

Title (en)
Yielding element for an underground cavity

Title (de)
Nachgiebigkeitselement für einen Untertageraum

Title (fr)
Élément souple pour une cavité souterraine

Publication
EP 1762698 A1 20070314 (DE)

Application
EP 05405530 A 20050908

Priority
EP 05405530 A 20050908

Abstract (en)
The yielding component (1) has a honeycomb structure, and can be squeezed under the influence of ground pressure without deteriorating strength and without damaging a breakage safety device. The yielding component includes an endless connector formed in sections and comprises of prefabricated portions. The yielding component may be formed using localized concrete or spray concrete. The yielding component also includes intermediate layers (10) arranged between spacers (11), such that intermediate layers are arranged parallel to each other, and are provided in the form of plastic plates. An independent claim is included for the development process using the yielding component.

IPC 8 full level
E21D 11/18 (2006.01); **E21D 11/05** (2006.01)

CPC (source: EP)
E21D 11/05 (2013.01); **E21D 11/18** (2013.01)

Citation (applicant)
• DE 3927446 C1 19910314
• DE 4014437 C2 19930708
• DE 4015585 C1 19911121

Citation (search report)
• [X] DE 545981 C 19320308 - CARL BOEHM
• [X] DE 1131172 B 19620614 - ALEXANDER SCHMIDT DR, et al
• [X] EP 0089403 A1 19830928 - BERGWERKSVERBAND GMBH [DE]
• [X] WO 0011319 A1 20000302 - GRINAKER CONSTR LTD [ZA], et al
• [A] US 4997317 A 19910305 - SCHOENFELD BURKHARD [DE], et al
• [A] DE 457523 C 19280319 - MAX ADOLPH
• [A] BE 531837 A
• [DA] DE 4015585 C1 19911121

Cited by
DE102014103477A1; DE102009057521A1; EP2042686A1; AT17900U1; DE102009057521B4; EP2918772A2; WO2011069480A3; WO2011069480A2; US8979434B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1762698 A1 20070314; EP 1762698 B1 20081119; AT E414841 T1 20081215; DE 502005006010 D1 20090102

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