

Title (en)

Isostatic die, particularly for ceramic tiles and relative method.

Title (de)

Verfahren und Form zum isostatischen Pressen, insbesondere zum Herstellen von Keramikfliesen.

Title (fr)

Méthode et matrice de pressage isostatique, en particulier pour la fabrication de carreaux en céramique.

Publication

**EP 0620089 A3 19950315 (EN)**

Application

**EP 94200624 A 19940311**

Priority

- IT MO930028 A 19930317
- IT MO930068 A 19930521
- IT MO930123 A 19930929
- IT MO930159 A 19931215

Abstract (en)

[origin: EP0620089A2] The isostatic die for pressing items, in particular ceramic tiles, makes for greater uniformity of pressing by compensating for differences of density occurring when loading the matrix with the powders to be pressed; said die consists of an elastic membrane (5), delimiting externally a cavity in the punch or in the matrix, the membrane being connected to elements (1; 3; 18; 103a; 111; 128; 129; 208; 316) for controlling deformation, among which is a plate (18; 111) attached in a predetermined way to the membrane (5) and/or to the cavity of the matrix and/or of the punch; its use is foreseen in establishments for the manufacture of ceramic items.

IPC 1-7

**B28B 3/02; B28B 3/00**

IPC 8 full level

**B28B 3/00** (2006.01); **B28B 7/34** (2006.01); **B30B 5/02** (2006.01); **B30B 11/00** (2006.01); **B30B 15/02** (2006.01)

CPC (source: EP)

**B28B 3/003** (2013.01); **B28B 7/346** (2013.01); **B30B 5/02** (2013.01); **B30B 11/001** (2013.01); **B30B 15/024** (2013.01)

Citation (search report)

- [A] US 4937025 A 19900626 - FOSTER ROBERT D [US], et al
- [A] US 4370120 A 19830125 - FOSTER ROBERT D [US], et al
- [A] GB 1160590 A 19690806 - YUKEN KOGYO CO LTD [JP]
- [AP] EP 0570038 A1 19931118 - MASS SPA [IT]
- [AP] EP 0556163 A1 19930818 - SICHENIA GRUPPO CERAMICHE S P [IT]
- [A] EP 0400704 A2 19901205 - MASS SPA [IT]

Cited by

EP2586580A1; ITRE20090112A1; ITMI20131699A1; DE19629413A1; ITRM20100294A1; IT202100014210A1; DE19731146C1; IT201600079937A1; ITPD20120277A1; CN107139315A; EP0759346A1; EP2548707A1; ITMO20110174A1; EP0701889A3; EP1958745A3; EP2397292A1; ITMO20100183A1; IT201700036509A1; EP0780202A3; EP1704975A3; ITMI20111917A1; US8647107B2; WO2009101500A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0620089 A2 19941019; EP 0620089 A3 19950315; EP 0620089 B1 19961211**; AT E146115 T1 19961215; DE 69401084 D1 19970123; DE 69401084 T2 19970710; EP 0720896 A1 19960710; EP 0720896 B1 19971203; EP 0736363 A2 19961009; EP 0736363 A3 19970205; EP 0736363 B1 19971203; ES 2097607 T3 19970401; ES 2111409 T3 19980301; ES 2112073 T3 19980316

DOCDB simple family (application)

**EP 94200624 A 19940311**; AT 94200624 T 19940311; DE 69401084 T 19940311; EP 96200762 A 19940311; EP 96201446 A 19940311; ES 94200624 T 19940311; ES 96200762 T 19940311; ES 96201446 T 19940311