

Title (en)
FILTER SYSTEM AND FILTER ELEMENT HAVING A GLASS FIBER FILTER MEDIUM AND A SINTERED BODY

Title (de)
FILTERSYSTEM UND FILTERELEMENT, MIT EINEM GLASFASERFILTERMEDIUM UND EINEM SINTERKÖRPER

Title (fr)
SYSTÈME DE FILTRATION ET ÉLÉMENT DE FILTRATION COMPORTANT UN MILIEU FILTRANT EN FIBRE DE VERRE ET UN CORPS FRITTÉ

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Application
EP 15725364 A 20150601

Priority

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Abstract (en)
[origin: WO2015185470A1] The invention relates to a filter system (10) having a filter element (14) and a glass fiber filter medium (24). The filter system (10) further comprises a sintered body (34), which prevents unintentionally dissolved constituents (32) of the glass fiber filter medium (24) from leaving the filter system (10). To this end, the sintered body (34) preferably has passages, that is, pores, that are offset transversely to the flow direction of the sintered body (34) such that the constituents (32) of the glass fiber filter medium (24) become wedged together in the pores of the sintered body (34). The recesses of the passages can have an average clearance of more than 10 µm, in particular of more than 20 µm, preferably of more than 30 µm, and particularly preferable of more than 40 µm, in order to keep the flow resistance of the sintered body (34) low. In the filter system (10), a sintered body (34) can be arranged inside the filter element (14) and/or outside the filter element (14). The invention further relates to a filter element having a glass fiber filter medium and a sintered body that is fluidically downstream of the glass fiber filter medium.

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Citation (search report)
See references of WO 2015185470A1

Citation (examination)

- DE 4418033 A1 19951130 - HERDING ENTSTAUBUNG [DE]
- EP 0232848 A2 19870819 - ULTRAFILTER GMBH [DE]
- GB 1199631 A 19700722 - COMMISSARIAT ENERGIE ATOMIQUE [FR]
- SE 311882 B 19690630 - PALL CORP [US]
- DE 3844199 A1 19900705 - KELLER LUFTECHNIK GMBH & CO KG [DE]

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