

Title (en)

Method and apparatus to control a turbo compressor to prevent surge

Title (de)

Verfahren und Einrichtung zum Regeln eines Turbokompressors zur Verhinderung des Pumpens

Title (fr)

Procédé et appareil de contrôle d'un turbo-compresseur pour éviter le pompage

Publication

**EP 1116885 B1 20070110 (DE)**

Application

**EP 01100755 A 20010112**

Priority

DE 10001365 A 20000114

Abstract (en)

[origin: EP1116885A2] The method involves producing a difference signal from a continuously detected compressor operating parameter and a demand value depending on the working point position in a characteristic field and producing a regulator input signal via a delay element to control a valve branching off the compressor outlet. Different delay time constants are used for increasing and decreasing difference signal for slower changes towards the pump limiting line. Independent claims are also included for the following: a device for regulating a turbo compressor to prevent pumping.

IPC 8 full level

**F04D 27/02** (2006.01)

CPC (source: EP US)

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Cited by

CN113931854A; WO2023208459A1

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DOCDB simple family (publication)

**EP 1116885 A2 20010718; EP 1116885 A3 20030326; EP 1116885 B1 20070110;** DE 10001365 A1 20010719; DE 50111831 D1 20070222; US 2001014280 A1 20010816; US 6558113 B2 20030506

DOCDB simple family (application)

**EP 01100755 A 20010112;** DE 10001365 A 20000114; DE 50111831 T 20010112; US 75702101 A 20010108