

Title (en)
SLAB LASER

Title (de)
BANDLEITERLASER

Title (fr)
LASER À PLAQUE

Publication
EP 2668701 A1 20131204 (DE)

Application
EP 11799257 A 20111129

Priority
• DE 102011003147 A 20110126
• EP 2011071281 W 20111129

Abstract (en)
[origin: WO2012100866A1] In a slab laser, a gas mixture containing carbon dioxide CO₂ is formed as a laser-active medium in a discharge space (10) which is formed between two plate-shaped metal electrodes (6, 8), the flat faces of which are located opposite one another. A resonator mirror (16, 18) is arranged on each of the mutually opposite end faces (12, 14) of the discharge space, said mirrors forming an unstable resonator parallel to the flat faces. At least one of the mutually facing flat faces is provided either on the entire flat face (2, 4) with a dielectric layer (20) the thickness of which is greater on at least one sub-surface (21) than in the remaining area (22) of the flat face (2, 4), or the at least one flat face (2, 4) is provided with a dielectric layer (20) exclusively on at least one sub-surface (21).

IPC 8 full level
H01S 3/03 (2006.01); **H01S 3/08** (2006.01); **H01S 3/223** (2006.01)

CPC (source: EP US)
H01S 3/0315 (2013.01 - EP US); **H01S 3/0388** (2013.01 - EP US); **H01S 3/22** (2013.01 - US); **H01S 3/08081** (2013.01 - EP US); **H01S 3/2232** (2013.01 - EP US)

Citation (search report)
See references of WO 2012100866A1

Designated contracting state (EPC)
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