

Title (en)  
AN APPARATUS AND A METHOD FOR CHANGING REFRACTIVE INDEX

Title (de)  
EINE VORRICHTUNG UND EIN VERFAHREN ZUR ÄNDERUNG DES BRECHUNGSINDEXES

Title (fr)  
DISPOSITIF ET PROCEDE DE CHANGEMENT D'UN INDICE DE REFRACTION

Publication  
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Application  
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Abstract (en)  
[origin: WO052506A1] In an apparatus and a method for changing the refractive index of at least part of a sample the degree with which the photosensitivity of the sample is decreased during UV exposure, the temperature of the sample is controlled at least during part of the exposure process in order to keep the temperature of the sample within a predetermined range. Preferably the temperature is kept low by a cooling device keeping the temperature within the range of -100 - +10 DEG C. The sample to be exposed comprises a glass material, which is first subjected in a so-called loading process to pressures above 1 bar by H2 or D2, or other materials that act to enhance the UV-sensitivity of the glass. In an embodiment of the invention the method and the apparatus further comprises control means for controlling the relative movement between mounting means for a glass sample and one or more optical light beams.

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