

Title (en)

Blasting methods and apparatus with reduced risk of inadvertent or illicit use

Title (de)

Sprengverfahren und Vorrichtung mit reduziertem Risiko auf versehentlicher oder unerlaubter Verwendung

Title (fr)

Procédé de sautage et dispositif à risque d'usage involontaire ou illégale réduite

Publication

EP 1855077 A2 20071114 (EN)

Application

EP 07017285 A 20060216

Priority

- EP 06704880 A 20060216
- US 65308505 P 20050216
- US 71513305 P 20050909

Abstract (en)

Disclosed herein are significant improvements in security and safety of blasting apparatuses intended for use in mining operations. These include the development of an apparatus and method for blasting that involves activation or deactivation of the blasting apparatus in accordance with pre-determined parameters. For example, these parameters may include one or more of: a location of the blast site, a time for the blasting event, a number of previous blasts, a number of previous blasts within a given time period, and identification of detonator identification codes. The activation or deactivation may involve cross-communication between components of the blasting apparatus and/or associated detonators. Such cross-communication may involve electronic or wireless communication means, including for example the use of cell phone technology, or the Internet. In this way, preferred apparatuses and methods disclosed herein permit rapid analysis and verification of a geographical location and time for a blasting event, as well as control and logging of the blasting event, all from a remote location.

IPC 8 full level

F42D 1/05 (2006.01); **F42D 1/055** (2006.01)

CPC (source: EP)

F42D 1/05 (2013.01)

Citation (applicant)

- US 6644202 B1 20031111 - DUNIAM PETER J [AU], et al
- US 5937557 A 19990817 - BOWKER J KENT [US], et al
- US 2005088335 A1 20050428 - STEPHENS SCOTT A [US]
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