

## Title (en)

Traffic signal head with multiple led illumination sources

## Title (de)

Verkehrs-Lichtsignalanlage mit mehreren LED-Lichtquellen

## Title (fr)

Feu de circulation avec plusieurs sources d'illumination DEL

## Publication

**EP 1286321 A1 20030226 (EN)**

## Application

**EP 01307055 A 20010820**

## Priority

EP 01307055 A 20010820

## Abstract (en)

A traffic signal head uses a plurality of LED light sources mounted in one or more containment volumes in a housing. One version uses identical three-color LED light sources distributed through the containment volume: each source having a red light generating element, a yellow light generating element, and a green light generating element. A second version uses identical two-color LED light sources distributed through the containment volume, each source having a red LED light generating element and a green LED light generating element. For the second version, activation circuitry enables individual activation of the red LED elements to produce red signals, individual activation of the green LED elements to produce green signals, and concurrent activation of both types of LED elements to produce yellow signals. Both versions can be electrically configured to display any of the three colors, as well as special symbols-such as directional arrows.

## IPC 1-7

**G08G 1/095**

## IPC 8 full level

**G08G 1/095** (2006.01); **G08G 1/096** (2006.01)

## CPC (source: EP)

**G08G 1/095** (2013.01); **G08G 1/096** (2013.01)

## Citation (search report)

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- [XA] US 3875456 A 19750401 - KANO TSUYOSHI, et al
- [A] EP 0853302 A1 19980715 - GARUFO GMBH [DE]
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- [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 09 30 July 1999 (1999-07-30)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 08 30 June 1998 (1998-06-30)

## Cited by

WO2005104058A1; US7696698B2; US7911357B2; US8237590B2

## Designated contracting state (EPC)

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