

Title (en)

OPTICAL SYSTEM, HEATING ARRANGEMENT, AND METHOD FOR HEATING AN OPTICAL ELEMENT IN AN OPTICAL SYSTEM

Title (de)

OPTISCHES SYSTEM, SOWIE HEIZANORDNUNG UND VERFAHREN ZUM HEIZEN EINES OPTISCHEN ELEMENTS IN EINEM OPTISCHEN SYSTEM

Title (fr)

SYSTÈME OPTIQUE, SYSTÈME DE CHAUFFAGE ET PROCÉDÉ DE CHAUFFAGE D'UN ÉLÉMENT OPTIQUE DANS UN SYSTÈME OPTIQUE

Publication

**EP 4073588 A1 20221019 (DE)**

Application

**EP 20767478 A 20200819**

Priority

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- EP 2020073207 W 20200819

Abstract (en)

[origin: WO2021115641A1] The invention relates to an optical system, to a heating arrangement and to a method for heating an optical element in an optical system. An optical system, in particular in a microlithographic projection exposure system, comprises: at least one optical element which comprises an optical active surface and is designed for a working wavelength of less than 30 nm; a heating arrangement which is intended for heating this optical element and has a plurality of IR radiators (101, 102, 103, 104, 401, 402, 403, 404) for subjecting the optical active surface to IR radiation, wherein the IR radiator can be switched on and off in order to variably adjust different heating profiles in the optical element independently of one another; and at least one beam shaping unit (130, 231, 232, 233, 234, 430) for shaping the IR radiation directed onto the optical active surface by the IR radiators.

IPC 8 full level

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Citation (search report)

See references of WO 2021115641A1

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