

Title (en)  
ACTIVATED STEMMING DEVICE

Title (de)  
AKTIVIERTE VERDÄMMUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE BOURRAGE ACTIVE

Publication  
**EP 1463871 A1 20041006 (EN)**

Application  
**EP 02796156 A 20021217**

Priority  
• ZA 0200209 W 20021217  
• ZA 200105469 A 20020103  
• ZA 200105470 A 20020103

Abstract (en)  
[origin: WO03060290A1] Stemming apparatus which includes a member, a propellant charge and an initiator for igniting the propellant charge. Stemming (32) is placed into the hole (10) from the rock face (14) covering the cartridge to a desired extent. The stemming is consolidated by being tamped in position. A member (34), which is made from a plastics materials such as polypropylene, is then placed over the stemming (32). The member has a conical leading end (36) which faces downwardly into the stemming and, in this example, has a substantially planar trailing end (38) which faces upwardly. The maximum diameter of the member (34) is slightly less than the nominal diameter of the hole (10). A propellant charge (40) is placed on the member or, preferably, is incorporated in the member under factory conditions. An initiator or igniter (42) is engaged with the propellant charge. Control leads (44) lead from the initiator to the control unit which is used for firing the initiator (28).

IPC 1-7  
**E21C 37/14**

IPC 8 full level  
**E21C 37/14** (2006.01); **F42D 1/08** (2006.01); **F42D 1/20** (2006.01)

CPC (source: EP US)  
**E21C 37/14** (2013.01 - EP US); **F42D 1/08** (2013.01 - EP US); **F42D 1/20** (2013.01 - EP US)

Citation (search report)  
See references of WO 03060290A1

Cited by  
WO2017205881A1

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

DOCDB simple family (publication)  
**WO 03060290 A1 20030724; WO 03060290 B1 20040527**; AT E336640 T1 20060915; AU 2002360867 A1 20030730;  
AU 2002360867 B2 20070215; CA 2472533 A1 20030724; DE 60214041 D1 20060928; EP 1463871 A1 20041006; EP 1463871 B1 20060816;  
US 2006169162 A1 20060803

DOCDB simple family (application)  
**ZA 0200209 W 20021217**; AT 02796156 T 20021217; AU 2002360867 A 20021217; CA 2472533 A 20021217; DE 60214041 T 20021217;  
EP 02796156 A 20021217; US 50035605 A 20050622