

Title (en)  
SCREEN FILTER FOR MICROFILTRATION

Title (de)  
SIEBFILTER FÜR MIKROFILTRATION

Title (fr)  
FILTRE À TAMIS POUR MICROFILTRATION

Publication  
**EP 3609596 A4 20210106 (EN)**

Application  
**EP 18785115 A 20180413**

Priority  
• US 201762485051 P 20170413  
• US 2018027478 W 20180413

Abstract (en)  
[origin: WO2018191611A1] A screen filter having a plurality of support rods arranged in longitudinal relationship such that a continuous length of wire can be spirally wrapped about the support rods to define a cylindrical body. Along the length of the cylindrical body, slots are defined between adjacent wires wherein each slot has a slot width that determines an overall filter performance for the screen filter. The screen filter is fabricated such that an average slot width across the length of the cylindrical body is equal to a filter performance rating. The screen filter is fabricated such that the slot width for the cylindrical body has a normal distribution wherein 99.7% of the slot widths are within three standard deviations of the average slot width.

IPC 8 full level  
**B01D 29/31** (2006.01); **B01D 29/33** (2006.01); **B01D 29/48** (2006.01)

CPC (source: EP)  
**B01D 29/33** (2013.01); **B01D 29/48** (2013.01); **B01D 2201/0415** (2013.01)

Citation (search report)  
• [X] US 5618424 A 19970408 - NAGAOKA TADAYOSHI [JP]  
• [X] US 5190102 A 19930302 - ARTERBURY BRYANT A [US], et al  
• [X] WO 03091536 A1 20031106 - NAGAOKA TADAYOSHI [JP]  
• [X] US 2004094038 A1 20040520 - HAHN ADOLF [DE], et al  
• [X] US 4771829 A 19880920 - SPARLIN DERRY D [US]  
• See references of WO 2018191611A1

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 2018191611 A1 20181018**; CN 110740797 A 20200131; EP 3609596 A1 20200219; EP 3609596 A4 20210106

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**US 2018027478 W 20180413**; CN 201880038847 A 20180413; EP 18785115 A 20180413