

Title (en)

BACKUP PNEUMATIC WATER PRESSURE DEVICE

Title (de)

UNTERSTÜTZENDE PNEUMATISCHE WASSERDRUCKVORRICHTUNG

Title (fr)

DISPOSITIF PNEUMATIQUE POUR FOURNIR UNE PRESSION D'EAU DE SECOURS

Publication

**EP 2847391 A4 20160302 (EN)**

Application

**EP 12874979 A 20120423**

Priority

US 2012034693 W 20120423

Abstract (en)

[origin: WO2013162507A1] A fluid pressure backup device has a tank mounted between pressurized fluid and piping for delivering the fluid. An air bladder within the tank is inflated by an air compressor to provide backup fluid pressure when the pressurized fluid source fails. Control circuitry assures that when the backup device has been activated there is minimal drain on the battery from other system components when the air compressor is not operating. A bladder rod and a hook and loop assembly maintain the orientation of the air bladder during use. In the exemplar application of the device to provide backup water pressure, a control unit detects when water pressure at the source is lost, and monitors air pressure in the bladder and water pressure in the tank. When water pressure is restored at the source, the control unit shuts off the compressor and opens an air pressure relief valve at the bladder.

IPC 8 full level

**E03B 11/02** (2006.01)

CPC (source: EP)

**E03B 11/06** (2013.01); **Y02A 20/00** (2017.12)

Citation (search report)

- [A] US 2011139711 A1 20110616 - FIELD GEORGE RAYMOND [CA]
- [A] DE 1609056 A1 19700326 - LUTZ DR ING HERMANN
- [A] CH 573024 A5 19760227 - BOEGLI PAUL
- See references of WO 2013162507A1

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 RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2013162507 A1 20131031**; EP 2847391 A1 20150318; EP 2847391 A4 20160302

DOCDB simple family (application)

**US 2012034693 W 20120423**; EP 12874979 A 20120423