

Title (en)

RESIST STRUCTURE FOR PRODUCING AN X-RAY OPTICAL GRATING STRUCTURE

Title (de)

RESISTSTRUKTUR ZUR HERSTELLUNG EINER RÖNTGENOPTISCHEN GITTERSTRUKTUR

Title (fr)

STRUCTURE DE RÉSIST POUR LA FABRICATION D'UNE STRUCTURE DE GRILLE OPTIQUE À RAYONS X

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Application

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Abstract (en)

[origin: WO2012055495A1] The invention relates to a resist structure for producing an X-ray optical grating structure. The invention comprises stabilizing bars (3) which are introduced into the resist structure. The webs (1) of the resist structure are applied to a substrate (2) at a first angle alpha, and the stabilizing bars at a second angle beta, wherein, between alpha and beta, there is preferably at least a spacing of 20° and at most a spacing of 70°, in order to obtain the best possible stabilizing action. In particular, the production of X-ray optical grating structures having aspect ratios of more than 500 is made possible without the grating structures bending or the stabilizing structure having a detrimental effect on the visibility. The resist structures are suitable in particular for producing X-ray optical grating structures from gold.

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