

Title (en)

Water hammer driven air compressor

Title (de)

Wasserschlag betriebener Luftverdichter

Title (fr)

Compresseur à air à commande par coup de bélier hydraulique

Publication

EP 2161450 A1 20100310 (EN)

Application

EP 09478002 A 20090902

Priority

LT 2008066 A 20080903

Abstract (en)

The present invention is designed for air compressors driven by a periodically induced water hammer. With the aim to expand the range of application of said water hammer driven air compressor and maximize utilization of kinetic water energy by converting it into pressurized air energy, said compressor has two water intake pipes (1) and (2) with impact valves (3) connected to water reservoir (5) and two air reservoirs (6) and (7) with water intake (8) and outlet (9) valves and air intake valves (10) connected to an air intake pipe (12). The water outlet valves (9) are controlled by the air pressure in the reservoirs (6) and (7).

IPC 8 full level

F04B 23/10 (2006.01); **F04B 47/04** (2006.01); **F04F 7/02** (2006.01)

CPC (source: EP US)

F04B 23/10 (2013.01 - EP US); **F04B 47/04** (2013.01 - EP); **F04F 7/02** (2013.01 - EP US)

Citation (applicant)

- SU 1652674 A1 19910530 - KARTASHEV VITALIJ P [SU]
- RU 2239102 C1 20041027

Citation (search report)

- [A] WO 0036306 A1 20000622 - DAWSON MARK A [AU]
- [A] DE 112004002323 T5 20070524 - INCOTELOGY LTD [DE]
- [A] EP 0274374 A2 19880713 - STEVEN PHILIPPE
- [A] DE 3149841 A1 19830630 - PFISTER & LANGHANSS [DE]
- [A] FR 2444823 A1 19800718 - MAC GREGOR DANIEL

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CN103032387A; CN107143536A; RU2610356C1; RU2606847C1; CN104121139A; LT6734B

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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