

Title (en)

Infrared shielding and radar attenuating textile material

Title (de)

Textiles Material zur Infrarotabschirmung und Radardämpfung

Title (fr)

Matière textile à blindage contre le rayonnement infrarouge et atténuation les ondes radar

Publication

EP 1703247 A1 20060920 (EN)

Application

EP 05290561 A 20050314

Priority

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Abstract (en)

The material consists of a distance fabric (1) made up of a first textile layer (2), a second textile layer (3) and spacer yarns (4) extending from the first to the second textile layer. The first and the second textile layers have radar attenuating properties and the distance fabric is free of any conductive layer having a surface resistivity smaller than 50 W/sq. Compared to the known two-dimensional radar attenuating textile materials a more effective radar attenuation can be achieved without having to use a closed material. The first and the second textile layers (2, 3) of the distance fabric (1) have indeed an open texture comprising openings (5) of between 2 and 400 mm² which form at least 25% of the surface of the first and respectively the second textile layer. Due to the aeration of the textile material, an infrared reflecting layer is not required to avoid a too strong heating of the textile material thus providing an effective infrared shield without requiring any layer which is highly reflective for radar radiation.

IPC 8 full level

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CPC (source: EP)

D04B 21/12 (2013.01); **F41H 3/02** (2013.01); **H01Q 17/005** (2013.01); **D10B 2403/0213** (2013.01); **D10B 2507/02** (2013.01)

Citation (search report)

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