

Title (en)  
Light signal especially for use in the railroad field as an advance starting signal

Title (de)  
Rangierlichtsignal für Schienenfahrzeuge

Title (fr)  
Signal lumineux ferroviaire pour manoeuvres

Publication  
**EP 1466804 A1 20041013 (EN)**

Application  
**EP 04425230 A 20040331**

Priority  
IT FI20030096 A 20030408

Abstract (en)  
The invention relates to an apparatus for railroad advance starting light signal, that is, a signal of a type constituted by means of optical groups horizontally combined to project, in the direction of an incoming train, two milk-white blinking lights, thereby authorizing the entry of the train into the station, characterized in that it comprises, for each of said optical groups, at least one matrix (1) of luminous elements or sectors electrically connected in parallel, each luminous sector comprising one or more light sources (10). <IMAGE>

IPC 1-7  
**B61L 5/18**

IPC 8 full level  
**B61L 5/18** (2006.01)

CPC (source: EP)  
**B61L 5/1809** (2013.01)

Citation (search report)

- [X] GB 2329011 A 19990310 - HOWELLS RAILWAY PRODUCTS LIMIT [GB]
- [X] GB 2356694 A 20010530 - DORMAN TRAFFIC PRODUCTS LTD [GB]
- [A] WO 9512512 A1 19950511 - SIEMENS INTEGRA VERKEHRSTECHNI [CH]
- [A] US 5663719 A 19970902 - DEESE RAYMOND E [US], et al
- [A] DE 19824562 A1 19981210 - TIEFENBACH GMBH [DE]
- [A] DD 118334 A1 19760220
- [PA] EP 1371540 A2 20031217 - TECNOLOGIE MECCANICHE S R L [IT]
- [A] DANIEL WURMSER: "Les Signalisations Européennes - L'Italie", CHEMINS DE FER, vol. 1997, no. 04-05, 1997, PARIS, pages 18 - 20, XP002288638
- [A] MICHAEL ZABEL, JÖRG LIEBSCHER: "LED- Eine neue Generation von Lichtquellen für Eisenbahnsignale", SIGNAL + DRAHT., vol. 2000, no. 9, September 2000 (2000-09-01), DETELZLAFF VERLAG GMBH. DARMSTADT., pages 31 - 33, XP009033674
- [PA] THOMAS DIENER, RÜDIGER MESTERHEIDE: "LED-Signalgeber - das Zukunftssignal", SIGNAL + DRAHT., vol. 2003, no. 06, June 2003 (2003-06-01), DETELZLAFF VERLAG GMBH. DARMSTADT., pages 20 - 22, XP001182300

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1466804 A1 20041013**; IT FI20030096 A1 20041009

DOCDB simple family (application)  
**EP 04425230 A 20040331**; IT FI20030096 A 20030408