

Title (en)  
Projector having a focussing device and a divergent lens

Title (de)  
Fokussierbarer Scheinwerfer mit Negativlinse

Title (fr)  
Projecteur avec dispositif de focalisation et lentille divergente

Publication  
**EP 1215437 A3 20031217 (DE)**

Application  
**EP 01129393 A 20011218**

Priority  
DE 10063134 A 20001218

Abstract (en)  
[origin: EP1215437A2] The searchlight is designed so that between the reflector (1) and the convergent lens (5), a diffusing (negative) lens is arranged. The diffusing lens (6) is movable in the direction of the optical main axis of the search light.

IPC 1-7  
**F21V 14/00**; **F21V 7/04**; **F21V 5/04**; **G02B 5/10**; **G02B 17/00**

IPC 8 full level  
**F21S 8/00** (2006.01); **F21V 5/04** (2006.01); **F21V 7/04** (2006.01); **F21V 14/00** (2006.01); **F21V 14/02** (2006.01); **F21V 14/04** (2006.01); **F21V 14/06** (2006.01); **G02B 5/10** (2006.01); **G02B 17/00** (2006.01)

CPC (source: EP US)  
**F21S 8/003** (2013.01 - EP US); **F21V 5/045** (2013.01 - EP US); **F21V 7/04** (2013.01 - EP US); **F21V 14/02** (2013.01 - EP US); **F21V 14/04** (2013.01 - EP US); **F21V 14/06** (2013.01 - EP US); **F21W 2131/406** (2013.01 - EP US)

Citation (search report)  
• [A] EP 0846913 A1 19980610 - WEIGERT DEDO FILM GMBH [DE]  
• [A] US 4519020 A 19850521 - LITTLE WILLIAM D [US]  
• [A] US 5904417 A 19990518 - HEWETT ARTHUR [US]  
• [A] WO 9320384 A2 19931014 - PHOENIX PROD [US]  
• [A] GB 270791 A 19270509 - PERCY WILLIAM BEARD

Cited by  
EP2236909A1; EP3450826A1; EP1610055A1; US10295155B2; US10663147B2

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