Title (en)

CONTROL DEVICE FOR CONTROLLING OVER TIME THE FILLING PRESSURE IN A COMPRESSION MOULDING DIE

Publication

EP 0451172 B1 19921111 (DE)

Application

EP 90900757 A 19891214

Priority

DE 3844334 A 19881230

Abstract (en)

[origin: WO9007406A1] A control device is useful for controlling over time the filling pressure in a compression moulding die (11) during filling with a paste-like or viscous material, in particular in the manufacture of oxide magnets. A pressure probe (14) measures the pressure in the compression moulding die (11) and sends a corresponding pressure signal to a first threshold value stage (19) and, via a differential element, to a second threshold value stage (21). The outputs of the two threshold value stages (19, 21) are connected to a logic gate (22). When the pressure signal from the pressure probe exceeds a first threshold value of the first threshold value stage (19) and at the same time falls below a second threshold value of the second threshold value stage (21), the logic gate (22) generates a trigger signal which triggers a synchronizer (23) connected to the output of the logic gate (22). The holding time of the synchronizer determines the filling pressure. The optimal filling pressure can therefore be predetermined by precise detection of the time at which the filling pressure is reached. This results in short working cycles, simple predetermination of the pressure and a substantial reduction in the number of defective pieces.

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IPC 8 full level

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CPC (source: EP KR US)

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