

Title (en)  
ELECTRICALLY PUMPED ND3+ DOPED SOLID LASERS

Title (de)  
ELEKTRISCH GEPUMPTE ND3+-DOTIERTE FESTLASER

Title (fr)  
LASER SOLIDES DOPES ND3+ POMPES ELECTRIQUEMENT

Publication  
**EP 1952492 A2 20080806 (FR)**

Application  
**EP 06831149 A 20061121**

Priority  
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Abstract (en)  
[origin: WO2007057580A2] The invention relates to the field of solid lasers and, more specifically, to laser cavities doped with rare earth ions. The invention also relates to a laser amplification structure, a laser, an associated production method, and a use of said structure. The amplification structure can be electrically excited and comprises an active medium and at least two electrodes arranged either side of said active medium. The active medium comprising a first layer of a silicon oxide is co-doped with silicon nanograins and rare earth ions.

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