

Title (en)
Self leveling integrated lifting device

Title (de)
Selbstnivellierende Hubvorrichtung

Title (fr)
Dispositif de levage autonivellant

Publication
EP 1334947 A3 20041124 (EN)

Application
EP 02425657 A 20021030

Priority
• CA 2427405 A 20030501
• IT RM20010646 A 20011102

Abstract (en)
[origin: EP1334947A2] This self-leveling device is employed in the field of lifting of aircraft, helicopters, civil and military flying vehicles, watercraft, camping vehicles, trains, bridges, radar, etc., and for all those activities that require self-leveling and centring during lifting and lowering operations with fast results, without damages to the structure and in perfect safety (eg.: for helicopter lifting, for internal load balance, for safety during take-off and landing). The device is composed of a number of electromechanical lifting groups (Fig.01) that operate synchronistically and autonomously from one another, linked with an electronic central general control (Fig.12) for operation and a leveling cell (Fig.05). The whole system provides perfect self-leveling in case of unstable ground, for weighing and leveling purposes, targeting, weight balance, maintenance, etc. <IMAGE>

IPC 1-7
B66F 3/46

IPC 8 full level
B66F 3/46 (2006.01)

CPC (source: EP)
B66F 3/46 (2013.01)

Citation (search report)
• [X] EP 0287044 A1 19881019 - HYDRO GERAETEBAU GMBH & CO KG [DE]
• [X] EP 0532970 A1 19930324 - HYDRO GERAETEBAU GMBH & CO KG [DE]
• [X] FR 2491048 A1 19820402 - SOVAM [FR]
• [X] DE 3537640 A1 19870423 - ZIPPO GMBH [DE]
• [X] PATENT ABSTRACTS OF JAPAN vol. 0154, no. 68 (M - 1184) 27 November 1991 (1991-11-27)

Cited by
CN109443641A; CN102880100A; CN103874650A; EP3718950A1; WO2005066062A1; WO2013029591A1; WO2007113891A3; WO2007113891A2; US8567762B2

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EP 02425657 A 20021030; AT 02425657 T 20021030; CA 2427405 A 20030501; CY 061101744 T 20061205; DE 60214966 A 20021030; DE 60214966 T 20021030; DK 02425657 T 20021030; ES 02425657 T 20021030; IT RM20010646 A 20011102