shutter is made up of a structure divided into two parts along a plane passing through the midline joining said pair of openings of access to the electrical contacts. The two parts of shutter are hooked one to the other, slide between each other and oscillate on an axis of fulcrum belonging to the same structure of the shutter, placed on a median plane orthogonal to the aforesaid plane passing through the midline of said pair of openings. With such an arrangement of parts it is not possible to keep the area between the two openings clear for the insertion of the earth pin of various standards of sockets.

The object of the invention is that of eliminating or at least reducing the disadvantages of the prior art.

In particular an object of the invention is that of providing a safety device for electrical sockets which is extremely reliable and of simple design.

Another object of the invention is that of providing such a safety device which is particularly suitable for multistandard sockets.

These and other objects are achieved by the safety device according to the invention which has the features of the annexed independent claim 1.

In accordance with an embodiment of the invention, safety device for electrical sockets is disclosed. The safety device is for electrical sockets, designed to be interposed between a body for containing the electrical contacts of the socket and a cover having at least one pair of openings for access to said phase and neutral electrical contacts of the socket, said safety system comprising shutter elements moveable between a position of occlusion of said pair of openings wherein they prevent the access to said electrical contacts and a position spaced apart from said pair of openings wherein they allow the insertion of the pins of an electrical plug therein, and elastic means which push said shutters in their occlusion position,
wherein said shutters are separated and unrestrained one in relation to the other, each one normally occluding a respective opening, said shutters being placed on a separate oscillating body able to oscillate around an axis X-X when a thrust force is exerted on only one of these shutters through one of said openings of the cover, assuming an inclined position wherein said shutters interfere with projections provided on an underlying support base of the oscillating body and on said cover, said projections avoiding any displacements of said

shutters from their position of occlusion of said openings, said axis of oscillation X-X of the oscillating body being placed centrally between said shutters and passing through the midline of an elongated opening provided in said oscillating body.

Advantageous embodiments of the invention are disclosed by the dependent claims.
Substantially, the safety device according to the invention comprises a support base, an oscillating body and a pair of shutters completely unrestrained one from the other, suitable for occluding the holes of access of the phase and neutral cells.

Both the support base and the oscillating body have a plurality of holes varyingly shaped according to the various standards of sockets.

More particularly, conveniently, a pair of symmetrical holes are provided, shaped in such a way as to accommodate the phase and neutral pins of different standards and a wide central window for the different earth pins.

The single shutters are placed in such a way as to leave completely clear the central

CLAIMS

1. Safety device ~~(30)~~ for electrical sockets ~~(1)~~, designed to be interposed between a body ~~(10)~~ for containing the electrical contacts of the socket and a cover ~~(20)~~ having at least one pair of openings ~~(21)~~ for access to said phase and neutral electrical contacts of the socket, said safety system ~~(30)~~ comprising shutter elements ~~(60)~~ moveable between a position of occlusion of said pair of openings ~~(21)~~ wherein they prevent the access to said electrical contacts and a position spaced apart from said pair of openings ~~(21)~~ wherein they allow the insertion of the pins of an electrical plug therein, and elastic means ~~(61)~~ which push said shutters ~~(60)~~ in their occlusion position,
wherein said shutters ~~(60)~~ are separated and unrestrained one in relation to the other, each one normally occluding a respective opening ~~(21)~~, said shutters ~~(60)~~ being placed on a separate oscillating body ~~(50)~~ able to oscillate around an axis X-X when a thrust force is exerted on only one of these shutters through one of said openings ~~(21)~~ of the cover ~~(20)~~, assuming an inclined position wherein said shutters interfere with projections ~~(46, 26)~~ provided on an underlying support base ~~(40)~~ of the oscillating body and on said cover ~~(20)~~, said projections avoiding any displacements of said shutters ~~(60)~~ from their position of occlusion of said openings ~~(21)~~, said axis of oscillation X-X of the oscillating body ~~(50)~~ being placed centrally between said shutters ~~(60)~~ and passing through the midline of an elongated opening ~~(52)~~ provided in said oscillating body ~~(50)~~.

2. Safety device according to claim 1, characterised in that a pair of openings ~~(51), (41)~~ are provided in the oscillating body ~~(50)~~ and in the underlying support base ~~(40)~~ respectively, aligned one with the other and with said openings ~~(21)~~ of the cover ~~(20)~~.

3. Safety device according to claim 2, characterised in that on said support base ~~(40)~~ a pair of projections ~~(46)~~ are provided adjacent to said pair of openings ~~(41)~~, aligned with corresponding holes ~~(56)~~ provided in the oscillating body ~~(50)~~, such that when

the oscillating body ~~(50)~~ is in an inclined position, one of said projections ~~(46)~~ penetrates a corresponding hole ~~(56)~~ and interferes with the corresponding shutter ~~(60)~~ avoiding the displacement thereof.

4. Safety device according to any one of the preceding claims, characterised in that a pair of projections ~~(26)~~ are provided inside said cover ~~(20)~~ adjacent to said openings

(21), designed to interfere with a respective shutter (60) preventing displacement thereof, when said oscillating body (50) is inclined in one direction or the other.

5. Safety device according to any one of the preceding claims, wherein said shutters (60) have a wedge body with an inclined upper wall turned towards said openings (21) of the cover (20).

6. Safety device according to any one of the preceding claims, wherein said shutters (60) have a respective stem (62) and said elastic means (61) are springs placed around said stems and acting between the corresponding shutter and a fixed abutment (54) provided with a hole (55) for the sliding of said stem (62).

7. Safety device according to any one of claims 2 to 6, characterised in that centrally to said support base (40) between said pair of openings (41), an elongated opening (42) is provided, aligned with said elongated opening (52) provided in the oscillating body (50) and with a corresponding elongated opening (22) provided in the cover (20), shaped in such a way as to be able to receive earth pins of plugs of different standards.

8. Electrical socket (1) provided with a safety device (30) according to any one of the preceding claims.

9. Electrical socket according to claim 8, designed to receive plugs of different standards.