

Title (en)

Gear train for driving a screw compressor with means for speed variation.

Title (de)

Zahnradtriebwerk zum Antreiben eines Schraubenkompressors mit Mitteln zur Drehzahländerung.

Title (fr)

Système de transmission à engrenages pour compresseur à vis avec des moyens de variation de la vitesse.

Publication

EP 0005327 A1 19791114 (EN)

Application

EP 79300615 A 19790412

Priority

GB 1553378 A 19780419

Abstract (en)

A screw compressor plant has an electric motor for driving the compressor through a gear train. The gear train includes two parallel shafts connected respectively to the male and female rotors of the compressor. Each shaft includes a clutch (58, 59) and a gear (56, 57). The gears mesh and also mesh with a third gear (55) fixed to the output shaft of the motor. Control means are provided for operating the clutches to selectively connect the motor to either the male or female rotor and the gear ratios are selected so that two operating conditions are thereby provided for the compressor, a full speed condition and a part speed condition. The control means is responsive to pressure signals from a sensor positioned in the output line of a receiver to which compressed gas from the compressor is delivered.

IPC 1-7

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CPC (source: EP)

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Citation (search report)

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