

Title (en)
Plasma blasting method.

Title (de)
Plasmasprengverfahren.

Title (fr)
Méthode de tirage au plasma.

Publication
EP 0453076 A1 19911023 (EN)

Application
EP 91301810 A 19910305

Priority
CA 2015102 A 19900420

Abstract (en)
A blasting method which comprises delivering electrical energy at a rate of at least 100 megawatts per microsecond until a peak power of at least 3 gigawatts is reached across the gap of two poles of a coaxial electrode assembly immersed in an electrolyte within a confined area of a substance to be blasted. A dielectric break-down of the electrolyte in the confined area is produced resulting in the formation of plasma within the confined area which creates a pressure sufficient to blast the substance in the manner of a high explosive charge.

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E21B 7/15; **E21C 37/18**

IPC 8 full level
E21B 7/15 (2006.01); **E21C 37/18** (2006.01)

CPC (source: EP)
E21B 7/15 (2013.01); **E21C 37/18** (2013.01)

Citation (search report)
• [AD] US 3158207 A 19641124 - ROWLEY DAVID S
• [AD] US 3583766 A 19710608 - PADBERG LOUIS R JR
• [AD] US 3679007 A 19720725 - O'HARE LOUIS RICHARD

Cited by
EP1033551A3; EP1013142A4; US2011227395A1; US8628146B2; US6457778B1; US10060195B2; US10407995B2; US10113364B2; WO9924694A1

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