

Title (en)

Arrangement and Method in Rock Breaking

Title (de)

Anordnung und Verfahren beim Aufbrechen von Gestein

Title (fr)

Dispositif et procédé dans un système d'abattage de roche

Publication

**EP 2811110 B1 20170920 (EN)**

Application

**EP 13171043 A 20130607**

Priority

EP 13171043 A 20130607

Abstract (en)

[origin: EP2811110A1] An arrangement and method for measuring rock breaking dynamics. The arrangement comprises at least one component of a rock breaking system, the component being subjected to stress during rock breaking, at least one element at least part of which is arranged into a state of persistent magnetization, and at least one measuring member for measuring at least one parameter of rock breaking dynamics on the basis of a change in a magnetic property of the component.

IPC 8 full level

**E21B 44/00** (2006.01); **E21B 7/02** (2006.01)

CPC (source: EP)

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Cited by

EP3266975A1; CN107587839A; EP4276438A1; CN109312617A; EP3472427A1; AU2017285884B2; WO2023218013A1; US10550685B2; WO2022139654A1; US11459872B2; WO2017217905A1; KR20180006283A; WO2022139655A1; EP3472427B1

Designated contracting state (EPC)

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**EP 2811110 A1 20141210; EP 2811110 B1 20170920**; AU 2014202974 A1 20150115; AU 2014202974 B2 20160623; CN 104236762 A 20141224; JP 2014237217 A 20141218; JP 5767368 B2 20150819

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**EP 13171043 A 20130607**; AU 2014202974 A 20140602; CN 201410250032 A 20140606; JP 2014117892 A 20140606