

Title (en)  
MONOLITHIC MEMBRANE FILTER

Title (de)  
MONOLITHISCH AUFGEBAUTE MEMBRANFILTER

Title (fr)  
FILTRE À MEMBRANE MONOLITHIQUE

Publication  
**EP 4196248 A1 20230621 (DE)**

Application  
**EP 21765855 A 20210816**

Priority

- DE 102020121546 A 20200817
- DE 102020121547 A 20200817
- DE 102020121548 A 20200817
- DE 102020121549 A 20200817
- EP 2021072740 W 20210816

Abstract (en)  
[origin: WO2022038093A1] Disclosed is an additive manufacturing process for manufacturing a part having an at least partially or at least regionally porous material structure, in particular in the form of a filter element or filter device, the process comprising the steps of providing a starting material that is or can be rendered porous, applying said material that is or can be rendered porous, to form the part, and during the application step, adjusting the porosity of the starting material that is or can be rendered porous.

IPC 8 full level  
**B01D 63/02** (2006.01); **B01D 46/24** (2006.01); **B01D 63/06** (2006.01); **B01D 67/00** (2006.01); **B01D 69/10** (2006.01); **B28B 1/00** (2006.01); **B32B 3/12** (2006.01); **B32B 7/02** (2019.01); **C04B 35/56** (2006.01); **C04B 35/58** (2006.01); **C04B 38/00** (2006.01)

CPC (source: EP US)  
**B01D 46/2429** (2013.01 - EP); **B01D 46/24491** (2021.08 - EP US); **B01D 46/24492** (2021.08 - EP); **B01D 46/247** (2013.01 - EP US); **B01D 46/2474** (2013.01 - EP); **B01D 46/2476** (2021.08 - EP); **B01D 46/2484** (2021.08 - EP US); **B01D 46/2496** (2021.08 - EP); **B01D 63/02** (2013.01 - EP US); **B01D 63/066** (2013.01 - EP US); **B01D 67/00415** (2022.08 - EP US); **B01D 67/0067** (2013.01 - EP); **B01D 69/10** (2013.01 - EP US); **B22F 5/10** (2013.01 - EP); **B22F 10/18** (2021.01 - EP); **B28B 1/001** (2013.01 - EP); **C04B 38/0009** (2013.01 - EP); **B33Y 10/00** (2014.12 - US); **B33Y 80/00** (2014.12 - US); **C04B 2111/00181** (2013.01 - EP); **C04B 2111/00793** (2013.01 - EP); **C04B 2111/00801** (2013.01 - EP); **Y02P 10/25** (2015.11 - EP)

C-Set (source: EP)  
**C04B 38/0009 + C04B 35/00 + C04B 38/0054 + C04B 38/0074**

Citation (search report)  
See references of WO 2022038093A1

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

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022038093 A1 20220224**; EP 4196248 A1 20230621; US 2023321607 A1 20231012

DOCDB simple family (application)  
**EP 2021072740 W 20210816**; EP 21765855 A 20210816; US 202118041935 A 20210816