

Title (en)
LIFE BUOY

Title (de)
RETTUNGSBOJE

Title (fr)
BOUÉE DE SAUVETAGE

Publication
EP 4257475 A4 20240313 (EN)

Application
EP 21899814 A 20211109

Priority
• CN 202011391230 A 20201204
• CN 2021129458 W 20211109

Abstract (en)
[origin: EP4257475A1] The application relates to a life buoy, including a life buoy body, wherein a plurality of radar reflectors are arranged in the life buoy body; the plurality of radar reflectors are distributed in an annular array by using a center of the life buoy body as a center; each radar reflector includes a Luneburg lens and a reflecting piece; the Luneburg lens is made of a foamed dielectric material; a reflecting surface is formed on the reflecting piece; and the reflecting surface of the reflecting piece of each radar reflector is attached to a surface of the Luneburg lens. The application has the advantages of being simple in structure, scientific in design, convenient to use, and good in safety, and capable of displaying a large image on a radar screen, thereby avoiding search and rescue omission.

IPC 8 full level
B63C 9/13 (2006.01); **B63C 9/20** (2006.01)

CPC (source: CN EP)
B63C 9/082 (2013.01 - EP); **B63C 9/13** (2013.01 - CN); **B63C 9/20** (2013.01 - CN EP); **H01Q 1/34** (2013.01 - EP); **H01Q 15/08** (2013.01 - EP); **H01Q 15/18** (2013.01 - EP); **H01Q 21/205** (2013.01 - EP)

Citation (search report)
• [X] GB 1442428 A 19760714 - TOKYO KEIKI KK
• [A] EP 1294052 A1 20030319 - VIGNUDELLI ADRIANO [IT]
• [A] ANONYMOUS: "Smart Buoy Co. :: Luneberg Lenses", 2 March 2019 (2019-03-02), pages 1 - 2, XP093123980, Retrieved from the Internet <URL:https://web.archive.org/web/20190302164330/https://www.buoys.com.au/index.php?page=radarreflectors&subpage=luneberglenses> [retrieved on 20240125]
• See also references of WO 2022116780A1

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)
EP 4257475 A1 20231011; **EP 4257475 A4 20240313**; CN 112407196 A 20210226; CN 112407196 B 20220531; WO 2022116780 A1 20220609

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