

Title (en)
Hydraulic buoyant force engine

Title (de)
Auftriebsmotor

Title (fr)
Moteur à poussée d'Archimède

Publication
EP 1452732 A1 20040901 (EN)

Application
EP 03004535 A 20030228

Priority
EP 03004535 A 20030228

Abstract (en)
Disclosed herein is a hydraulic buoyant force engine whose essential component is a plurality of floats (1) engaged to two transmission chains (6,7) of two sprocket and chain combination units each disposed at either side of the floats. The float (1) is wrapped with a canvas (14) supported by several rib units (13). When the float (1) is expanded by air its buoyancy overcomes its own weight, floats up and drives the chains (6,7) to move up. When the float comes up to a gear (8) above it, a gear (17) will mate an annular gear rack (8) to act as an internal spur gear unit so as to retract the rib units (13) thereby squeezing the float (1) to discharge the contained air. The shrunk float sinks into the water together with the two chains.
<IMAGE> <IMAGE>

IPC 1-7
F03B 17/04

IPC 8 full level
F03B 17/04 (2006.01)

CPC (source: EP)
F03B 17/04 (2013.01)

Citation (search report)
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Cited by
EP2235362A4; GB2430471A; GR1007323B; WO2007076719A1; WO2006122558A1; WO2011091493A1

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