

Information on Search Strategy - Pilot phase (see OJ 2015, A86)

The type of information contained in this sheet may change during the pilot for improving the usefulness of this new service.

Application Number

PCT/IB2018/050858

TITLE: THERMAL MULTI-LAYER INSULATION AND RADIO-FREQUENCY ABSORBER BLANKET

APPLICANT: HPS - HIGH PERFORMANCE STRUCTURES, GESTAO E

IPC CLASSIFICATION: H01Q17/00, H01Q15/00

EXAMINER: Blech, Marcel

CONSULTED DATABASES: EPODOC, WPI, NPL, XPI3E, IEEE XPLORE

CLASSIFICATION SYMBOLS DEFINING EXTENT OF THE SEARCH:

IPC:

CPC: H01Q15/0006, H01Q15/0026, H01Q15/0086, H01Q17/00, H01Q17/004, H01Q17/005, H01Q17/007, H01Q17/008

FI/F-TERMS:

KEYWORDS OR OTHER ELEMENTS FEATURING THE INVENTION:

A multi-layer absorber comprising comprising at least one thin resistive sheet having a periodic pattern of square, rectangular, hexagonal, or circular patches. The at least one resistive sheets are spaced and supported by dielectric support layers, such as e.g. foam. The structure is backed by a ground plane. An additional infrared filter may be disposed on the top surface. The infrared filter comprises two self-complementary layers of checkerboard patterns, wherein the square patches of the checkerboard patterns are not connected.

multi-layer absorber

resistive sheet

periodic pattern of square, rectangular, hexagonal, or circular patches

infrared filter

optical filter

frequency selective surface (FSS)

self-complementary pattern

self-complementary frequency selective surface (FSS)

unconnected checkerboard pattern

unconnected chessboard pattern