

Title (en)
COMPRESSOR SURGE CONTROL

Publication
EP 0140499 A3 19860716 (EN)

Application
EP 84305463 A 19840810

Priority
US 53977383 A 19831007

Abstract (en)
[origin: EP0140499A2] A surge control system (18) for a compressor anticipates the actual surge condition and initiates anti-surge protection in proportion to the magnitude of the anticipated surge condition. This is done by providing a feed forward signal from a control station (20) to a summing station (48), along with a normally generated surge control line point, to offset this point by an amount determined by the feed forward signal. The offset point is used as an input to a controller (56) for controlling a bypass valve (28) in a bypass loop around the compressor.

IPC 1-7
F04D 27/02

IPC 8 full level
F04D 27/02 (2006.01)

CPC (source: EP KR)
F04D 27/02 (2013.01 - KR); **F04D 27/0207** (2013.01 - EP); **F04D 27/0284** (2013.01 - EP)

Citation (search report)

- ISA TRANSACTIONS, vol. 14, no. 2, 1975, pages 172-175, US; S.W. SWEET: "A look at two surge control systems"
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- ADVANCES IN INSTRUMENTATION, vol. 31, no. 1, 1976, pages 587/1-587/15, PITTSBURGH, US; J.D. WARNOCK: "Typical compressor control configuration"

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DE3544822A1; CN102635565A; NO333438B1; CN113591223A; DE3544821A1; EP0230009A3; EP0871818A4; US9416790B2

Designated contracting state (EPC)
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