Title (en)

LIGHT COMMUNICATION ACCESS POINT AND METHODS USING SAID ACCESS POINT

Title (de)

LICHTKOMMUNIKATIONSZUGANGSPUNKT UND VERFAHREN MIT VERWENDUNG DES BESAGTEN ZUGANGSPUNKTS

Title (fr)

POINT D'ACCÈS DE COMMUNICATION PAR LA LUMIÈRE, ET PROCÉDÉS UTILISANT CE POINT D'ACCÈS

Publication

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Application

EP 22710668 A 20220221

Priority

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- FR 2022050306 W 20220221

Abstract (en)

[origin: WO2022180333A1] The subject matter of the invention is a light communication access point (1), comprising a modulated light emitter (10a), an output port for modulated light emitted by the emitter (10a), a modulated light input port and a modulated light receiver (10b) capable of receiving the modulated light entering the access point through the input port, the access point (1) being capable of transmitting and receiving information via the modulated light in a predetermined overall coverage area. The access point comprises a light shutter device (14) positioned between the modulated light emitter (10a) and the output port, the light shutter device (14) being digitally controllable to shut off the passage of the modulated light emitted by the emitter (10a) in one or more areas which are referred to as shut-off areas and are variable in terms of number, shape, dimensions and position on the light shutter device (14), and being capable of dividing the predetermined overall coverage area accordingly into one or more non-communication sub-areas and into one or more communication sub-areas. The light shutter device is positioned between the emitter and the output port, the emitter comprises at least one directional light source, and the access point comprises an optical unit positioned between the emitter and the output port. The optical unit comprises a collimating lens and a divergent lens, and the light shutter device is centred on the optical axis of the optical unit and positioned between the collimating lens and the divergent lens. The optical unit is configured in such a way as to allow the access point, when no shut-off area has been formed by the light shutter device, to emit and receive information over the entire predetermined overall coverage area defined by a light emitting/receiving cone.

IPC 8 full level

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Citation (search report)

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