

Title (en)
CROSS-FLOW FILTRATION INSTALLATION

Title (de)
QUERSTROM-FILTRATIONSANLAGE

Title (fr)
INSTALLATION DE FILTRATION A COURANT TRANSVERSAL

Publication
EP 1492614 A1 20050105 (DE)

Application
EP 03745733 A 20030325

Priority
• CH 0300195 W 20030325
• CH 6062002 A 20020410

Abstract (en)
[origin: WO03084650A1] The invention relates to a cross-flow filtration installation comprising at least one filter element (1) to which a substance mixture from a product tank (2) can be supplied via a supply line (3). Rinsing water can also be supplied to the filter element (1) from a rinsing water tank (14). According to the invention, a supply line shut-off valve (28) is arranged in front of the entrance of the supply line (3) in the filter element (1), and a compressed air line (25) ends on the input side of the filter element (1) and can be blocked by means of a compressed air shut-off valve (26). The supply line shut-off valve (28) is embodied in such a way that it closes automatically in the event of a disturbance, while the compressed air shut-off valve (26) and other valves (9, 11; 12) are embodied in such a way that they automatically open. In the event of disturbances, for example as a result of a power failure, the residue in the filter element (1) is displaced by means of compressed air such that blockages are not created when the installation is not in operation. Operating disturbances caused by blockages of the filter element (1) are thus avoided.

IPC 1-7
B01D 65/02; **B01D 61/22**; **C02F 1/44**; **A23L 2/08**; **A23L 2/74**

IPC 8 full level
A23L 2/08 (2006.01); **A23L 2/74** (2006.01); **B01D 61/14** (2006.01); **B01D 61/18** (2006.01); **B01D 61/20** (2006.01); **B01D 61/22** (2006.01); **B01D 65/02** (2006.01); **C12H 1/075** (2006.01)

CPC (source: EP)
A23L 2/087 (2013.01); **A23L 2/74** (2013.01); **B01D 61/14** (2013.01); **B01D 61/18** (2013.01); **B01D 61/20** (2013.01); **B01D 61/22** (2013.01); **B01D 65/02** (2013.01); **B01D 2321/02** (2013.01); **B01D 2321/185** (2013.01)

Citation (search report)
See references of WO 03084650A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 03084650 A1 20031016; AU 2003210115 A1 20031020; CN 1646210 A 20050727; EP 1492614 A1 20050105; PL 370708 A1 20050530

DOCDB simple family (application)
CH 0300195 W 20030325; AU 2003210115 A 20030325; CN 03808055 A 20030325; EP 03745733 A 20030325; PL 37070803 A 20030325