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(54) Title: REFRACTIVE INDEX MODULATION IN GLASS USING A FEMTOSECOND LASER

(57) Abstract: The invention relates to inducing a refractive index change in the glass substrate of a polymer coated optical device by using a high numeric aperture lens to focus a femtosecond laser beam through the polymeric coating to the substrate without damaging the polymeric coating.



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INTERNATIONAL SEARCH REPORT

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 127 050 A (FROMSON HOWARD A ET AL) 3 October 2000 (2000-10-03) column 1, line 1-22 column 4, line 23-36; claims 1-22 ---	1-18
Y	EP 1 116 965 A (JAPAN SCIENCE & TECH CORP ;CENTRAL GLASS CO LTD (JP)) 18 July 2001 (2001-07-18) column 2, line 16 -column 3, line 47 column 5, line 34 -column 6, line 51; claims 1-3; figure 2 ---	1-18
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O document referring to an oral disclosure, use, exhibition or other means	*&* document member of the same patent family
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