

Title (en)
COMPOSITE LIGHTING COLUMN

Title (de)
ZUSAMMENGESETZTE LICHTSÄULE

Title (fr)
COLONNE D'ÉCLAIRAGE COMPOSITE

Publication
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Application
EP 16722963 A 20160322

Priority
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Abstract (en)
[origin: WO2016153372A1] The fundamental structural element of the developed lighting column is the body (1) in the shape of a pipe, which is made of a composite, mainly polyester and glass resin, usually chemically bonded, as well as glass fibers. The composite contains a luminophore, which constitutes from 2% to 8% of the column structure mass, however, most favourably, the composite mass contains at least 3% of filler that has flare effects. Favourably, as luminescent materials are used powders with filler grain size of between 10 and 40 micrometers. Inside the body pipe (1) a light source (4) is installed, which can, favourably, be a LED lamp, emitting visible white light with low power, i.e. from 1 to 5 Watt [W]. The composite lighting column is also equipped with a louver fitting (3), and a luminophore is also blended with a mixture that constitutes the external coating (2). However, additionally the lighting column is connected to a motion detector (5), which constitutes an element of the body (1) or which is placed nearby. Similarly, the body (1) is covered with an external coating (2) made of gelcoat and is in a colorless or colored version, or with a fully or partially printed coating, wherein, to the gelcoat mixture made of composites a luminophore is added.

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