Title (en)

Illuminated inflatable balloon with integrated control unit

Title (de)

Beleuchteter aufblasbarer Ballon mit integrierter Steuervorrichtung

Title (fr)

Ballon d'éclairage à enveloppe gonflable et à bloc de commande intégré

Publication

EP 0834693 B1 20010704 (FR)

Application

EP 97410105 A 19970919

Priority

FR 9612207 A 19961002

Abstract (en)

[origin: EP0834693A1] The lamp has an inflatable envelope (12) that encloses the light source (14) and its controls (18). The envelope is made of a translucent flexible material that is sealed round the light source and its controls. The envelope can be inflated with air or helium through a valve (24) that allows external inflation or release of air or helium. The envelope is attached to the top of the light source (48) and to the bottom of the electronic control unit (20). A grille extends from the side of the light source to prevent contact between the envelope and the light source and to improve the mechanical rigidity of the lamp assembly.

IPC 1-7

F21S 6/00; F21V 1/06

IPC 8 full level

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CPC (source: EP KR US)

F21V 3/026 (2013.01 - EP US); **F21V 31/00** (2013.01 - KR); A63H 2027/1058 (2013.01 - EP US); F21S 8/08 (2013.01 - EP US); F21V 15/02 (2013.01 - EP US)

Cited by

GB2329874A; DE10212353A1; FR2852081A1; DE10210165A1; GB2318409B; US11287103B2; WO2021098901A1; US7036958B2; US6683719B2; WO0192779A1; WO0244613A1; EP1059483A2; US6305827B1

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DOCDB simple family (application)

EP 97410105 A 19970919; AR P970104550 A 19971002; AT 97410105 T 19970919; AU 3932597 A 19970930; BR 9704958 A 19971001; CA 2215135 A 19970924; CN 97120008 A 19970929; DE 69705476 T 19970919; ES 97410105 T 19970919; FR 9612207 A 19961002; GR 20010401585 T 20010927; ID 973321 A 19970929; JP 2002332748 A 20021115; JP 27000797 A 19971002; KR 19970050786 A 19971001; MX 9707365 A 19970926; MY PI9704324 A 19970917; PT 97410105 T 19970919; RU 97116398 A 19971001; SG 1997003491 A 19970922; US 93404897 A 19970919; ZA 978743 A 19970930