

Title (en)  
SELF-DISINFECTING FACE SHIELD

Title (de)  
SELBSTDESINFIZIERENDER GESICHTSSCHUTZ

Title (fr)  
ÉCRAN FACIAL AUTO-DÉSINFECTANT

Publication  
**EP 4110126 A1 20230104 (EN)**

Application  
**EP 21727067 A 20210419**

Priority  

- US 202063011576 P 20200417
- US 202063019634 P 20200504
- US 202163145801 P 20210204
- US 2021070409 W 20210419

Abstract (en)  
[origin: WO2021212149A1] A face shield (100) includes a transparent face panel (102) configured to extend facing at least a portion of a face of a wearer (200), and has a first surface (136) adapted to be disposed facing the face of the wearer (200) and second surface (138) disposed opposite to the first surface (136). The face panel (102) is protected by a sulfonated polymeric layer (150) on the second surface (138), for killing at least 95% microbes within 30 minutes of contact. The sulfonated polymeric is sufficiently or selectively sulfonated to contain from 10 - 100 mol % sulfonic acid or sulfonate salt functional groups based on the number of monomer units, for killing at least 99% of microbes within 5 minutes of coming into contact with the face panel (102).

IPC 8 full level  
**A41D 13/11** (2006.01)

CPC (source: EP)  
**A41D 13/1161** (2013.01); **A41D 13/1184** (2013.01); **A41D 13/1192** (2013.01)

Citation (search report)  
See references of WO 2021212149A1

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)  
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DOCDB simple family (application)  
**US 2021070409 W 20210419**; AU 2021102028 A 20210419; CN 202180028933 A 20210419; EP 21727067 A 20210419; JP 2022562731 A 20210419