

Title (en)
SOLID IMMERSION LENS AND RELATED METHOD FOR MAKING SAME

Title (de)
FESTKÖRPER-IMMERSIONSLINSE UND DIESBEZÜGLICHES HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
LENTILLE A IMMERSION SOLIDE ET PROCEDE DE REALISATION ASSOCIE

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Application
EP 08804254 A 20080916

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Abstract (en)
[origin: WO2009037249A1] The invention generally pertains to the field of solid immersion lenses for optical applications in high resolution microscopy. The lens of the invention includes a spherical sector (1) limited by a planar surface (11) and an object (2) having nanometric dimensions arranged on the planar surface at the focus of said solid immersion lens. A light-opaque layer (3) having a central opening (31) with nanometric dimensions can be provided on the planar surface, said opening being centred on the focus of the solid immersion lens. The nano-object can be a tube or a thread having a cylindrical shape. The lens of the invention can be made using lithography techniques.

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