

**"FUNCTIONAL DEVICE INTEGRATED INTO A TRAVERSABLE SURFACE AND METHOD FOR
PRODUCING A TRAVERSABLE SURFACE WITH SAME"**

DESCRIPTIVE ABSTRACT

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Functional device (100), in particular integrated into a traversable surface (200),
comprising in succession: a first protective film (101) arranged on the front face of the
device, with Young's modulus E_1 and thermal dilatation coefficient CTE_1 , a first exterior
10 encapsulation film (102), with Young's modulus E_2 and thermal dilatation coefficient
 CTE_2 , an interior encapsulation film (103), with Young's modulus E_3 and thermal
dilatation coefficient CTE_3 , a second exterior encapsulation film (104), with Young's
modulus E_4 and thermal dilatation coefficient CTE_4 , a second plate (105) arranged on the
rear face of the device, with Young's modulus E_5 and thermal dilatation coefficient CTE_5 ,
15 E_1 and E_5 being similar or identical, E_2 and E_4 being similar or identical, $E_1 > E_2$ and $E_4 <$
 E_5 , CTE_1 and CTE_5 being similar or identical, CTE_2 and CTE_4 being similar or identical,
 $CTE_1 < CTE_2$ and $CTE_4 > CTE_5$, and one of the films selected from the first exterior
encapsulation film (102), the interior encapsulation film (103) and the second exterior
encapsulation film (104) encapsulating the active elements; and method for producing a
20 functional traversable surface.

Figure for the abstract: Figure 2.