

Title (en)

Diagnostic method and apparatus for vacuum pumps

Title (de)

Diagnoseverfahren und -Gerät für Vakuumpumpen

Title (fr)

Procédé et dispositif de diagnostic pour pompes à vide

Publication

EP 0851127 A2 19980701 (EN)

Application

EP 97202185 A 19970712

Priority

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Abstract (en)

The invention relates to a diagnostic method and apparatus for detecting in advance the wear of rotatable components in vacuum pumps, said pumps comprising gas pumping stages formed by rotor disks (113, 114) secured to a rotatable shaft (123) driven by an electric motor, wherein a warning signal for either a pre-alarm or an alarm wear condition is generated when predetermined wear conditions are reached, by expanding the signal from an accelerometer in contact with the vacuum pump into a Fourier spectrum. <IMAGE>

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CPC (source: EP)

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Citation (applicant)

EP 0445855 A1 19910911 - VARIAN SPA [IT]

Cited by

WO2008012150A1; CN104781558A; JP2019214993A; US2010054957A1; EP3557072A1; GB2507500A; GB2507500B; CN106321464A; GB2551337A; CN109563840A; US11359636B2; US9828992B2; US9822788B2; WO2017216514A1; WO2014068277A1; WO2014068276A1; EP3933355A1; WO2022002548A1; KR20170005226A; US9689773B2; US10024328B2; FR3117435A1; WO2022129711A1; TWI751170B; EP2314877B1

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