

Title (en)
DEVICE FOR IRRADIATING A SUBSTRATE

Title (de)
VORRICHTUNG ZUR BESTRAHLUNG EINES SUBSTRATS

Title (fr)
DISPOSITIF D'IRRADIATION D'UN SUBSTRAT

Publication
EP 2875523 A1 20150527 (DE)

Application
EP 13753110 A 20130717

Priority
• DE 102012106667 A 20120723
• EP 2013065082 W 20130717

Abstract (en)
[origin: WO2014016178A1] Known devices for irradiating a substrate have a housing, a receptacle with a circular irradiation surface inside the housing for the substrate to be irradiated, and a first radiator for generating optical radiation, with a first radiator tube having a radiator tube end and arranged in a plane of curvature running parallel to the irradiation surface, wherein the receptacle and the first radiator are movable relative to one another. In these devices, the irradiation surface comprises a first semicircular sub-surface and a second semicircular sub-surface. In order to specify a device for irradiating a substrate proceeding from this point that allows a rotationally symmetrical, homogeneous temperature distribution of the substrate and in addition requires low design effort and control technology expense, according to the invention the first radiator tube has a bent illumination longitudinal section, which runs with a mirror-symmetric oval basic shape in the plane of curvature, wherein the first illumination longitudinal section is associated substantially with one of the semicircular sub-surfaces.

IPC 8 full level
H01L 21/67 (2006.01)

CPC (source: CN EP KR US)
H01L 21/67115 (2013.01 - CN EP KR US); **H05B 3/0047** (2013.01 - US); **H05B 3/0047** (2013.01 - KR)

Citation (search report)
See references of WO 2014016178A1

Citation (examination)
• WO 0182349 A1 20011101 - TOKYO ELECTRON LTD [JP], et al
• EP 0328733 A1 19890823 - BLV LICHT & VAKUUMTECHNIK [DE]
• CN 2083341 U 19910821 - FUDAN LIGHT SOURCE ILLUMINATIN [CN]

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DE 102012106667 A 20120723; CN 201380038694 A 20130717; EP 13753110 A 20130717; EP 2013065082 W 20130717; KR 20157001464 A 20130717; US 201314416958 A 20130717