components have to be aligned exactly with one another and in particular a straight and not skewed insertion of the image foil is markedly difficult to perform.

WO 2010/141381 A2 discloses an illuminable image frame which is mounted on the headboard panel of a bed, wherein the frame is constructed to be open or to have a frame opening at an upper side, with the result that the image carrier can be withdrawn upward out of the frame. In order to keep the image carrier in the frame, the lower shank of the frame and the two lateral frame shanks, which together form a U, are provided on the inner side with a plurality of mutually spaced guide profiles in the form of rails or webs, between which the image carrier can be inserted. However, dust and dirt that penetrate into the interior of the frame through the upper side of the frame, which is open for the purpose of replacing images, can have an adverse effect on the illumination device and hence over time impair the brightness of the backlighting of the information carrier to be presented. Moreover, the frame has a tendency to instability, which can have an adverse effect on precise feeding of light into the transparent carrier plate.

Further, US 5,987,794 discloses a display system in which a display cartridge in the form of an LED panel or the like may be inserted laterally into a frame which, for this purpose, has a frame door that is articulated to be laterally pivotal. However, this frame construction is relatively complicated. Moreover, each display cartridge needs its own illumination system.

Taking this as a starting point, the object of the present invention is to provide an improved illuminable device of the type mentioned at the outset which avoids at least one or the other disadvantage of the prior art and develops the latter further in an advantageous manner, or to substantially overcome, or at least ameliorate, one or more disadvantages of existing arrangements. In particular, a simple showcase construction that is inexpensive to manufacture is to make it possible to replace the information carrier rapidly and with simple handling without consequently having to sacrifice backlighting or illumination of the information carrier that provides strong illumination and is efficient from the point of view of illumination engineering.

According to the invention, the stated object is achieved by a device as claimed in claim 1. Preferred embodiments of the invention form the subject matter of the dependent claims.

According to the present invention, there is provided a device for presenting information carriers such as posters, images, advertisements and the like, having at least one transparent carrier plate on which an information carrier, in the form of a foil, film or sheet, may be mounted, a frame surrounding the carrier plate, the frame comprising a plurality of frame parts, which comprise a

removable frame part and a remaining part of the frame, and an illumination device which is mounted on the frame, for illuminating and/or backlighting the information carrier, wherein the frame includes a lateral frame opening through which the carrier plate, together with the information carrier mounted thereon, may be withdrawn from/inserted into the frame in a direction parallel to the frame plane that is defined by the frame, wherein the frame opening may be closed by the removable frame part which is detachably connectable to the remaining part of the frame, with the result that the frame surrounds the information carrier on all sides when the frame opening is closed, wherein the plurality of frame parts of the multiple-part frame are assembled onto a plate-shaped frame carrier, and the frame carrier is arranged on a rear side of the at least one carrier plate, wherein at least the removable frame part is detachably secured to the frame carrier and the remaining part of the frame is held fixed on the frame carrier.

It is thus proposed that the frame be constructed in multiple parts and that a lateral part of the frame be of removable construction, with the result that the carrier plate, together with the information carrier, can be withdrawn laterally from the frame and/or that another information carrier, together with the carrier plate, can be inserted, as a result of which image replacement or information replacement may be performed quickly. According to the invention, the device is characterized in that the frame opening may be closed by a removable frame part which is detachably connectable to the remaining part of the frame, with the result that the frame surrounds the information carrier on all sides when the frame opening is closed. All that needs to be done is to remove the removable frame part in order to be able to replace the information carrier, together with the carrier plate, wherein only the removed frame part has to be put back in place once the replacement is complete. When the frame part is assembled into place again, the frame opening is closed again and the frame surrounds the information carrier on all sides, with the result that the latter is trapped in the frame and cannot fall out. At the same time, the information carrier and the illumination device are protected within the interior of the frame from the penetration of dust, dirt and the like through the frame opening. In particular with a frame opening that is arranged on the upper side of the frame, it is useful that the carrier plate, together with the information carrier, is not only covered at the front side by a frame bezel but is also surrounded on the narrow peripheral side and covered from above, with the result that no dust can trickle in. In addition, when the frame part is assembled into place again, the frame has the increased rigidity of a peripheral frame profile. Taking apart a sandwich structure, including loosening a plurality of screws, and making the adjustment necessary of a plurality of components during reassembly can be dispensed with. In particular, it is also possible for the

illumination device to remain in its provided, assembled place, as a result of which errors of positioning and alignment during reassembly and hence an impairment of the backlighting can be avoided. At the same time, the frame is

CLAIMS:

1. A device for presenting information carriers such as posters, images, advertisements and the like, having at least one transparent carrier plate on which an information carrier in the form of a foil, film or sheet, may be mounted, a frame surrounding the carrier plate, the frame comprising a plurality of frame parts, which comprise a removable frame part and a remaining part of the frame, and an illumination device which is mounted on the frame, for illuminating and/or backlighting the information carrier, wherein the frame includes a lateral frame opening through which the carrier plate, together with the information carrier mounted thereon, may be withdrawn from/inserted into the frame in a direction parallel to the frame plane that is defined by the frame, wherein the frame opening may be closed by the removable frame part which is detachably connectable to the remaining part of the frame, with the result that the frame surrounds the information carrier on all sides when the frame opening is closed, wherein the plurality of frame parts of the frame are assembled onto a plate-shaped frame carrier, and the frame carrier is arranged on a rear side of the at least one carrier plate, wherein at least the removable frame part is detachably secured to the frame carrier and the remaining part of the frame is held fixed on the frame carrier.

