

Title (en)  
234 NM FAR UV C FILTER

Title (de)  
234 NM FERN UV C FILTER

Title (fr)  
FILTRE ANTI-UV LOINTAIN À 234 NM

Publication  
**EP 4199975 A1 20230628 (EN)**

Application  
**EP 21911776 A 20210823**

Priority  

- US 202063069436 P 20200824
- US 202017080390 A 20201026
- US 202117156426 A 20210122
- US 202117193839 A 20210305
- US 202163183937 P 20210504
- US 2021047212 W 20210823

Abstract (en)  
[origin: WO2022139887A1] An excimer bulb assembly including an excimer bulb and a pass filter such that the excimer bulb assembly does not emit substantial UV radiation in wavelengths longer than 231nm, 232nm, 233nm, 234nm or 235nm. The wavelengths are measured at an incident angle of zero (0) degrees to the filter plane. The pass filter is preferably constructed of a plurality of layers of hafnium oxide, and most preferably constructed of less than seventy five (75) layers of hafnium oxide. The excimer bulb, pass filter, and two electrical connectors may be adapted to form a cartridge which may be adapted to swivel along its main axis. The cartridge may further include a smart chip. The smart chip may retain and store information regarding the assembly and preferably retains hours of use of the excimer bulb.

IPC 8 full level  
**A61L 2/10** (2006.01); **A61L 9/20** (2006.01); **H01S 3/225** (2006.01)

CPC (source: EP)  
**G02B 5/283** (2013.01); **H01J 61/305** (2013.01); **H01J 65/046** (2013.01); **A61L 2/10** (2013.01); **A61L 2202/11** (2013.01)

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Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022139887 A1 20220630**; CN 116348155 A 20230627; EP 4199975 A1 20230628; JP 2023541813 A 20231004

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