

Title (en)

Apparatus for suppressing torsional vibration of a crank shaft of a diesel engine.

Title (de)

Vorrichtung zur Unterdrückung der Torsionsschwingungen einer Dieselmotorkurbelwelle.

Title (fr)

Dispositif pour supprimer des vibrations de torsion d'un vilebrequin d'un moteur diesel.

Publication

**EP 0447697 B1 19940525 (EN)**

Application

**EP 90250320 A 19901220**

Priority

JP 7195490 A 19900323

Abstract (en)

[origin: EP0447697A2] A suppressing apparatus of torsional vibration of a crank shaft of a diesel engine can effect suppression of a resonant stress by only adjustment of a fuel injection system. The suppressing apparatus of torsional vibration of the crank shaft of the diesel engine adjusts a fuel injection timing and a fuel injection period (injection amount) for each cylinder in the vicinity of a resonant point of torsional vibration properly and varies a characteristic curve of pressure in the cylinder with respect to a crank angle to reduce the magnitude of harmonic components of resonance order of torque added to each cylinder, or adjusts phase differences of the harmonic components for each cylinder and suppresses the resonant stress so as to cancel external force for the vibration mode. <IMAGE>

IPC 1-7

**F02D 41/14**; **F02D 41/34**

IPC 8 full level

**F02D 41/14** (2006.01); **F02D 41/38** (2006.01); **F02D 41/40** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP KR)

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Citation (examination)

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Cited by

KR100940528B1; EP1435446A3; CN100460648C; CN114060195A; US6082330A; CN115031978A; EP1739296A1; CN100422531C; US6065449A; CN104865075A; EP2960477A4; US2014216413A1; EP2716898A4; US9732693B2; US7212900B2; US11459917B2; WO2017117289A1; WO9807971A3; US11131254B2; US11326533B2; WO2005124132A1; WO2005124133A1

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