Title (en)

FILTRATION NET WASHING METHOD AND FILTER FOR USING THAT METHOD

Title (de)

FILTRIERNETZWASCHVERFAHREN UND FILTER ZUR DURCHFÜHRUNG DIESES VERFAHRENS

Title (fr)

PROCÉDÉ DE NETTOYAGE D'UN PANIER DE FILTRATION ET FILTRE UTILISABLE DANS LE CADRE DUDIT PROCÉDÉ

Publication

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Application

EP 12719470 A 20120305

Priority

- PL 39534011 A 20110620
- PL 2012000011 W 20120305

Abstract (en)

[origin: WO2012177153A1] Filtration net washing method characterizes in that the medium passes through a filtration net (7), according to the filtration direction, and after cleaning it is directed to a clean medium outlet (9) and partially compressed, preferably with a pump (2), which is preferably integrated with a filter, and then after the compression it is reversed to the inside of the filter preferably with a lengthened rotary mechanism (5), driven rotary with an electric motor (2a) and/or an integrated pump (2), not touching the filtration net (7), the said mechanism being hollow inside, which through at least one washing ending (12) jets the medium on that net from inside to outside, the touch area of the medium stream with the filtration net (7) is small and is from 0,1 mm2 to 1 cm2, the net (7) washing medium pressure is higher than the filtration pressure in the filter, being up to several hundreds bars, preferably 3-20 bars, the rotary speed at washing medium application being from several rotations/min. up to 10000 rotations/min., preferably 3500 rotations/min., and the process of filtration net (7) washing is conducted without switching off the filter. Filter for using the filtration net washing method, comprising elements with a dirty medium inlet, a clean medium outlet, a sewage outlet and a washing medium inlet, characterizes in that the filter has a lengthened rotary mechanism (5) not touching a filtration net (7) and hollow inside, driven by a power source (2 and/or 2a), passing through a pressure chamber (1), a collecting chamber (3) and a filtration chamber (6), arranged in different order, which mechanism through at least one washing ending (12) jets the medium on that net from inside to outside, and the filtration net (7) length is smaller than the filtration chamber (6) length, the lengthened rotary mechanism (5) is a rotary shaft of a medium compressing pump (2) or of an electric motor (2a), the washing ending (12) is a small aperture, a jet nozzle or a nozzle with an aperture, through which aperture the medium passes at an angle to the shaft (5) rotation axis, and the size of the washing ending (12) is preferably 0,5mm to 1 cm, and the rotary shaft (5) on its length between the pressure chamber (I) and the filtration chamber (6) has a non-through axial hole (5a) and at least one washing ending (12).

IPC 8 full level

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CPC (source: EP)

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Cited by

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