

Title (en)

VALVE HAVING A DEFORMABLE PART AND USE OF THE VALVE

Title (de)

VENTIL MIT VERFORMBAREM TEIL UND VERWENDUNG DES VENTILS

Title (fr)

VANNE À PARTIE DÉFORMABLE ET UTILISATION DE LA VANNE

Publication

EP 2681547 A1 20140108 (DE)

Application

EP 12718557 A 20120301

Priority

- AT 2782011 A 20110302
- AT 2012050027 W 20120301

Abstract (en)

[origin: WO2012116390A1] The invention relates to a valve, in particular a sample injection valve, for a device (1) for synthesizing, analyzing, and/or separating, comprising at least three liquid connections (3', 4', 5', 6', 7', 7''), a housing (8) as a valve part, and a valve body (9) as another valve part for selectively connecting the liquid connections (3', 4', 5', 6', 7', 7'') by means of at least one flow channel (10, 11, 12) bounded at least partially by sealing surfaces (10', 11', 12') between the housing (8) and the valve body (9), wherein the housing (8) and/or the valve body (9) are supported in such a way as to be movable relative to each other. In order to create a one-way valve, at least one valve part (8 or 9) adjacent to the sealing surface (10', 11', 12') and made of a plastic material can be plastically deformed according to a relative position (9'), in particular of the valve body (9), in order to be able to withstand the elevated pressure loads in the flow channel (10, 11, 12) in a liquid-tight manner in said relative position (9'), in particular of the valve body (9).

IPC 8 full level

G01N 30/20 (2006.01); **F16K 11/074** (2006.01); **F16K 11/076** (2006.01); **F16K 15/14** (2006.01); **G01N 35/10** (2006.01)

CPC (source: EP US)

F16K 11/00 (2013.01 - US); **F16K 11/0743** (2013.01 - EP US); **G01N 30/20** (2013.01 - EP US); **G01N 30/26** (2013.01 - US); **G01N 35/1097** (2013.01 - EP US); **G01N 2030/201** (2013.01 - EP US); **G01N 2030/202** (2013.01 - EP US); **Y10T 137/86493** (2015.04 - EP US)

Citation (search report)

See references of WO 2012116390A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012116390 A1 20120907; AT 511185 A1 20120915; AT 511185 B1 20131015; CN 103403540 A 20131120; EP 2681547 A1 20140108; JP 2014508934 A 20140410; US 2014053930 A1 20140227; US 9611942 B2 20170404

DOCDB simple family (application)

AT 2012050027 W 20120301; AT 2782011 A 20110302; CN 201280011410 A 20120301; EP 12718557 A 20120301; JP 2013555703 A 20120301; US 201214002401 A 20120301