

Title (en)  
Acoustic impulse gun

Title (de)  
Akkustische Impulsvorrichtung

Title (fr)  
Dispositif acoustique d'impulsions

Publication  
**EP 0999347 A1 20000510 (EN)**

Application  
**EP 99308253 A 19991020**

Priority  
US 18479498 A 19981102

Abstract (en)  
An acoustic impulse gun (10) and associated methods of transmitting signals to equipment positioned in a subterranean well permits the signals to be transmitted in a safe, economical, convenient and efficient manner. The acoustic impulse gun (10) includes an accumulator (12), which is momentarily placed in fluid communication with the well when fluid pressure is applied to a device (20) interconnected between the accumulator (12) and the well. The device (20) includes a shuttle (32) which displaces relative to an inlet port (16) in fluid communication with the accumulator (12), and a discharge port (18) in fluid communication with the well. Fluid pressure is applied to the device (20) in a pattern by a signal control system, thereby causing the shuttle (32) to successively and rapidly permit fluid pressure pulses to be applied to the well. <IMAGE>

IPC 1-7  
**E21B 47/18**

IPC 8 full level  
**E21B 47/18** (2006.01)

CPC (source: EP)  
**E21B 47/24** (2020.05)

Citation (search report)  
• [XY] WO 9845731 A1 19981015 - CARSTENSEN KENNETH J [US]  
• [XY] US 4596293 A 19860624 - WALLUSSEK HEINZ [DE], et al

Designated contracting state (EPC)  
DE FR GB IE NL

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