

Claims

Claim 1

An electrical contactor comprising:

a pedestal portion having, at a lower end thereof, a contact portion that comes into contact with a first contact target of an object to be inspected;

a base end portion extending continuously toward an installing portion that comes into contact with a second contact target of a substrate electrically connected to an inspection device side; and

an arm portion having at least three or more arm members~~portions~~ provided between the base end portion and the pedestal portion, each of the at least three or more arm ~~members~~portions having one end supported by the base end portion and another end coupled to the pedestal portion to elastically support the contact portion,

wherein an amount of movement and pressure applied by the arm portion is adjusted by adjusting dimensions of individual ones of the at least three or more arm members, and

wherein a total electrical resistance value of the arm portion is adjusted by adjusting a total cross-sectional area of all of the at least three or more arm members,

such that the amount of movement and pressure may be more finely adjusted by adjusting the dimensions of the individual ones of the at least three or more arm members while maintaining or increasing an electrical resistance of the arm portion as a whole, in comparison with an arm portion have only one or two arm members.

~~Claim 2~~

~~The electrical contactor according to claim 1, wherein a resistance value of a whole of the at least three or more arm portions is adjusted by adjusting a total cross-sectional area of all the arm portions.~~

Claim 23

The electrical contactor according to claim 1 ~~or~~ 2, wherein part or all of the at least three or more arm members~~portions~~ each have a curved portion for decreasing an amount of movement of the contact portion with respect to the first contact target.

Claim 34

An electrical connecting apparatus comprising a plurality of electrical contactors that come into electrical contact with a first contact target and a second contact target, the electrical connecting apparatus electrically connecting the first contact target and the second contact target via each of the electrical contactors,

wherein each of the plurality of electrical contactors is the electrical contactor according to any ~~one of claims 1 to 3.~~