

Title (en)

Fastening device for the poles of traffic lights or the like

Title (de)

Befestigung von Masten für Ampeln oder dergleichen

Title (fr)

Dispositif pour fixer des mats pour des feux de circulation ou similaires

Publication

**EP 0955414 B1 20060405 (DE)**

Application

**EP 99108898 A 19990505**

Priority

DE 19820140 A 19980506

Abstract (en)

[origin: EP0955414A2] The fastening arrangement has an essentially cylindrical tubular hole in the component to be fastened relative to the fastening. A plug is provided to fit into the hole. This plug has an expandable sleeve element (13) and a wide body (14). It has a dowel shaft (15) for pushing the wide body relative to the sleeve element. The dowel or plug is arranged such that with the force required for mounting, the dowel is not fully expanded.

IPC 8 full level

**E02D 5/80** (2006.01); **E01F 9/685** (2016.01); **E04H 12/22** (2006.01); **E02D 27/42** (2006.01); **F16B 13/06** (2006.01)

CPC (source: EP)

**E01F 9/685** (2016.02); **E04H 12/2261** (2013.01); **E02D 27/42** (2013.01)

Citation (examination)

- US 5314277 A 19940524 - FISCHER ARTUR [DE]
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- US 4869631 A 19890926 - FROEHLICH PETER [DE]
- DE 4238181 A1 19930715 - I & V GMBH INDUKTIONSSCHLEIFEN [DE]
- MANLEITNER, SIEGFRIED: "Stand der Befestigungstechnik im Beton- und Stahlbetonbau", BETONWERK + BFT FERTIGTEIL-TECHNIK, no. 8, pages 77 - 78,81-83

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**EP 0955414 A2 19991110**; **EP 0955414 A3 20000823**; **EP 0955414 B1 20060405**; AT E322584 T1 20060415; DE 19820140 A1 19991111; DE 59913291 D1 20060518; DK 0955414 T3 20060612; ES 2262267 T3 20061116; PT 955414 E 20060731

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