

Title (en)
SUBMERGED OBJECT SUSPENDED FROM A TOWING CABLE OPTIMISED TO NEUTRALISE DISRUPTING HYDRODYNAMIC FORCES

Title (de)
ZUR NEUTRALISIERUNG VON HYDRODYNAMISCHEN UNTERBRECHUNGSKRÄFTEN OPTIMIERTES UNTERWASSEROBJEKT AN EINEM SCHLEPPKABEL

Title (fr)
OBJET IMMERGÉ SUSPENDU À UN CÂBLE DE REMORQUAGE OPTIMISÉ POUR NEUTRALISER DES FORCES HYDRODYNAMIQUES PERTURBATRICES

Publication
EP 3201073 A1 20170809 (FR)

Application
EP 15775175 A 20151001

Priority

- FR 1402209 A 20141001
- EP 2015072740 W 20151001

Abstract (en)
[origin: WO2016050936A1] The invention relates to an object (20) that can be towed in a fluid by a cable (12) according to a substantially horizontal transport axis (X); the object (20) including a body (21) suspended by gravity from the cable (12) by an attachment arm (22a, 22b), and including: an outer hydrodynamic surface (24) which is symmetrical relative to a vertical plane (Psv) containing the transport axis (X), so as to limit the lateral lift of the body (21); and an opening (30) passing through the body (21) according to a vertical axis (Z), configured such as to balance the pressures of the fluid flowing along the outer surface (24), making it possible to limit the hydrodynamic forces that may be generated perpendicular to the transport axis (X) driving a rotating force around the transport axis (X) countering the effect of gravity.

IPC 8 full level
B63B 21/66 (2006.01)

CPC (source: EP US)
B63B 21/66 (2013.01 - EP US); **B63B 2211/02** (2013.01 - US)

Citation (search report)
See references of WO 2016050936A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2016050936 A1 20160407; AU 2015326850 A1 20170420; AU 2015326850 B2 20180906; CA 2963308 A1 20160407; CA 2963308 C 20190924; EP 3201073 A1 20170809; EP 3201073 B1 20190130; FR 3026714 A1 20160408; FR 3026714 B1 20180126; SG 11201702546P A 20170427; US 10029765 B2 20180724; US 2017291666 A1 20171012

DOCDB simple family (application)
EP 2015072740 W 20151001; AU 2015326850 A 20151001; CA 2963308 A 20151001; EP 15775175 A 20151001; FR 1402209 A 20141001; SG 11201702546P A 20151001; US 201515515579 A 20151001