

Title (en)
UNDERSHOT OVERFLOW FILTER

Title (de)
FILTER MIT UNTERSTRÖMENDEM ÜBERLAUF

Title (fr)
FILTRE DE DEBORDEMENT A DEPASSEMENT NEGATIF

Publication
EP 1299600 A4 20030917 (EN)

Application
EP 01949111 A 20010712

Priority

- AU 0100833 W 20010712
- AU PQ871600 A 20000712
- AU PR101200 A 20001026
- AU PR558001 A 20010608

Abstract (en)
[origin: WO0204755A1] A filter (10) for concentrating a fluid stream (72-74) containing particulate matter (74-76) or for filtering from a fluid stream certain material is described. The filter consists of a plurality of solid elements (a, b, c, d) in an array having gaps (g) between adjacent solid elements through which spill flow of the fluid passes. The fluid stream (72-74) and filter (10) are orientated with respect to each other such that the spill flow of fluid through adjacent gaps is bounded by a dividing streamline that terminates on a solid element intermediate adjacent gaps (g). The stream and filter elements are also arranged so that the incidence of the dividing stream line to the plane of the array is such that particulate matter larger than the gaps are deflected out of the spill flow between the gaps. To optimally maintain the incidence at least two chambers are located on the spill flow side of the filter. To further optimise the operation of the filter the one or ore chambers each have spill flow controls sized and positioned to allow spill flow to exit each chamber so as to maintain the incidence. An example of the use for the filter is given in concentrating sewage at locations where sewage overflow would otherwise occur.

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IPC 8 full level
B01D 29/00 (2006.01); **B01D 29/31** (2006.01); **B01D 29/35** (2006.01); **E03F 5/14** (2006.01)

CPC (source: EP KR)
B01D 29/356 (2013.01 - EP); **B01D 29/44** (2013.01 - EP); **E03F 5/14** (2013.01 - EP KR)

Citation (search report)

- [X] WO 9535145 A1 19951228 - BLANCHE PAUL [AU], et al
- [X] WO 9731162 A1 19970828 - NICHOLAS DOUGLAS IAN [AU]
- [X] DE 9108129 U1 19910905
- See references of WO 0204755A1

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