

Title (en)  
ELECTRICAL DISCHARGE ACOUSTIC SOURCE WITH BANK OF CAPACITORS

Title (de)  
ELEKTROSTATISCHE SCHALLQUELLE MIT KONDENSATORBANK

Title (fr)  
SOURCE ACOUSTIQUE À DÉCHARGE ÉLECTRIQUE COMPORTANT UNE BATTERIE DE CONDENSATEURS

Publication  
**EP 2443479 A1 20120425 (EN)**

Application  
**EP 10725170 A 20100614**

Priority  
• EP 2010058303 W 20100614  
• GB 0910445 A 20090617

Abstract (en)  
[origin: GB2471111A] An acoustic pressure wave is produced using an electrical discharge acoustic source 16 having a bank of capacitors 24 and a discharge electrode arrangement 28 comprising of one or more pairs of electrodes. The bank of capacitors has a switching arrangement 26 by which each capacitor is individually connected to an electrode in the discharge electrode arrangement such that each capacitor and/or electrode pair may be fired off separately. The switching arrangement may be configured so that any capacitor can be connected to any one pair of electrodes. At least one electrode in each pair may be movable so that the gap between electrodes may be set to a predetermined level. Each capacitor in the bank may be monitored such that any non-functional capacitors are isolated and any functional capacitors are connected in parallel. A power supply may be connected to the electrodes such that a high voltage can be discharged across the electrodes. A control system may be operated to adjust parameters associated with the operation of the source, such as firing sequence and timing of the discharge. The control section may include sensors to monitor ambient and device temperature and pressure, source output and signal pressure and time.

IPC 8 full level  
**G01V 1/157** (2006.01); **G10K 15/06** (2006.01)

CPC (source: EP GB)  
**G01V 1/157** (2013.01 - EP GB); **G10K 15/06** (2013.01 - EP GB)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**GB 0910445 D0 20090729**; **GB 2471111 A 20101222**; AU 2010261898 A1 20120202; BR PI1011598 A2 20160322; CA 2765757 A1 20101223; EP 2443479 A1 20120425; WO 2010146016 A1 20101223

DOCDB simple family (application)  
**GB 0910445 A 20090617**; AU 2010261898 A 20100614; BR PI1011598 A 20100614; CA 2765757 A 20100614; EP 10725170 A 20100614; EP 2010058303 W 20100614