CLAIMS

1 An elevator door anti-fall device, provided in an elevator door device including a plate portion provided along an inner wall of a shaft structure, a rail fixed to the plate portion and provided along an inner surface of the plate portion, a roller configured to roll on the rail, an auxiliary roller being in abutting contact with a lower portion of the rail, and an elevator door configured to open and close by being connected to the roller and the auxiliary roller, for preventing the elevator door from falling,

the elevator door anti-fall device comprising:

a laterally restricting portion arranged between the roller and the plate portion so as to restrict the roller from moving ~~laterally~~ in a direction orthogonal to the direction in which the rail extends at least when the elevator door is closed, the laterally restricting portion being fixed to any one of the plate portion and the rail.

2 The elevator door anti-fall device according to claim 1, wherein

the laterally restricting portion is arranged so as to overlap or cover at least an upper portion of the roller in a direction in which the roller and the plate portion face each other.

3 The elevator door anti-fall device according to claim 1 or 2, comprising:

an upward restricting portion arranged above the roller so as to restrict the roller from separating upward from the rail at least when the elevator door is closed, the upward restricting portion being fixed to any one of the laterally restricting portion and the plate portion.

4 The elevator door anti-fall device according to claim 1 or 2, wherein

a plurality of laterally restricting portions as set forth are provided side by side corresponding to a plurality of rollers provided for one elevator door.

5 An elevator door device comprising:

a plate portion provided along an inner wall of a shaft structure;

a rail provided along an inner surface of the plate portion;

a roller configured to roll on the rail;

5 an elevator door configured to open and close by being connected to the roller; and

the elevator door anti-fall device according to claim 1 or 2.