

Title (en)

ELECTROMAGNETIC CONTROL VALVE OF A VARIABLE DISPLACEMENT COMPRESSOR

Title (de)

ELEKTROMAGNETISCHES REGELVENTIL EINES VERDICHTERS MIT VARIABLER VERDRÄNGUNG

Title (fr)

VANNE DE CONTRÔLE ÉLECTROMAGNÉTIQUE D'UN COMPRESSEUR À DÉPLACEMENT VARIABLE

Publication

EP 3059445 B1 20200624 (EN)

Application

EP 16154786 A 20160209

Priority

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- JP 2015234949 A 20151201

Abstract (en)

[origin: EP3059445A1] A control valve (1) includes a shaft (68) driven in a direction of an axis line to transmit a driving force of a solenoid (3) to a valve element (24), and a vibration absorbing member (100) having viscoelasticity and being set between a shaft support member (72) and the shaft (68). During stationary control of a valve opening degree, the vibration absorbing member (100) dynamically deforms following vibration of the shaft (68) accompanying PWM control. A material and a structure of the vibration absorbing member (100) are set such that, during the stationary control, a vibration amplitude of the shaft (68) is included in a range in which the vibration absorbing member (100) and the shaft (68) are not caused to slide relative to each other.

IPC 8 full level

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CPC (source: CN EP)

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Cited by

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