

Title (en)
EUV COLLECTOR

Title (de)
EUV-KOLLEKTOR

Title (fr)
COLLECTEUR EUV

Publication
EP 4176314 A1 20230510 (DE)

Application
EP 21733930 A 20210614

Priority
• DE 102020208298 A 20200702
• EP 2021065907 W 20210614

Abstract (en)
[origin: WO2022002566A1] An EUV collector (11) has a reflection surface (20) having a basic mirror shape of a sector of a sphere. A diffraction grating (22) for EUV used light (10) is applied to the reflection surface (20). The diffraction grating (22) is embodied in such a way that the EUV used light (10) emanating from a sphere center (21) of the sector of the sphere is diffracted toward a collecting region (23) by the diffraction grating (22). The collecting region (23) is at a distance spatially from the sphere center (21). This results in an EUV collector which makes possible an effective separation between EUV used light that is intended to be collected with the aid of the collector and extraneous light having a wavelength that differs from a used light wavelength.

IPC 8 full level
G03F 7/20 (2006.01); **H05G 2/00** (2006.01)

CPC (source: EP KR US)
G02B 5/09 (2013.01 - US); **G02B 5/1838** (2013.01 - US); **G02B 19/0019** (2013.01 - US); **G02B 19/0095** (2013.01 - US);
G03F 7/70033 (2013.01 - EP KR US); **G03F 7/70158** (2013.01 - EP KR); **G03F 7/70166** (2013.01 - US); **G03F 7/70175** (2013.01 - EP KR US);
G03F 7/702 (2013.01 - US); **G03F 7/70575** (2013.01 - EP KR); **G21K 1/062** (2013.01 - EP KR); **G21K 1/067** (2013.01 - EP KR);
G21K 2201/064 (2013.01 - EP KR)

Citation (search report)
See references of WO 2022002566A1

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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KH MA MD TN

DOCDB simple family (publication)
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