

Title (en)
SUPPORT DEVICE FOR SERVICES.

Publication
EP 0607300 A4 19970903 (EN)

Application
EP 92921800 A 19921016

Priority

- AU 9200555 W 19921016
- AU PK892391 A 19911016
- AU PL021891 A 19911231
- AU PL289392 A 19920612
- AU PL498592 A 19920928
- AU PL508292 A 19921006

Abstract (en)
[origin: WO9308371A1] The invention relates to support devices, for example, as used to support service lines from the roof in an underground mine. A load-bearing member (23) and support bracket (22) are stacked together and temporarily fixed by means of a tab (24). The stacked arrangement (22, 23) is emplaced to the mine roof (26) by a rock bolt (25) which is secured by a point contact adhesive (27) and nut (28). The bracket (22) has keyholes (3) spaced along its length which serve as locking points for chains (21), from which services such as pipes (18) can be hung. The emplaced brackets (22) are spaced along the roof (26) so as to provide support for the pipes (18) along their route. The large number of keyholes (3) allows lateral positional adjustment at each bracket (22).

IPC 1-7
E21F 17/02; **F16L 3/00**

IPC 8 full level
E21F 17/02 (2006.01); **F16L 3/24** (2006.01)

CPC (source: EP US)
E21F 17/02 (2013.01 - EP US); **F16L 3/24** (2013.01 - EP US); **F16L 3/243** (2019.07 - EP US)

Citation (search report)

- [X] GB 1040951 A 19660901 - WESTINGHOUSE AIR BRAKE CO & NL 290293 A
- [A] DE 3225115 A1 19840112 - MUELLER & BORGGRAEFE KG [DE]
- See references of WO 9308371A1

Designated contracting state (EPC)
DE ES FR GB

DOCDB simple family (publication)
WO 9308371 A1 19930429; BR 9206645 A 19951121; CA 2121373 A1 19930429; EP 0607300 A1 19940727; EP 0607300 A4 19970903; PL 169115 B1 19960628

DOCDB simple family (application)
AU 9200555 W 19921016; BR 9206645 A 19921016; CA 2121373 A 19921016; EP 92921800 A 19921016; PL 30319292 A 19921016