

Title: Fitting for a glass door**Description**

The invention relates to a fitting for a glass door.

Fittings for glass doors are very well-known. They generally
5 consist of a hinge strap and a counter-plate, which in
between them accommodate and maintain the glass door.
However, these conventional fittings merely offer a few
possibilities to improve the visual appearance thereof.

The document DE 39 01 395 A1 describes a swinging door
10 for shower partitionings, in which a swinging door is used,
which requires provision of cutouts in the door for the
hinges to be horizontally mounted.

A door handle, which is provided with a lighting means, is
disclosed in the document DE 299 06 699 U1. The power
15 supply for the lighting means is executed as a low-voltage
system.

Therefore, it is an object of the present invention to provide
a fitting, which is improved with regard to the visual
appearance thereof.

20 This problem is solved with the characteristics specified in
patent claim 1. Advantageous embodiments of the object of

patent claim1 will become apparent from the dependent claims.

The fitting being provided with a lighting means, visual effects are created, which animate the fitting and allow for
5 individual adaptation to various room situations.

According to an advantageous further development, it is intended the glass door be provided with a glass cutout into which the fitting engages, and in that the lighting means be disposed within the glass cutout. This allows for the light of
10 the lighting means to radiate in the plane of the glass door and to produce a discrete and decorative illumination.

In a preferred embodiment, the lighting means are disposed at the face edge of the fitting. Additionally or as an alternative, the lighting means may be provided at the
15 upperside and/or at the underside of the fitting. This results in a multitude of conceptual possibilities, offering a variety of architectural designs.

Mounting the lighting means is particularly easy, if, according to an advantageous further development, the
20 lighting means are received in a hollow space created between the glass cutout and the fitting. Thus, the lighting means are effectively protected from exterior influences and safely housed.

In order to achieve protection against exterior influences and to isolate the fitting, which is possibly made from a conductive material, the hollow space is preferably completely or partially filled with an electrically isolating
5 sealing.

Advantageously, the lighting means are formed as LEDs or the like. However, another lighting means using low energy consumption may be employed.

The LEDs are connected to a control and a power supply
10 for receiving power supply and control.

Further details, characteristics and advantages of the invention will become apparent from the following description of preferred embodiments, reference being made to the figures, in which:

15 Figure 1: is a lateral view of an inventive fitting according to a first embodiment;

Figure 2: is a lateral view of an inventive fitting according to a second embodiment; and

Figure 3: is a section according to line A-A in Figure 1.

20 In Figures 1 and 2 a lateral view of a glass door 1 is illustrated in connection with an inventive fitting 2. The fitting 2 is inserted into a glass cutout 4 of the glass door 1

and surrounds the glass door 1 laterally with a hinge strap 5 and a counter-plate 11. Corresponding attachment boreholes 6 are built into the hinge strap 5 and into the counter-plate 11, which boreholes are penetrated by a
5 connecting member 10, which tightens the hinge strap 5 and the counter-plate 11 against each other for retaining the glass door 1. A glass protection 12 is placed between the hinge strap 5, the counter-plate 11 and the glass door 1.

10 At the part protruding from the glass cutout 4, the fitting 2 is provided with a borehole 3 serving for the attachment of the fitting 2.

A hollow space is formed between the fitting 2 and the glass cutout 4 in the glass door 1, in which space lighting
15 means in form of LEDs 7 are provided. These LEDs 7 radiate light into the glass cutout 4 such that the light enters into the plane of the glass door 1. On the side oriented towards the fitting 2, the LEDs 7 are provided with a circuit board 8. Moreover, the still resulting hollow space
20 between the fitting 2 and of the glass cutout 4 is filled in with an electrically isolating sealing 9.

Figure 1 shows a first embodiment of the inventive fitting 2. In this embodiment, the LEDs 7 are only provided on the face edge side of the fitting 2.

A further embodiment of the inventive fitting 2 is illustrated in Figure 2, in which several LEDs 7 are provided, which are not only placed on the face edge side of the fitting 2, but also on the upperside and on the underside thereof.

- 5 The LEDs 7 may be provided with an additional circuit, which allows for varying the light transmitted by the LEDs 7 with regard to the connecting time thereof, intensity thereof and/or the colour mixture thereof. Furthermore, the LEDs 7 may be controlled depending on the incident day light,
10 depending on the presence of a person or depending on any other optional program.

References

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| | 1 | glass door |
| | 2 | fitting |
| | 3 | borehole |
| 5 | 4 | glass cutout |
| | 5 | hinge strap |
| | 6 | attachment borehole |
| | 7 | LED |
| | 8 | circuit board |
| 10 | 9 | electrically isolating sealing |
| | 10 | connecting component |
| | 11 | counter-plate |
| | 12 | glass protection |

Patent claims

1. A fitting (2) for a glass door (1) consisting of a hinge strap (5) and a counter-plate (11), the glass door (1) being provided with a glass cutout (4),
5 into which the fitting (2), provided with the lighting means (7), engages, the lighting means being placed within the glass cutout (4).
2. A fitting according to claim 1, characterized in that the lighting means (7) are disposed at the face
10 edge of the fitting (2).
3. A fitting according to one of the preceding claims, characterized in that the lighting means (7) are provided at the upperside and/or at the underside of the fitting (2).
- 15 4. A fitting according to one of the preceding claims, characterized in that the lighting means (7) are received within a hollow space formed between the glass cutout (4) and the fitting (2).
- 20 5. A fitting according to one of the preceding claims, characterized in that the hollow space is at least partially filled in with an electrically isolating sealing (9).

6. A fitting according to one of the preceding claims, characterized in that the lighting means are realized as LEDs (7) or the like.
- 5 7. A fitting according to one of the preceding claims, characterized in that the LEDs (7) are connected to a circuit board (8).