

Title (en)  
MINING ROOF SUPPORT, IN PARTICULAR SHIELD-TYPE SUPPORT

Publication  
**EP 0033152 B1 19840725 (DE)**

Application  
**EP 81100546 A 19810126**

Priority  
PL 22161080 A 19800125

Abstract (en)  
[origin: EP0033152A1] 1. A directly hydraulically spread roof support for mining, in particular a shield-type support, which has at least one pair of expanding arms (3, 4) pivotably connected to the horn (2) and the bed plate (1), which arms are pivotably connected together at their free ends in such manner that they form a tilted V-shape, the spreading arms being spreadable by means of a hydraulic cylinder (5) against the horn or against the bed plate, characterised in that the hydraulic cylinder (5) is arranged between the spreading arms (3, 4) and the ends of the hydraulic cylinder are connected to the spreading arms (3, 4) at arbitrary points of their length.

IPC 1-7  
**E21D 19/02**; **E21D 23/00**

IPC 8 full level  
**E21D 19/02** (2006.01); **E21D 23/00** (2006.01); **E21D 23/04** (2006.01)

CPC (source: EP)  
**E21D 23/0034** (2013.01); **E21D 23/0427** (2013.01)

Citation (examination)

- DE 2507263 A1 19760909 - WINKLER JOHANNES
- DE 2848506 A1 19790517 - VOEST AG
- FR 2340445 A1 19770902 - BOCHUMER EISEN HEINTZMANN [DE]
- PL 63639 A

Cited by  
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Designated contracting state (EPC)  
AT DE FR GB

DOCDB simple family (publication)  
**EP 0033152 A1 19810805**; **EP 0033152 B1 19840725**; AT E8690 T1 19840815; DE 3164933 D1 19840830; PL 124332 B1 19830131; PL 221610 A1 19810807

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