

Title (en)

VEHICLE ASSEMBLY COMPRISING A RADAR SENSOR AND A SET OF LAYERS

Title (de)

FAHRZEUGANORDNUNG MIT EINEM RADARSENSOR UND EINEM SCHICHTENSATZ

Title (fr)

ENSEMBLE DE VÉHICULE COMPRENANT UN CAPTEUR RADAR ET UN ENSEMBLE DE COUCHES

Publication

**EP 4162295 A1 20230412 (FR)**

Application

**EP 21728933 A 20210601**

Priority

- FR 2006005 A 20200609
- EP 2021064617 W 20210601

Abstract (en)

[origin: WO2021249817A1] The invention relates to a vehicle assembly (1) for a vehicle (2), said vehicle assembly (1) comprising: - a radar sensor (10) configured to emit/receive radar waves (R1), said radar sensor (10) being placed facing a set of layers (C), and - said set of layers (C) comprising at least two dielectric layers (11, 12), namely a primary layer (11) and a secondary layer (12), separated by a layer of air (13), - characterised in that said layer of air (13) has a thickness (e3) equal to  $(m_3 \times (\lambda/2))/\cos(\theta_3)$ , where  $\theta_3$  is an angle of incidence of emergent reflected waves (R20) striking said secondary layer (12) and  $m_3=1, \dots$  to N, N being an integer, said emergent reflected waves (R20) being derived from radar waves (R1) emitted by said radar sensor (10).

IPC 8 full level

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Citation (search report)

See references of WO 2021249817A1

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