

Title (en)

BROADBAND ANTIREFLECTIVE OPTICAL COMPONENTS WITH CURVED SURFACES AND THEIR PRODUCTION

Title (de)

BREITBANDING ENTSPIEGELTE OPTISCHE BAUTEILE MIT GEKRUEMMTEN OBERFLAECHEEN UND DEREN HERSTELLUNG

Title (fr)

COMPOSANTS OPTIQUES ANTIREFLETS À LARGE BANDE AVEC SURFACES INCURVÉES ET LEUR PROCÉDÉ DE FABRICATION

Publication

EP 1999498 A1 20081210 (DE)

Application

EP 07727292 A 20070323

Priority

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Abstract (en)

[origin: DE102006013670A1] The component has a surface for wide band anti reflection coating consisting of needle-like structures with nanometer dimensions with a larger aspect ratio of 4 :1. The surface is developed by reactive ion etching process (RIE) of silicon surfaces under application of processing gas such as oxygen and sulfur hexafluoride. The surface of a side or the surfaces of both sides of the component is non-reflective, where the needle-like structures consist of silicon coated with silicon dioxide.

IPC 8 full level

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CPC (source: EP US)

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