

Title (en)
Illuminated inflatable balloon

Title (de)
Beleuchteter aufblasbarer Ballon

Title (fr)
Ballon gonflable éclairant

Publication
EP 0679413 B1 19970702 (FR)

Application
EP 95400952 A 19950427

Priority
FR 9405216 A 19940429

Abstract (en)
[origin: EP0679413A1] The balloon (1) has a flexible outer surface (1) which is connected an electric cable with an outer sheath (27). A sealed connection through the balloon wall is made by an outer plate (4) with inner ring and sealed connections (13). Nut connections (28) on the outer wall allow connection to an inner section. The cable connects a power source on the ground to a light in the centre of the balloon. An actuation device inside the balloon consists of a spring (7) which is tensioned by a flexible connector and connected to the loop (17) of a two-sided pin (19). Switches (25) are positioned between the power source and the light. A wire (5) links part of the surface and the actuator which is positioned at another location at the surface periphery. The pin has a sliding holder (24) and an inner spring (15). The pin base (21) is clear of the switch (26) when the balloon is inflated, but pushes the switch closed when the balloon is deflated, switching off the electricity. <IMAGE>

IPC 1-7
A63B 43/06; **A63H 27/10**

IPC 8 full level
A63H 27/10 (2006.01); **B64B 1/58** (2006.01); **F21S 8/00** (2006.01); **A63B 43/06** (2006.01); **F21V 23/04** (2006.01); **F21V 25/04** (2006.01)

CPC (source: EP KR US)
A63B 43/06 (2013.01 - KR); **A63H 27/10** (2013.01 - EP US); **F21V 3/023** (2013.01 - EP US); **A63B 43/06** (2013.01 - EP US); **A63H 2027/1058** (2013.01 - EP US); **A63H 2027/1091** (2013.01 - EP US); **F21V 23/04** (2013.01 - EP US); **F21V 25/04** (2013.01 - EP US)

Cited by
SG128524A1; US6012826A; EP0990618A1; FR2784087A1; DE202005022032U1; US7036958B2; EP0834693A1; WO0244613A1

Designated contracting state (EPC)
AT BE CH DE DK ES GB GR IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0679413 A1 19951102; **EP 0679413 B1 19970702**; AT E154888 T1 19970715; AU 2449395 A 19951129; AU 681792 B2 19970904; BR 9507543 A 19970805; CA 2189074 A1 19951109; CA 2189074 C 20040727; CN 1073863 C 20011031; CN 1148816 A 19970430; CZ 292906 B6 20040114; CZ 312896 A3 19970212; DE 69500391 D1 19970807; DE 69500391 T2 19980129; DK 0679413 T3 19980202; ES 2105849 T3 19971016; FR 2719228 A1 19951103; FR 2719228 B1 19960726; HU 219971 B 20011028; HU 9602970 D0 19970128; HU T75892 A 19970528; JP 3267624 B2 20020318; JP H10500870 A 19980127; KR 100336149 B1 20021127; KR 970702741 A 19970610; MX 9605170 A 19971231; MY 114877 A 20030228; NZ 285412 A 19970727; PL 176969 B1 19990831; PL 320615 A1 19971013; RU 2123874 C1 19981227; US 5782668 A 19980721; WO 9529739 A1 19951109; ZA 953215 B 19961021

DOCDB simple family (application)
EP 95400952 A 19950427; AT 95400952 T 19950427; AU 2449395 A 19950427; BR 9507543 A 19950427; CA 2189074 A 19950427; CN 95193197 A 19950427; CZ 312896 A 19950427; DE 69500391 T 19950427; DK 95400952 T 19950427; ES 95400952 T 19950427; FR 9405216 A 19940429; FR 9500550 W 19950427; HU 9602970 A 19950427; JP 52802895 A 19950427; KR 19960706082 A 19961028; MX 9605170 A 19950427; MY PI9501141 A 19950428; NZ 28541295 A 19950427; PL 32061595 A 19950427; RU 96122870 A 19950427; US 72742296 A 19961018; ZA 953215 A 19950420