

Title (en)

Suction valve with removal gripper

Title (de)

Saugventil mit Abhebegreifer

Title (fr)

Soupape d'aspiration avec griffes de levage

Publication

EP 1936194 A1 20080625 (DE)

Application

EP 07120564 A 20071113

Priority

AT 21282006 A 20061222

Abstract (en)

The valve has a valve guard (2) with an unloader (22) that is arranged in a non-rotational manner relative to a valve seat (3). An annular flow passage (20) is arranged with respect to the valve seat. A cylinder-shaped lock sleeve (25) is provided with a base area with a non-circular outer contour. The unloader is provided with a central section (28) formed with an axial through-going concentric opening. The central section of the unloader is arranged on the lock sleeve for guidance and anti-rotation of the unloader.

Abstract (de)

Um den Abhebegreifer verdrehgesichert anzuordnen, wird erfindungsgemäß vorgeschlagen, am Ventilsitz 3 eine verdrehgesichert und konzentrisch angeordnete Verdrehsicherungshülse 20 mit einer nicht kreisrundförmigen Außenkontur vorzusehen, auf der der Abhebegreifer 22 mit einem entsprechend gegengleich geformten radial zentralen Abschnitt 28 angeordnet wird.

IPC 8 full level

F04B 39/08 (2006.01)

CPC (source: EP US)

F04B 39/08 (2013.01 - EP US); **F04B 49/243** (2013.01 - EP US); **Y10T 137/7865** (2015.04 - EP US); **Y10T 137/7904** (2015.04 - EP US)

Citation (search report)

- [DA] EP 0686770 A2 19951213 - HOERBIGER VENTILWERKE AG [AT]
- [DA] DE 4431512 A1 19960307 - HOERBIGER VENTILWERKE AG [AT]
- [A] US 6142037 A 20001107 - BOTOSAN VALENTIN [US], et al
- [A] DE 1114975 B 19611012 - KARL RUD DIENES FABRIKATIONSGE

Cited by

EP2466137A1; AT509878A4; AT509878B1; CN102562536A; EP2876303A3

Designated contracting state (EPC)

DE IT

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1936194 A1 20080625; EP 1936194 B1 20090916; AT 504695 A1 20080715; AT 504695 B1 20081215; DE 502007001534 D1 20091029; US 2008149195 A1 20080626; US 8500420 B2 20130806

DOCDB simple family (application)

EP 07120564 A 20071113; AT 21282006 A 20061222; DE 502007001534 T 20071113; US 44507 A 20071212