

Title (en)
COMPACT DEPLOYMENT AND RETRIEVAL SYSTEM FOR A TOWED DECOY UTILIZING A SINGLE CABLE EMPLOYING FIBER OPTICS

Title (de)
KOMPAKTEINSATZ- UND BERGUNGSSYSTEM FÜR EINEN GESCHLEPPTEN DÜPPEL UNTER VERWENDUNG EINES FASEROPTIK
EINSETZENDEN EINZELNEN KABELS

Title (fr)
SYSTEME COMPACT DE DEPLOIEMENT ET DE RECUPERATION POUR UN LEURRE REMORQUE UTILISANT UN SEUL CABLE A FIBRE
OPTIQUE

Publication
EP 1442268 A4 20101208 (EN)

Application
EP 02801030 A 20021010

Priority
• US 0232514 W 20021010
• US 32860301 P 20011011
• US 32861701 P 20011011
• US 32859401 P 20011011
• US 2735201 A 20011220
• US 2732501 A 20011220
• US 10571602 A 20020325

Abstract (en)
[origin: WO03031259A2] A fast deployment and retrieval system permits the rapid deployment of a decoy in seconds in response to an incoming threat, thus eliminating the necessity of pre-deployment, with retrieval permitting reeling in and deployment of the decoy a number of times during a mission in response to threats, and a commensurate reduction in life cycle cost. Upon detection of an incoming threat by a warning receiver, a controller coupled to a transmission releases a brake that is utilized to control the speed of deployment, whereas upon retrieval, the transmission drives a motor for retrieval of the decoy. The system is thus reusable, fast reacting, and also minimizes range penalty considerations because the decoy is only deployed when needed. In one embodiment, the system accommodates both a towing cable and a fiber-optic signal cable in which apparatus for unwinding of the cables is mechanically ganged together so that the cables pay out at the same rate. This type of payout lowers the stress on the fragile fiber-optic cable making possible multiple deployments and retrievals in response to separate threats during a mission. In another embodiment, a single, structural member with embedded conductors is utilized to connect the towed device to the round assembly.

IPC 1-7
F41J 9/10

IPC 8 full level
B64D 3/02 (2006.01); **F41J 2/00** (2006.01); **F41J 9/10** (2006.01); **H01Q 1/30** (2006.01); **G01S 7/02** (2006.01)

CPC (source: EP)
B64D 3/02 (2013.01); **F41J 2/00** (2013.01); **F41J 9/10** (2013.01); **H01Q 1/30** (2013.01); **G01S 7/021** (2013.01)

Citation (search report)
• [Y] EP 0943541 A2 19990922 - DORNIER GMBH [DE]
• [YD] US 5603470 A 19970218 - FITZGERALD PATRICK J [US], et al
• [Y] GB 2303755 A 19970226 - DASSAULT ELECTRONIQUE [FR]
• [Y] US 5083723 A 19920128 - GRIEB PAUL [US], et al
• [Y] US 5039193 A 19910813 - SNOW JAMES W [CA], et al
• [Y] US 4852455 A 19890801 - BRUM ROGER D [US]
• See references of WO 03032023A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03031259 A2 20030417; WO 03031259 A3 20031030; AU 2002356557 B2 20081218; AU 2002356559 B2 20081218;
CA 2462896 A1 20030417; CA 2462896 C 20100323; CA 2462907 A1 20030417; CA 2462908 A1 20030417; CA 2462908 C 20100330;
EP 1442268 A2 20040804; EP 1442268 A4 20101208; EP 1442317 A2 20040804; EP 1442317 A4 20110817; EP 1444152 A2 20040811;
EP 1444152 A4 20101124; WO 03031296 A2 20030417; WO 03031296 A3 20031016; WO 03032023 A2 20030417; WO 03032023 A3 20030912

DOCDB simple family (application)
US 0232502 W 20021010; AU 2002356557 A 20021010; AU 2002356559 A 20021010; CA 2462896 A 20021010; CA 2462907 A 20021010;
CA 2462908 A 20021010; EP 02789186 A 20021010; EP 02801027 A 20021010; EP 02801030 A 20021010; US 0232501 W 20021010;
US 0232514 W 20021010