Title (en)
EJECTION TUBE FOR A SUBMARINE

Title (de)
AUSSTOSSROHR FÜR UNTERSEEBOOT

Title (fr)
TUBE D'ÉJECTION POUR SOUS-MARIN

Publication
EP 3189296 B1 20180912 (DE)

Application
EP 15744162 A 20150723

Priority
• DE 102014217747 A 20140904
• EP 2015066851 W 20150723

Abstract (en)
[origin: WO2016034331A1] The invention relates to a submarine comprising at least one ejection tube (2) for ejecting an ejection element (6) from the submarine and comprising an ejecting device which has a working cylinder (18) that is movement-coupled to the ejection element (6). Two lines (28, 30) which can be closed by blocking means and which have different cross-sections open at a working cylinder (18) chamber (24) which is to be supplied with pressure in order to eject the ejection element (6), the cylinder chamber (24) being fluidically connectable to a pressurized gas source via said lines. The two lines (28, 30) are collectively connected to a compressed air distributor (32) of a compressed air on-board system (34) of the submarine. A second cylinder chamber (26) of the working cylinder (18) forms a gas spring. The ejecting device has a transport slide (10) which is movably guided in the ejection tube (2) and which is movement-coupled to a piston (20) of the working cylinder (18) via a traction cable (12) that forms a speed increaser.

IPC 8 full level
F41F 3/10 (2006.01)

CPC (source: EP KR)
B63G 8/001 (2013.01 - KR); **B63G 8/32** (2013.01 - KR); **F41F 3/10** (2013.01 - EP KR); **F42B 19/00** (2013.01 - KR)

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)
DE 102014217747 A1 20160310; EP 3189296 A1 20170712; EP 3189296 B1 20180912; ES 2700373 T3 20190215; KR 102012112 B1 20190819; KR 20170039708 A 20170411; WO 2016034331 A1 20160310

DOCDB simple family (application)
DE 102014217747 A 20140904; EP 15744162 A 20150723; EP 2015066851 W 20150723; ES 15744162 T 20150723; KR 20177005683 A 20150723