

Title (en)  
LIGHT SOURCE IN AN OPTICAL COMMUNICATIONS SYSTEM

Publication  
**EP 0000267 B1 19810708 (EN)**

Application  
**EP 78300070 A 19780622**

Priority  
GB 2766677 A 19770701

Abstract (en)  
[origin: US4350960A] A double heterostructure semiconductor laser having the configuration of its optical cavity arranged to impose a constraint on the lasing filament as the spatial distribution of the lasing filament changes from that occurring at the start of the lasing regime, so that the optical flux emitted by the laser has self-saturating properties. This protects the laser from catastrophic facet erosion and enables a simpler control circuit to be used to drive this laser when it is used as a light source for an optical communications system.

IPC 1-7  
**H01S 3/19**; **H01S 3/06**

IPC 8 full level  
**H01S 5/00** (2006.01); **H01S 5/10** (2006.01); **H01S 5/20** (2006.01); **H01S 5/14** (2006.01)

CPC (source: EP US)  
**H01S 5/10** (2013.01 - EP US); **H01S 5/1032** (2013.01 - EP US); **H01S 5/20** (2013.01 - EP US); **H01S 5/14** (2013.01 - EP US);  
**H01S 5/2059** (2013.01 - EP US)

Cited by  
US2017056894A1; FR2485823A1

Designated contracting state (EPC)  
DE FR NL SE

DOCDB simple family (publication)  
**EP 0000267 A1 19790110**; **EP 0000267 B1 19810708**; DE 2860817 D1 19811015; JP S5414694 A 19790203; JP S6241435 B2 19870902;  
US 4350960 A 19820921

DOCDB simple family (application)  
**EP 78300070 A 19780622**; DE 2860817 T 19780622; JP 7972178 A 19780630; US 16810780 A 19800714