

Title (en)

Geared machine with low pressure connection deviating from the circular form

Title (de)

Zahnradmaschine mit von der Kreisform abweichendem Niederdruckanschluss

Title (fr)

Machine à roue dentée pourvue d'un raccord basse pression déviant de la forme circulaire

Publication

**EP 2711552 B1 20190227 (DE)**

Application

**EP 13181924 A 20130828**

Priority

DE 102012217115 A 20120924

Abstract (en)

[origin: EP2711552A2] The gear machine has housing having high and low pressure terminals (33). A notional boundary line (80) assigned to externally intermeshing gear wheels (50) on inner circumferential face of housing runs parallel to line (83) of contact between gear tooth tips of wheels and inner circumferential face. The cross sectional shape of low-pressure terminal deviates from circular shape such that cross sectional area overlapping wheels is greater than that of notional, circular low-pressure terminal overlapping wheels at minimum distance from boundary lines.

IPC 8 full level

**F04C 2/18** (2006.01); **F04C 15/06** (2006.01); **F04C 2/08** (2006.01)

CPC (source: EP US)

**F04C 2/088** (2013.01 - US); **F04C 2/18** (2013.01 - EP US); **F04C 15/06** (2013.01 - EP US); **F04C 2250/101** (2013.01 - EP US)

Designated contracting state (EPC)

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DOCDB simple family (publication)

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US 2014086779 A1 20140327; US 9140258 B2 20150922

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