

CLAIMS

1. A switch gear comprising:
 - a breaker body;
 - 5 a housing including an accommodation part in which the breaker body is detachably accommodated;
 - a first connector provided to the breaker body;
 - a second connector provided on an upper side of the accommodation part of the housing, and to be electrically connected to the first connector;
 - 10 and
 - an interlock device provided on an upper side of the accommodation part of the housing, and hindering a movement of the breaker body to the accommodation part when the first connector is not connected to the second connector,
 - 15 wherein the interlock device includes:
 - a bar-shaped interlock pin supported movably in an axial direction by its own weight; and
 - a control pin provided to the interlock pin, and capable of hindering a connection of the first connector and the second connector,
 - 20 wherein when the first connector is connected to the second connector, the control pin comes in contact with and stopped by an upper part of the first connector connected to the second connector, and the interlock pin is supported at a position at which the movement of the breaker body to the accommodation part can be carried out, and

wherein when the first connector is not connected to the second connector, the control pin is supported at a position facing a connection part of the second connector to which the first connector is connected, and the interlock pin is supported such that a lower end portion of the interlock pin
5 extends into the accommodation part.

2. The switch gear according to claim 1, further comprising:
an operation pin provided to the interlock pin, and extending in a vertical direction to an axis of the interlock pin;
10 a guide plate supporting the interlock pin slidably in the axial direction;
a frame body to which the guide plate is fixed; and
a protective frame attached to the frame body so as to cover the interlock pin,
15 wherein the protective frame is formed with a long hole to which the operation pin is inserted.

3. An interlock device configured to be provided to a switch gear including a breaker body, a housing including an accommodation part in
20 which the breaker body is detachably accommodated, a first connector provided to the breaker body, and a second connector provided on an upper side of the accommodation part of the housing and to be electrically connected to the first connector, wherein when the first connector is not

connected to the second connector, the interlock device hinders a movement of the breaker body to the accommodation part, comprising:

a bar-shaped interlock pin supported movably in an axial direction by its own weight; and

5 a control pin provided to the interlock pin, and capable of hindering a connection of the first connector and the second connector,

wherein when the first connector is connected to the second connector, the control pin comes in contact with and stopped by an upper part of the first connector connected to the second connector, and the interlock pin is
10 supported at a position at which the movement of the breaker body to the accommodation part can be carried out, and

wherein when the first connector is not connected to the second connector, the control pin is supported at a position facing a connection part of the second connector to which the first connector is connected, and the
15 interlock pin is supported such that a lower end portion of the interlock pin extends into the accommodation part.