

Title (en)  
MINING EXCAVATING PROCESS USING THE BORD AND PILLAR METHOD

Publication  
**EP 0034520 B1 19850109 (FR)**

Application  
**EP 81400163 A 19810203**

Priority  
ZA 80816 A 19800213

Abstract (en)  
[origin: ES8305877A1] There is constructed around pillars of a mine chamber on the ground a rectangular enclosure which is defined by superimposed layers of U-section elements. The concavity of the latter faces inwardly of the enclosure. A pulverulent material is poured by a hydraulic filling method into the enclosure. This pulverent material preferably comprises light fine ash having hydraulic properties. Owing to the reinforcements embedded in the mass, the structure initially behaves as stabilized earth, but, in the end, the material sets and becomes coherent so that finally the structure has a lean concrete character.

IPC 1-7  
**E21F 15/00**

IPC 8 full level  
**E02D 3/12** (2006.01); **E02D 29/02** (2006.01); **E21F 15/00** (2006.01); **E21F 15/08** (2006.01)

CPC (source: EP US)  
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**EP 0034520 A2 19810826; EP 0034520 A3 19811202; EP 0034520 B1 19850109**; AR 229583 A1 19830930; AT E11172 T1 19850115; AU 6716881 A 19810820; BR 8100860 A 19810825; CA 1175248 A 19841002; DE 3168088 D1 19850221; ES 500072 A0 19830501; ES 8305877 A1 19830501; IL 62064 A0 19810331; IL 62064 A 19840131; JP S56153011 A 19811126; MX 156841 A 19881006; US 4412760 A 19831101; ZA 80816 B 19810128

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**EP 81400163 A 19810203**; AR 28429581 A 19810213; AT 81400163 T 19810203; AU 6716881 A 19810211; BR 8100860 A 19810212; CA 370423 A 19810209; DE 3168088 T 19810203; ES 500072 A 19810213; IL 6206481 A 19810204; JP 2002581 A 19810213; MX 18597481 A 19810213; US 23345881 A 19810211; ZA 80816 A 19800213