2. The device as claimed in claim 1, wherein the removable frame part is formed by a frame shank.

3. The device as claimed in any one of the preceding claims, wherein the remaining part of the frame is constructed in multiple parts and/or includes a plurality of mutually connected frame shanks, wherein the removable frame part may be detachably connected to at least one frame portion of the remaining part of the frame.

4. The device as claimed in any one of the preceding claims, wherein the frame parts are constructed as frame profile parts that are substantially U-shaped in cross section and cover the transparent carrier plate to front and rear by means of marginal webs, with the result that the said carrier plate is surrounded on three sides, namely to front, rear and periphery, by the frame, wherein the said marginal webs are peripheral in construction and delimit a peripheral frame groove in which the said carrier plate is received by means of an edge.

5. The device as claimed in any one of the preceding claims, wherein a carrier profile that is constructed separately from the frame is inserted into the frame, and the carrier profile includes

positioning means for positioning the transparent carrier plate and an illumination means holding section for holding illumination means of the illumination device.

6. The device as claimed in claim 5, wherein the separate carrier profile is received in a frame pocket that is delimited on the one hand by a marginal web of the frame and on the other by the frame carrier, and is secured at the frame and/or the frame carrier.

7. The device as claimed in any one of the claims 5 to 6, wherein the separate carrier profile includes a receiving pocket that is inwardly open toward the transparent carrier plate, in the manner of a groove, for receiving the carrier plate, and the receiving pocket includes an open base and/or a base having base cutouts, and a receiving space for receiving the illumination means of the illumination device is provided below the base such that the illumination means are positioned along the peripheral side of the carrier plate and/or light may be shone onto the peripheral side of the carrier plate by the illumination means such that light emitted by the illumination means may be fed into the said carrier plate through the peripheral side of the carrier plate.

8. The device as claimed in any one of the claims 5 to 7, wherein the carrier profile takes the form of an extruded profile.

9. The device as claimed in any one of the claims 5 to 8, wherein the carrier profile forms a U-shaped inner frame and/or a plurality of carrier profiles are provided on at least two opposite frame sides, in particular on the remaining part of the frame, wherein the inner frame and/or the plurality of carrier profiles form a sliding guide for insertion of the carrier plate together with the information carrier mounted thereon.

10. The device as claimed in any one of the preceding claims, wherein the information carrier that is in the form of a foil, film or sheet is connected to the carrier plate over its entire surface, in particular being laminated onto a front side of the carrier plate.

11. The device as claimed in claim 10, wherein the information carrier is arranged on a front side of the carrier plate and the carrier plate is of a construction providing total reflection on its rear side and/or is provided with a reflective coating, wherein light coming from the illumination device is fed into the carrier plate by way of a peripheral side of the carrier plate.

12. The device as claimed in any one of the preceding claims, wherein the illumination device has an LED strip as the illumination means.

13. The device as claimed in any one of the preceding claims, wherein two transparent carrier plates, on each of which an information carrier which is in the form of a foil, film or sheet may be mounted, may be inserted into the frame with their rear sides turned toward one another, wherein the plate-shaped frame carrier onto which the frame parts are assembled is arranged between the transparent carrier plates and, together with the carrier plates, is surrounded peripherally on three sides, namely to front, rear and periphery, by marginal webs of the frame parts that are U-shaped in cross section.

14. The device as claimed in any one of the preceding claims, wherein the removable frame part is borne about a pivot axis between a position that closes the frame opening and a position that exposes the frame opening, wherein the said pivot axis extends approximately perpendicular to the frame plane that is defined by the frame and/or approximately perpendicular to the longitudinal axis of the removable frame part, and/or is arranged at an end section of the removable frame part, wherein the removable frame part is connected by a pivotal joint that defines the said pivot axis to the remaining part of the frame and/or the plate-shaped frame carrier.

Device for presenting information carriers

ABSTRACT

The invention relates to a device for presenting information carriers, such as posters, pictures, advertisements, and the like, having at least one transparent carrier plate, onto which an information carrier, preferably in the form of foil, film, or sheets can be mounted, a frame (2) surrounding the carrier plate, and an illumination device attached to the frame (2) for illuminating and/or backlighting the information carrier. The frame (2) comprises a lateral frame opening (20), by way of which the carrier plate to which the information carrier is attached can be pulled out/inserted into the frame (2) in a direction that is parallel to the frame plane defined by the frame. According to the invention, the device is characterized in that the frame opening (20) can be locked by way of a removable frame part, which can be detachably connected to the remaining frame part (2b, 2c, 2d) such that the frame (2) encompasses the information carrier (20) on all sides when the frame opening (20) is locked.

Fig. 3