

Title (en)
ISOSTATIC PRESS TOOL FOR THE PRODUCTION OF STEEP-WALLED POT-SHAPED ARTICLES FROM GRANULAR CERAMIC MATERIAL

Title (de)
PRESSWERKZEUG ZUM ISOSTATISCHEN PRESSEN STEILWANDIGER TOPFFÖRMIGER GEGENSTÄNDE AUS KERAMISCHEM GRANULAT

Title (fr)
MOULE DE COMPRESSION ISOSTATIQUE POUR LA PRODUCTION D'ARTICLES EN FORME DE POTS A PAROI ABRUPTTE A PARTIR DE GRANULE CERAMIQUE

Publication
EP 0690774 A1 19960110 (DE)

Application
EP 95907605 A 19950125

Priority
• DE 4402251 A 19940126
• EP 9500262 W 19950125

Abstract (en)
[origin: DE4402251C1] For the production of steep-walled pot-shaped articles (90), such as flower pots or similar products, the invention calls for granular materials (80) to be introduced into a press and subsequently compressed isostatically by a pressing tool with a punch (20), a die (50) and a membrane (60) located between the two, the membrane forming together with the punch (20) a loading chamber which can be filled with granular material (80) and together with the die (50) a pressure chamber which can be brought under pressure using compressed fluid. The punch (20) is located below the die (80) and includes a centre element (30) plus a closure element (40) which extend coaxially substantially vertically upwards together. The centre element (30) has a widened head (32) whose top surface (34) is always coplanar with the surrounding top surface (22) of the punch (20). The closure element (40) is tubular in shape and forms together with the centre element (30) an annular filling channel (76) through which the granular material (80) can be introduced. When the closure element (40) is in its closed position, its end (42) nearest the loading chamber forms a seal with the head (32) of the centre element (30). This pressing tool can be used to produce large as well as small pot-shaped articles rapidly with simple equipment in trouble-free operation.

IPC 1-7
B28B 3/00; B28B 3/02; B28B 5/08; B28B 13/02

IPC 8 full level
B28B 3/00 (2006.01); **B28B 3/02** (2006.01); **B28B 5/08** (2006.01); **B28B 13/02** (2006.01); **B30B 11/00** (2006.01); **B30B 15/30** (2006.01)

CPC (source: EP)
B28B 3/003 (2013.01); **B28B 13/0215** (2013.01); **B30B 11/001** (2013.01); **B30B 15/302** (2013.01)

Citation (search report)
See references of WO 9520474A1

Designated contracting state (EPC)
DE ES FR IT PT

DOCDB simple family (publication)
DE 4402251 C1 19950223; CN 1123013 A 19960522; DE 59501684 D1 19980430; EP 0690774 A1 19960110; EP 0690774 B1 19980325; ES 2113733 T3 19980501; WO 9520474 A1 19950803

DOCDB simple family (application)
DE 4402251 A 19940126; CN 95190054 A 19950125; DE 59501684 T 19950125; EP 9500262 W 19950125; EP 95907605 A 19950125; ES 95907605 T 19950125