

Title (en)
UNDERWATER BUOY WITH MODULAR MEMBERS

Title (de)
UNTERWASSERBOJE MIT MODULAREN ELEMENTEN

Title (fr)
BOUÉE SOUS-MARINE À ÉLÉMENTS MODULAIRES

Publication
EP 2164752 A2 20100324 (FR)

Application
EP 08805507 A 20080424

Priority
• FR 2008000590 W 20080424
• FR 0703086 A 20070427

Abstract (en)
[origin: US8425156B2] An underwater buoy for hanging a duct between a sea bed and the surface, the buoy including a frame and a plurality of modular members mounted in the frame, the modular members extending between their two opposite modular-member ends, the frame including a longitudinal body for receiving the extended tubular duct, and retainers mounted on the body for maintaining the modular members substantially parallel to the body. The retainers include two retaining structures spaced from each other along the body. The retaining structures are maintained in a fixed position relative to each other in order to hold at least one modular member.

IPC 8 full level
B63B 22/18 (2006.01)

CPC (source: EP US)
B63B 22/00 (2013.01 - EP US); **B63B 22/18** (2013.01 - EP US); **E21B 17/012** (2013.01 - EP US)

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
FR 2915456 A1 20081031; **FR 2915456 B1 20090904**; AT E528204 T1 20111015; BR PI0810129 A2 20141029; BR PI0810129 B1 20190813; DK 2164752 T3 20120206; EP 2164752 A2 20100324; EP 2164752 B1 20111012; US 2010111614 A1 20100506; US 8425156 B2 20130423; WO 2008145862 A2 20081204; WO 2008145862 A3 20090625

DOCDB simple family (application)
FR 0703086 A 20070427; AT 08805507 T 20080424; BR PI0810129 A 20080424; DK 08805507 T 20080424; EP 08805507 A 20080424; FR 2008000590 W 20080424; US 59762708 A 20080424