

Title (en)

METHOD FOR PRINTING A NEAR-FIELD PHOTOINDUCED STABLE STRUCTURE AND OPTICAL FIBRE TIP THEREFOR

Title (de)

VERFAHREN ZUM DRUCKEN EINER NAHFELD-LICHTINDUZIERTEN STABILEN STRUKTUR UND OPTISCHE FASERSPITZE DAFÜR

Title (fr)

PROCEDE D'IMPRESSION D'UNE STRUCTURE STABLE PHOTOINDUITE EN CHAMP PROCHE, ET POINTE DE FIBRE OPTIQUE POUR SA MISE EN OEUVRE

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Application

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Abstract (en)

[origin: WO03010604A1] The invention concerns a method for printing a near-field photoinduced stable structure, and an optical fibre tip therefor. The method comprises emitting light waves with appropriate polarisation on a photosensitive material layer to induce therein a topographical modification through an opening of not more than 100 nm delimited by an opaque zone, said layer being located at not more than 100 nm from the opening. The invention is applicable to ophthalmic optics.

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Citation (search report)

See references of WO 03010604A1

Citation (examination)

- JP H08248641 A 19960927 - OLYMPUS OPTICAL CO
- EP 0880078 A2 19981125 - CANON KK [JP]
- US 5608831 A 19970304 - PAN JING-JONG [US]
- CA 2054334 A1 19920520 - AMERICAN TELEPHONE & TELEGRAPH [US]
- US 2002027646 A1 20020307 - SUGITA MITSURO [JP]
- US 2002154859 A1 20021024 - KURODA RYO [JP], et al

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