204638 A1 20030821; DE 10204638 B4 20041021; DE 10390389 D2 20050127; DE 50311335 D1 20090507; EP 1472429 A1 20041103; EP 1472429 B1 20090325; ES 2320987 T3 20090601; PL 212665 B1 20121130; PL 374088 A1 20050919

DOCDB simple family (application)
DE 0300037 W 20030108; AT 03702312 T 20030108; AU 2003205510 A 20030108; DE 10204638 A 20020205; DE 10390389 T 20030108; DE 50311335 T 20030108; EP 03702312 A 20030108; ES 03702312 T 20030108; PL 37408803 A 20030108