

Title (en)

An apparatus for cancelling vibrations

Title (de)

Anordnung zur Schwingungsunterdrückung

Title (fr)

Dispositif pour supprimer des vibrations

Publication

**EP 0693747 A2 19960124 (EN)**

Application

**EP 95304332 A 19950621**

Priority

- GB 9414484 A 19940718
- GB 9415763 A 19940804

Abstract (en)

An apparatus for cancelling vibrations comprising: means for providing a reference signal representative of the vibrations to be cancelled; filter means (5) comprising means (13) for resolving the reference signal into its frequency components, means (15) for applying weights to these frequency components, and means (17) for combining the weighted frequency components to provide an output signal of said filter means (5); and actuator means (1) responsive to said output signal to produce vibrations which destructively interfere with the vibrations to be cancelled, said means (13) for resolving utilising N updates of said reference signal to resolve it into its frequency components, said means (13) for resolving being updated by n times between successive resolutions of the reference signal into its frequency components where  $1 < n < N$ , there being a correlation between the weights applied by said means (15) for applying so as to reduce discontinuity in the operation of said filter means (5). <MATH>

IPC 1-7

**G10K 11/178**

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

- GB 2054999 A 19810218 - NAT RES DEV
- EP 0043565 A1 19820113 - HITACHI LTD [JP]
- GB 2107960 A 19830505 - CHAPLIN GEORGE BRIAN BARRIE

Cited by

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Designated contracting state (EPC)

DE ES FR GB IT NL SE

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**EP 0693747 A2 19960124**; **EP 0693747 A3 19971229**; CA 2154027 A1 19960119; JP H0883086 A 19960326

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