

Title (en)

Hot melt adhesive pump with ported gears.

Title (de)

Pumpe für Heisserschmelzklebstoffe mit Durchlässe aufweisenden Zahnrädern.

Title (fr)

Pompe pour colle à fusion à chaud avec des roues dentées présentant des passages.

Publication

EP 0169307 A2 19860129 (EN)

Application

EP 85103674 A 19850327

Priority

US 61194584 A 19840518

Abstract (en)

A hot melt adhesive pump having a first stage gear pump for metering molten hot melt adhesive into a second stage gear pump where gas is mixed and driven into solution with the adhesive is provided with ports extending between opposed gear faces permitting the leakage of adhesive under pressure between gear faces. Pressure imbalances which might otherwise exist due to the accumulation of hot melt adhesive in an interface between the gear faces and adjacent surfaces, e.g., a pair of plates, between which the gears are sandwiched, are alleviated because adhesive under pressure in this interface can pass through the ports, thereby balancing the thrust forces on the opposed gear faces. The result is reduced gear and end plate wear and increased pump life.

IPC 1-7

F04C 2/18; F04C 13/00; F04B 15/02; F04B 15/04

IPC 8 full level

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CPC (source: EP)

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EP 0169307 A2 19860129; **EP 0169307 A3 19870107**; AU 4227285 A 19851121; DE 169307 T1 19860724; JP H0811957 B2 19960207; JP S611884 A 19860107

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