door and the vehicle body may be decreased. Accordingly, in a case where the door trailing edge-rubber receiver is not satisfactorily fixed to ~~the sliding door~~the vehicle body, the door trailing edge-rubber receiver may be hooked to the sliding door during sliding of the sliding door, and the door trailing edge-rubber receiver may fall off.

[0006]

The present invention provides a sealing member with a simple structure capable of ensuring sealability of a gap between a sliding door and a vehicle body, and a vehicle including the sealing member.

Solution to Problem

[0007]

According to a first aspect of the present invention, there is provided a sealing member for a sliding door disposed between a lateral surface of a vehicle body and a sliding door that is supported by the vehicle body in such a way as to be capable of being slid along the lateral surface between a closed position in which an opening of an entrance formed in the lateral surface is closed and an open position in which the opening is open, the sealing member including: a pressing plate extending in a vertical direction of the sliding door, and which is attached to one of the sliding door and the lateral surface; an attachment portion that is clamped and fixed between the

rubber 12 further includes a plate-shaped portion 23 which protrudes in the movement direction to become distant from the body portion 21 and the door trailing edge on an external surface side of the lateral sliding door 5, and gradually approaches the lateral surface of the vehicle body 2 as the plate-shaped portion 23 becomes distant from the door trailing edge. The door trailing edge rubber 12 further includes a facing portion 24 which protrudes from the body portion 21 to approach the lateral surface of the vehicle body 2 on an inner surface side of the lateral sliding door 5, and includes an end portion having a circular section perpendicular to the vertical direction on a lateral surface side of the vehicle body 2.

In the embodiment, the facing portion 24 extends in an inclined manner toward a door leading edge side as the facing portion 24 becomes distant from the body portion 21.

[0025]

Hereinafter, the sealing member 7 will be described.

As illustrated in Fig. 3, the sealing member 7 extends over the full length of the lateral sliding door 5 in the vertical direction, and is fixed to ~~the lateral sliding door 5~~the vehicle body 2 in such a way as to be interposed between the vehicle body 2 and the lateral sliding door 5 and to face the door trailing edge rubber 12 when the lateral sliding door 5 is positioned at the closed position.

[0026]

The sealing member 7 includes an attachment portion 16 that is fixed to ~~the lateral sliding door 5~~the vehicle body 2 by a pressing plate 31 attached to ~~the lateral sliding door 5~~the vehicle body 2, and a sealing portion 17 provided integrally with the attachment portion 16.

[0027]

The attachment portion 16 a hollow cylindrical member made of hard rubber which is formed to have a rectangular section, and extends in the vertical direction of the lateral sliding door 5. The attachment portion 16 may not be made of hard rubber but may be formed of an elastically deformable member, for example, the attachment portion 16 may be made of resin.

[0028]

The sealing portion 17 is provided integrally with the attachment portion 16 to extend in the vertical direction of the lateral sliding door 5. The sealing portion 17 is formed to have the sectional shape of a circle (a portion of a circle in the embodiment), and to have a hollow cylindrical shape which is made of a hard rubber material, similar to the attachment portion 16. An inner space of the sealing portion 17 communicates with an inner space of the attachment portion 16, and the sealing member 7 is formed of a single hollow member in its

interposed and accommodated between the lateral plates 41 in the thickness direction. When the lateral sliding door 5 is present at the closed position, the door trailing edge of the lateral sliding door 5 is interposed and accommodated therebetween in the thickness direction.

[0043]

The attachment portion 16 of the sealing member 7 is clamped and fixed to the each of the lateral plates 41 of the door pocket portion 40 by the pressing plate 31 in such a way that the sealing portion 17 protrudes to the lateral sliding door 5.

[0044]

Similar to the first embodiment, door trailing edge rubber (contact portion) 12A is provided at the door trailing edge of the lateral sliding door 5 in such a way as to cover the full length of the door trailing edge in the vertical direction of the lateral sliding door 5.

[0045]

The door trailing edge rubber 12A includes a body portion 21A provided to cover the end surface of the door trailing edge of the lateral sliding door 5, and a fitting portion 22A that protrudes from the body portion 21A to the door trailing edge in the movement direction, and is fitted into the recessed portion 5a of the lateral sliding door 5. The door trailing edge rubber 12A further includes

(2A). That is, the sealing member 7 may be formed into a simple hollow cylindrical shape so as not to clearly differentiate the sealing portion 17 from the attachment portion 16 before the sealing member 7 is attached to the vehicle body 2 (2A).

[0050]

The sealing portion 17 does not necessarily have a hollow cylindrical shape. Alternatively, a slit may be formed along the vertical direction, and a closed space may not be formed in the hollow portion. The sealing portion 17 may be formed into a solid columnar shape.

[0051]

The material of the attachment portion 16 may be different from that of the sealing portion 17.

[0052]

In the cases described in the embodiments, the sealing member 7 is provided on ~~the lateral sliding door 5~~the vehicle body 2(2A) of the vehicle 1 (1A); however, the sealing member 7 can be applied to other doors of the vehicle 1 (1A) such as a corridor connection door.

Industrial Applicability

[0053]

In the sealing member for a sliding door and the vehicle, it is possible to ensure sealability of the gap between the sliding door and the vehicle body by forming