CLAIMS

1. Device (I) for displacing a door leaf (100) of a transport vehicle with respect to a transport vehicle body, the transport vehicle being a type of train, tram, metro, trolley bus or bus, said door leaf being movable in a displacement movement (A1) between a closed position and an open position, with reference to an opening (104) provided in the transport vehicle body,

this device comprising:

a main body (1),

a fixing means (8) for fixing the door leaf on the main body,

a drive means (30), able to drive the main body under the effect of motor means (106, 108),

a locking means (36), able to move between an active locking position in which they lock the drive means with respect to the main body, in the closed position of the door leaf, and an inactive release position, in which the locking means allow displacement of the drive means with respect to the main body,

a partial opening means (7), able to allow a small movement of the fixing means with respect to the drive means, in the movement direction, from the closed position of the door leaf,

characterized in that

the device (I) further comprises an inhibition means (52) for inhibiting the partial opening means (7), able to immobilize the fixing means (8) with respect to the drive means (30), at least in translation in said displacement movement (A1), when the locking means (36) are in their inactive position.

2. The device according to claim 1, characterized in that the inhibition means (52) are able to move between respectively an active and an inactive position, the inhibition means being able to pass from the active position to the inactive position under an effect of the passage of the locking means (36) from their inactive position to their active position.

3. The device according to claim 2, characterized in that the inhibition means (52) are able to pass from their inactive position to their active position under the effect of the passage of the locking means (36) from their active position to their inactive position.

4. The device according to any of the preceding claims, characterized in that the locking means (36) are secured to the inhibition means (52), at least in rotation about said displacement movement.

5. The device according to any of the preceding claims, characterized in that the locking means comprise at least one roller (36), carried by an arm extending radially from said main body (1).

6. The device according to any of the preceding claims, characterized in that the inhibition means comprise a ring (50) mounted coaxially with respect to the main body, and an inhibition tooth (52) projecting radially with respect to said ring.

7. The device according to the preceding claim, characterized in that the fixing means (8) define a recess (88) for selective reception of the inhibition tooth (52).

8. The device according to the preceding claim, characterized in that, in an inhibition position, the inhibition tooth (52) is able to come into abutment against walls of the recess (88), in said displacement movement.

9. The device according to any of the preceding claims, characterized in that the partial opening means comprise a sleeve (7), mounted coaxially with respect to the main body (1), this sleeve being constrained to move at least in translation with the fixing means (8) in said displacement movement.

10. The device according to the preceding claim, characterized in that the sleeve (7) is able to move on a principal axis of the main body, with respect to the drive means (30), counter to an elastic return means (56), this elastic return means comprising in particular a compression spring (56), a first end (56') of which bears against a stop cover (5), mounted on the main body, and a second end (56") of which bears against the sleeve (7).

11. A door for a transport vehicle, the transport vehicle being a type of train, tram, metro, bus or trolley bus, comprising a fixed frame secured to the frame of said transport vehicle, at least one leaf (100), and at least one displacement device (I), allowing a displacement of said at least one leaf with respect to said fixed frame (102), each at least one displacement device being in accordance with any of the preceding claims.

12. A transport vehicle, the transport vehicle being a type of train, tram, metro, bus or trolley bus, comprising at least one door according to the preceding claim.