

Title (en)

LOW STRESS, HIGH THERMAL CONDUCTION LASER ROD MOUNTING

Title (de)

SPANNUNGSARME, HOCHWÄRMELEITENDE LASERSTABHALTERUNG

Title (fr)

MONTURE DE BARREAU LASER A CONDUCTION THERMIQUE ELEVEE ET A FAIBLE CONTRAINTE

Publication

**EP 1889339 A2 20080220 (EN)**

Application

**EP 06748798 A 20060328**

Priority

- US 2006011270 W 20060328
- US 14959405 A 20050609

Abstract (en)

[origin: WO2006135468A2] A mount for suspending a laser medium has a cross section profile. The mount is configured to conduct heat away from the laser medium without imparting undue stress. The mount includes a laser host medium (12) having a first cross section profile. A heat sink (21) defines a bore. The bore has a second cross section profile configured to envelop the first cross section profile and further defines a generally uniform interspace between the first cross section profile and second first cross section profile. An amalgam of a mercury soluble metal (15, 18) is formed to substantially fill the interspace to support the laser host medium.

IPC 8 full level

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CPC (source: EP)

**C22C 7/00** (2013.01); **H01S 3/02** (2013.01); **H01S 3/042** (2013.01); **H01S 3/025** (2013.01); **H01S 3/0405** (2013.01); **H01S 3/061** (2013.01); **H01S 3/0612** (2013.01); **H01S 3/0617** (2013.01)

Citation (search report)

See references of WO 2006135468A2

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