

Title (en)
METHOD FOR MANUFACTURING COMPRESSED COMPOSITE GUNPOWDER USING POLYMER EMULSION, AND COMPRESSED COMPOSITE GUNPOWDER MANUFACTURED THEREBY

Title (de)
VERFAHREN ZUR HERSTELLUNG VON KOMPRIMIERTEM VERBUNDSCHIESSPULVER UNTER VERWENDUNG EINER POLYMEREMULSION UND DADURCH HERGESTELLTES KOMPRIMIERTES VERBUNDSCHIESSPULVER

Title (fr)
PROCÉDÉ DE FABRICATION DE POUDRE À CANON COMPOSITE COMPRIMÉE À L'AIDE D'UNE ÉMULSION DE POLYMÈRE, ET POUDRE À CANON COMPOSITE COMPRIMÉE AINSI FABRIQUÉE

Publication
EP 3611152 A4 20200429 (EN)

Application
EP 18784066 A 20180413

Priority
• KR 20170048444 A 20170414
• KR 2018004340 W 20180413

Abstract (en)
[origin: US2018297909A1] A method of manufacturing a press polymer-bonded explosive, in which a polymer emulsion is used to maximize the efficiency of a process, and a press polymer-bonded explosive manufactured using the same. The method includes a polymer-emulsion-manufacturing step of mixing a monomer of a polymer binder and an emulsifier with a process water and then adding an initiator to thus manufacture a polymer emulsion using a polymerization reaction, a slurry-manufacturing step of mixing a raw material including an explosive and an emulsion breaker with fresh process water to thus manufacture a slurry, an agglomerated-particle-forming step of adding the manufactured polymer emulsion to the manufactured slurry to thus form agglomerated particles in which a surface of the raw material is coated with the polymer binder, and an agglomerated-particle-obtaining step of collecting the agglomerated particles using filtration and drying the collected agglomerated particles.

IPC 8 full level
C06B 45/22 (2006.01); **C06B 21/00** (2006.01); **C06B 23/00** (2006.01); **C06B 25/20** (2006.01); **C06B 33/00** (2006.01); **C06B 47/14** (2006.01)

CPC (source: EP KR US)
C06B 21/0025 (2013.01 - KR US); **C06B 21/0041** (2013.01 - KR US); **C06B 21/0083** (2013.01 - EP KR); **C06B 23/005** (2013.01 - EP); **C06B 25/20** (2013.01 - KR); **C06B 25/34** (2013.01 - US); **C06B 33/00** (2013.01 - KR); **C06B 45/22** (2013.01 - EP KR); **C06B 47/145** (2013.01 - KR)

Citation (search report)
• [XA] US 2006060273 A1 20060323 - SMITH KJELL-TORE [NO]
• [XAI] US 2005183803 A1 20050825 - AKESTER JEFFREY D [US], et al
• [XA] US 2005072503 A1 20050407 - SMITH KJELL-TORE [NO], et al
• [IA] FR 2031677 A5 19701120 - FRANCE ETAT
• [XA] US 5358587 A 19941025 - VOIGT JR H WILLIAM [US]
• [A] US 5750920 A 19980512 - REDECKER KLAUS [DE], et al
• See also references of WO 2018190673A1

Designated contracting state (EPC)
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Designated extension state (EPC)
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DOCDB simple family (publication)
US 2018297909 A1 20181018; EP 3611152 A1 20200219; EP 3611152 A4 20200429; EP 3611152 B1 20240207; KR 101855040 B1 20180504; WO 2018190673 A1 20181018

DOCDB simple family (application)
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