

Title (en)

METHOD AND DEVICE FOR GENERATING EXTREME ULTRAVIOLET RADIATION IN PARTICULAR FOR LITHOGRAPHY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERZEUGUNG VON LICHT IM EXTREMEN ULTRAVIOLETT INSBESONDERE FÜR DIE LITHOGRAPHIE

Title (fr)

PROCEDE ET DISPOSITIF DE GENERATION DE LUMIERE DANS L'EXTREME ULTRAVIOLET NOTAMMENT POUR LA LITHOGRAPHIE

Publication

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Application

EP 02738200 A 20020416

Priority

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Abstract (en)

[origin: WO02085080A1] The invention concerns a method which consists in causing a laser beam (24) to interact with a dense mist (20) of micro-droplets of a liquefied rare gas. In particular liquid xenon (6) is used, the latter being produced by liquefying a gaseous xenon (10) whereby the liquid xenon is pressurised to a pressure of 5×10^{-5} Pa to 50×10^{-5} Pa, and said liquid xenon is maintained at a temperature between -70 DEG C and -20 DEG C, said pressurised liquid xenon is injected into a nozzle (4) whereof the minimum internal diameter ranges between 60 μ m and 600 μ m, said nozzle emerging into a zone where the pressure is not less than 10^{-1} Pa.

IPC 1-7

H05G 2/00

IPC 8 full level

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