

Title (en)
Launch device for underwater device

Title (de)
Startvorrichtung für Tauchkörper

Title (fr)
Dispositif lanceur pour des corps immergés

Publication
EP 2124012 A3 20130529 (DE)

Application
EP 09006197 A 20090507

Priority
DE 102008025015 A 20080524

Abstract (en)
[origin: EP2124012A2] The starting device has a storage container (2) for storing an immersion body (4). A hydraulically actuatable telescopic cylinder (14) is provided for the ejection of the immersion body from the storage container. The hydraulically actuatable telescopic cylinder is arranged in structure clearance of the storage container. A hydraulic accumulator (28) is arranged in an annular space around an outer, fixed cylinder of the telescopic cylinder for hydraulic power supply of the telescopic cylinder.

IPC 8 full level
F41F 3/10 (2006.01)

CPC (source: EP KR US)
B63G 8/32 (2013.01 - KR); **F41F 3/10** (2013.01 - EP KR US)

Citation (search report)

- [Y] US 1985184 A 19341218 - EMILIEN METHLIN NICOLAS
- [Y] US 4523538 A 19850618 - HOLLMANN MARTIN [US], et al
- [Y] US 3631760 A 19720104 - MORAN STEPHEN F
- [Y] US 5085122 A 19920204 - BERLAM GARY R [US], et al

Cited by
EP2336019A1; EP2657126A3; FR2953804A1

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 TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2124012 A2 20091125; EP 2124012 A3 20130529; EP 2124012 B1 20170719; DE 102008025015 A1 20091126;
DE 102008025015 B4 20170209; ES 2644091 T3 20171127; KR 101110774 B1 20120322; KR 20090122326 A 20091127

DOCDB simple family (application)
EP 09006197 A 20090507; DE 102008025015 A 20080524; ES 09006197 T 20090507; KR 20090043380 A 20090519