

Title (en)  
Manufacture of varistors

Title (de)  
Herstellung von Varistoren

Title (fr)  
Production de varistors

Publication  
**EP 0974984 A1 20000126 (EN)**

Application  
**EP 98650042 A 19980720**

Priority  
• EP 98650042 A 19980720  
• IE S980588 A 19980720

Abstract (en)  
Varistors (46) having a multiphase composition, such as zinc oxide varistors are produced by the cold pressing technique. A binder is introduced into the slurry (5), and the slurry is spray dried (10) to form a powder (11). The powder is conveyed to pressing heads (41) through a heater (23) having heating baffles (26) extending inwardly and downwardly to provide a cascading action as the powder. The baffles (26) uniformly heat the powder to a temperature above the glass transition temperature of the binder by approximately 30 DEG C. The powder and binder is then much more pliable as it is being compressed, resulting in a less brittle pressed disc. This achieves a reduced defect rate. <IMAGE>

IPC 1-7  
**H01C 7/112**

IPC 8 full level  
**H01C 7/112** (2006.01); **H01C 17/30** (2006.01)

CPC (source: EP)  
**H01C 7/112** (2013.01); **H01C 17/30** (2013.01)

Citation (search report)  
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• [AD] US 5004573 A 19910402 - OH MYUNG H [KR], et al  
• [Y] DATABASE WPI Section Ch Week 7805, Derwent World Patents Index; Class L02, AN 78-09562A, XP002086531  
• [Y] YODOGAWA M: "Zinc oxide varistors provide urgent surge control", JEE (JOURNAL OF ELECTRONIC ENGINEERING), AUG. 1987, JAPAN, VOL. 24, NR. 248, PAGE(S) 76 - 81, ISSN 0385-4507, XP002086530  
• [A] PATENT ABSTRACTS OF JAPAN vol. 096, no. 003 29 March 1996 (1996-03-29)

Designated contracting state (EPC)  
AT DE DK ES FR GB GR IE IT NL PT SE

DOCDB simple family (publication)  
**EP 0974984 A1 20000126; EP 0974984 B1 20061004**; IE S80693 B2 19981202; IE S980588 A2 19981202

DOCDB simple family (application)  
**EP 98650042 A 19980720**; IE S980588 A 19980720