

Title (en)

Method for acknowledging operation phase of gas venting device in injection molding apparatus and acknowledging means therefor.

Title (de)

Verfahren zur Rückmeldung der Betätigungsphase einer Gasabzugsanordnung bei einer Einspritzformmaschine und Rückmeldeanordnungen dafür.

Title (fr)

Procédé pour la reconnaissance d'une phase d'opération d'un dispositif pour évent de gaz dans un appareil de moulage d'injection et moyens pour sa reconnaissance.

Publication

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Application

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Priority

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Abstract (en)

In an injection molding apparatus, provided are a main die-casting section, a gas venting arrangement for discharging gas from a mold cavity, and means for acknowledging operation mode of the gas venting arrangement. The gas venting arrangement has a gas vent control valve for opening and closing a gas vent passage in communication with the mold cavity. The acknowledging means checks actual period starting from a molten metal detection at the gas vent passage and ending at a timing of complete closure of the gas vent control valve. A comparator is provided for comparing the actual period with a normal set period. If the actual period is outside the normal period, alarm signal is generated for notifying an operator of any abnormality in the gas venting arrangement.

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CPC (source: EP)

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Citation (search report)

- [A] DE 3834777 A1 19890420 - RYOBI LTD [JP]
- [A] DE 3912006 A1 19891130 - RYOBI LTD [JP]
- [A] EP 0268113 A2 19880525 - UBE INDUSTRIES [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 13, no. 204 (M-825)(3552), 15 May 1989; & JP-A-1027757 (AISIN SEIKI) 30.01.1989
- [AD] PATENT ABSTRACTS OF JAPAN vol. 8, no. 258 (M-340)(1695), 27 November 1984; & JP-A-59130670 (TOSHIBA) 27.07.1984
- [AD] PATENT ABSTRACTS OF JAPAN vol. 11, no. 218 (M-607)(2665), 15 July 1987; & JP-A-6234657 (TOYOTA) 14.02.1987

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JP2020075288A; EP1266707A1; CN103111598A; US7481642B2; US7072735B2; US7293981B2; WO02100573A1; US7632450B2; US7165958B2

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