PATENT CLAIMS

1. An automatically actuable flush-bolt mechanism
having a fastening rail for fastening the flush-bolt mechanism in or on a door leaf,
having an actuating mechanism, and
having a locking bolt,
wherein the actuating mechanism comprises a triggering element for automatically displacing the locking bolt from a starting position into a locking position, and also comprises a restoring spring for restoring the locking bolt from the locking position into the starting position,
wherein the flush-bolt mechanism has an automatic override function which, in the event of misalignment of the locking bolt, automatically overrides the actuating mechanism in order to prevent the locking bolt from being lowered all the way into the locking position, wherein the locking bolt has a longitudinal center axis (a),
characterized
in that the actuating mechanism has a displacement element, on which the locking bolt rests by way of a driver, wherein the locking bolt can be brought into the locking position by virtue of the displacement element being moved, and wherein the displacement element can be brought into the starting position, together with the driver resting thereon and the locking bolt, by means of the restoring spring,
in that the displacement element can be displaced in the direction of the longitudinal center axis (a) relative to the locking bolt and driver, and
in that overriding takes place by virtue of this displacement capability.

2. The flush-bolt mechanism as claimed in claim 1, wherein the displacement element forms a bearing

surface, which has the locking bolt passing through it in a displaceable manner and on which the driver rests.

3. The flush-bolt mechanism as claimed in claim 2, wherein the locking bolt passes through a through-opening of the displacement element in a displaceable manner.

4. The flush-bolt mechanism as claimed in any one of claims 1 to 3, wherein the restoring spring is a compression spring, and wherein the displacement element presses onto the restoring spring.

5. The flush-bolt mechanism as claimed in any one of claims 1 to 4, wherein the displacement element is of u-shaped design and has an upper and a lower limb, and wherein the lower limb butts with sliding action against a stop surface of the fastening rail, and wherein the upper limb is designed to be longer than the lower limb and has the locking bolt passing through it in a displaceable manner.

6. The flush-bolt mechanism as claimed in any one of claims 1 to 5, wherein the actuating mechanism has a toggle lever with a first arm and a second arm, which is connected in a pivotable manner to the first arm, wherein the first arm is provided with the triggering element, which projects in front of the fastening rail, and wherein the second arm is operatively connected to the displacement element.

7. The flush-bolt mechanism as claimed in claim 6, wherein the fastening rail has a front plate for bearing on or in a door leaf, and wherein the locking bolt is spaced apart from said front plate

such that the toggle lever is located between the longitudinal center axis of the locking bolt and the front plate.

8. The flush-bolt mechanism as claimed in any one of claims 1 to 7, wherein the restoring spring is spaced apart from the longitudinal center axis (a).

9. The flush-bolt mechanism as claimed in claim 8, wherein the fastening rail has a front plate for bearing on or in a door leaf, and wherein the restoring spring is arranged between the front plate and the locking bolt.

10. The flush-bolt mechanism as claimed in any one of claims 1 to 9, wherein a force-transmitting spring is present, said spring acting on the locking bolt by way of a first end and acting on the displacement element by way of a second end.

11. The flush-bolt mechanism as claimed in claim 10, wherein the force-transmitting spring surrounds the locking bolt, wherein the force-transmitting spring butts, by way of a first end, against the displacement element, on a side of the latter which is located opposite the driver, and rests, by way of a second end, on a bearing surface, which surrounds the locking bolt and is fixed thereto.

12. The flush-bolt mechanism as claimed in any one of claims 1 to 11, wherein the fastening rail has a first guide element, and wherein the driver has a second guide element, which is in engagement with the first guide element, and wherein the locking bolt, in the case of the actuating mechanism being

overridden, can be displaced rectilinearly along its longitudinal center axis (a) by means of said two guide elements.

13. A door-sealing system having a door seal and a flush-bolt mechanism as claimed in any one of claims 1 to 12, wherein the door seal has a seal housing and a sealing element, and wherein the seal housing and the sealing element each have a through-passage opening through which to guide the locking bolt.

14. The door-sealing system as claimed in claim 13, wherein the door seal has a carrier rail, wherein the sealing element is arranged on said carrier rail, and wherein the carrier rail, together with the sealing element, can be lowered and raised automatically in relation to the seal housing.

15. The door-sealing system as claimed in claim 14, wherein the operation of lowering and raising the sealing element is independent of the actuation of the locking bolt.