

## Title (en)

EXTRUDING DIES AND METHOD OF EXTRUDING CERAMIC HONEYCOMB STRUCTURAL BODIES BY USING SUCH EXTRUDING DIES

## Publication

**EP 0294106 A3 19891025 (EN)**

## Application

**EP 88304789 A 19880526**

## Priority

JP 13660387 A 19870530

## Abstract (en)

[origin: EP0294106A2] A die for extruding ceramic honeycomb structural bodies, which each contains at least two through holes with partition walls having a plurality of different thicknesses, comprises shaping channels corresponding to a sectional configuration of the ceramic honeycomb structural bodies, and ceramic body feed holes (3), communicating with the shaping channels (2) at intersecting portions or annular shaping channels portions. The hydraulic diameter of the ceramic body feed holes (3b,3c,3d) communicating with the shaping channels (2b, 2c,2d) producing the thinner partition walls is greater than that of the ceramic body feed holes (3a,3e) communicating with the shaping channels (2a,2c) producing the thicker partition walls. Communicating paths of the ceramic body feed holes (3a,3e) which communicate with the shaping channels (2a,2e) producing the thicker partition walls are bent. This improves the adhesion within the ceramic body.

## IPC 1-7

**B28B 3/20**; **B28B 3/26**

## IPC 8 full level

**B28B 3/26** (2006.01); **B28B 3/20** (2006.01)

## CPC (source: EP)

**B28B 3/269** (2013.01)

## Citation (search report)

- [YD] EP 0137572 A1 19850417 - NGK INSULATORS LTD [JP]
- [Y] US 3905743 A 19750916 - BAGLEY RODNEY D
- [Y] EP 0040040 A2 19811118 - CORNING GLASS WORKS [US]
- [Y] EP 0040052 A2 19811118 - CORNING GLASS WORKS [US]
- [Y] US 4368025 A 19830111 - NAITO JUNICHIRO [JP], et al
- [A] FR 2287322 A1 19760507 - PHILIPS NV [NL]
- [A] DE 3521883 A1 19851219 - SAKAI CHEMICAL INDUSTRY CO [JP]
- [A] US 4362495 A 19821207 - NAITO JUNICHIRO, et al
- [A] US 4349329 A 19820914 - NAITO JUNICHIRO, et al
- [A] GB 2095158 A 19820929 - NIPPON SOKEN
- [A] GB 2172840 A 19861001 - HOECHST CERAM TEC AG
- [A] PATENT ABSTRACTS OF JAPAN, vol. 9, no. 290 (M-430)[2013], 16th November 1985; & JP-A-60 129 235 (MATSUSHITA DENKI SANGYO K.K.) 10-07-1985

## Cited by

US5641332A; CN102666080A; EP0402593A1; EP0380232A3; US5308568A; US5759496A; BE1015114A3; DE10243359B4; EP2127836A4; US7163389B2; US8851877B2; US6803087B2

## Designated contracting state (EPC)

BE CH DE GB LI SE

## DOCDB simple family (publication)

**EP 0294106 A2 19881207**; **EP 0294106 A3 19891025**; **EP 0294106 B1 19911113**; DE 3866165 D1 19911219; JP S63299902 A 19881207

## DOCDB simple family (application)

**EP 88304789 A 19880526**; DE 3866165 T 19880526; JP 13660387 A 19870530