

Title (en)

DEVICE FOR DAMPING VIBRATIONS IN A PART-FACE CUTTING MACHINES

Title (de)

EINRICHTUNG ZUM DÄMPFEN VON SCHWINGUNGEN VON TEILSCHNITTSCHRÄMMASCHINEN

Title (fr)

DISPOSITIF DESTINE A AMORTIR LES VIBRATIONS DE HAVEUSES DE TAILLE PARTIELLE

Publication

EP 0943051 B1 20010117 (DE)

Application

EP 97945654 A 19971120

Priority

- AT 9700255 W 19971120
- AT 211996 A 19961204

Abstract (en)

[origin: WO9825007A1] The invention relates to a device for damping vibrations in part-face cutting machines (1), comprising an extension arm (3) pivoting round two axes (5, 9) with cutting tools (7) rotationally fitted thereon. Said device has a hydraulic regulating drive mechanism (6) which is impinged upon by fluid via a valve arrangement. Sensors (13 or 14) are provided in order to detect vibrations, accelerations, load and/or position of the cutting arm (3) and which trigger a corresponding compensation of the regulating drive mechanism formed by the hydraulic cylinder piston units (6) by means of a control device (16). The position of the extension arm (3) is thus kept basically constant round the vertical rotational axis (9) when the swing gear swivels.

IPC 1-7

E21C 35/24; **E21C 27/24**

IPC 8 full level

E21C 27/24 (2006.01); **E21C 31/12** (2006.01); **E21C 35/24** (2006.01)

CPC (source: EP)

E21C 27/24 (2013.01); **E21C 31/12** (2013.01); **E21C 35/24** (2013.01)

Designated contracting state (EPC)

AT DE ES GB IT

DOCDB simple family (publication)

WO 9825007 A1 19980611; AT 407071 B 20001227; AT A211996 A 20000415; AT E198781 T1 20010215; AU 5109798 A 19980629; AU 731456 B2 20010329; DE 59702937 D1 20010222; EP 0943051 A1 19990922; EP 0943051 B1 20010117; ES 2154475 T3 20010401; ZA 9710825 B 19980612

DOCDB simple family (application)

AT 9700255 W 19971120; AT 211996 A 19961204; AT 97945654 T 19971120; AU 5109798 A 19971120; DE 59702937 T 19971120; EP 97945654 A 19971120; ES 97945654 T 19971120; ZA 9710825 A 19971202