placed at different levels in the on/off position.

Known axial control devices are however subject to improvements as regards the reliability, the economic nature, the simplicity of manufacture and the like.

Various embodiments seek to provide~~The object of the invention is in fact that of providing~~ such an electrical device with axial control which is reliable, economical, of simple manufacture and easy to assemble.

Various embodiments also seek to provide~~Another object of the invention is that of providing~~ such a device which requires a modest actuation force.

~~These objects are achieved by the device according to the invention which has the features of the annexed independent claim 1.~~According to an aspect, there is provided an electrical device with axial control, such as switch, double-pole switch, toggle switch, inverter or the like, comprising a box-like containment structure in insulating material, in which are housed: at least two connection terminals, at least one fixed electrical contact connected to one of the connection terminals, at least one rocker arm element carrying at least one mobile electrical contact and connected electrically to another of the connection terminals, an axial actuation member kinematically connected, by means of a first oscillating support, to said rocker arm element, so as to make it oscillate between two predetermined stable positions, characterised in that on said first oscillating support acts a second oscillating support which is made to oscillate in one direction or in the other at each actuation of said axial actuation member.

Advantageous embodiments~~ of the invention~~ are disclosed in the dependent claims.

Substantially the device with axial control according to the disclosure~~invention~~ comprises a box-like containment structure in insulating material in which are housed at least two connection terminals, at least one fixed electrical contact connected electrically to one of the two connection terminals, at least a rocker arm element carrying at least one mobile electrical contact and connected electrically to another connection terminal, and a pushbutton actuation member kinematically connected, by means of a first oscillating support, to said rocker arm element so as to make it oscillate between two predetermined stable positions, wherein on said first oscillating support acts a second oscillating support which is made to oscillate in one direction and in the other at each actuation of said pushbutton.

In one embodiment ~~of the present invention~~, there is provided the second oscillating support is pivoted to said first oscillating support and separated from said axial actuation member.

Further features ~~of the invention~~ will be made clearer by the following detailed description, referred to one of its embodiments purely by way of a non-limiting

CLAIMS

1. Electrical device with axial control, such as switch, double-pole switch, toggle switch, inverter or the like, comprising a box-like containment structure ~~(20)~~ in insulating material, in which are housed:

at least two connection terminals ~~(31, 32)~~,

at least one fixed electrical contact ~~(35)~~ connected to one ~~(31)~~ of the connection terminals,

at least one rocker arm element ~~(36)~~ carrying at least one mobile electrical contact ~~(37)~~ and connected electrically to another ~~(32)~~ of the connection terminals,

an axial actuation member ~~(70)~~ kinematically connected, by means of a first oscillating support ~~(50)~~, to said rocker arm element ~~(36)~~, so as to make it oscillate between two predetermined stable positions,

characterised in that on said first oscillating support ~~(50)~~ acts a second oscillating support ~~(60)~~ which is made to oscillate in one direction or in the other at each actuation of said axial actuation member ~~(70)~~.

2. Device according to claim 1, wherein said box-like containment structure ~~(20)~~ comprises a base body ~~(30)~~ housing said connection terminals ~~(31, 32)~~ accessible through respective holes ~~(33, 34)~~ and the corresponding fixed contact ~~(35)~~ and mobile contact ~~(37)~~, and a mechanism holder box ~~(40)~~ attached to the base body ~~(30)~~ and housing the components of the device.

3. Device according to claims 1 and 2, wherein said first oscillating support ~~(50)~~ is pivoted to said box ~~(40)~~ so as to be able to oscillate around an axis (X) between two positions inclined in opposite directions corresponding to the two stable positions of said rocker arm element ~~(36)~~, and said second oscillating support ~~(60)~~ is pivoted to the first oscillating support ~~(50)~~ so as to oscillate around an axis (X1) parallel to the axis (X), said second oscillating support ~~(60)~~ being normally held in horizontal position by said actuation member ~~(70)~~, at every pressure exerted on said actuation member ~~(70)~~, the second oscillating support ~~(60)~~ acting alternately on one of two opposite ends ~~(53)~~ of the first oscillating support ~~(50)~~ in order to cause the rotation thereof between the one and the other of said inclined positions.

4. Device according to any one of the preceding claims, characterised in that between said at least one rocker arm element ~~(36)~~ and said first oscillating support ~~(50)~~ is interposed a piston ~~(55)~~ movable together with the oscillating support ~~(50)~~ and held under pressure on the rocker arm element ~~(36)~~ by a spring means ~~(57)~~.

5. Device according to claim 4, wherein said piston ~~(55)~~ acts on said rocker arm element ~~(36)~~ by means of an articulated slide ~~(56)~~.

6. Device according to any one of claims 2 to 5, wherein said actuation member ~~(70)~~ is held hooked in said mechanism holder box ~~(40)~~ by pairs of co-operating teeth ~~(72, 73)~~ and is pushed upwards by spring means ~~(71)~~.

7. Device according to any one of the preceding claims, characterised in that two stems ~~(74)~~ are provided, protruding downwards from said actuation member ~~(70)~~, suitable for alternately acting on one or the other of two opposite ends of said second oscillating support ~~(60)~~.

8. Device according to any one of claims 2 to 7, characterised in that said first oscillating support ~~(50)~~ rests slidingly on a concave seat ~~(46)~~ provided on the bottom wall ~~(45)~~ of said mechanism holder box ~~(40)~~, and has two hollow uprights ~~(54)~~ traversing respective holes ~~(47)~~ formed in said bottom wall ~~(45)~~ of the box ~~(40)~~, each hollow upright ~~(54)~~ being able to house a respective piston ~~(55)~~ and relative spring ~~(57)~~.

9. Device according to claim 2, wherein said mechanism holder box ~~(40)~~ consists of two elements ~~(41, 42)~~ assembled together.

10. Device according to any one of the preceding claims, characterised in that on said actuation member ~~(70)~~ an interchangeable covering element ~~(80)~~ is slotted.

11. Device according to claim 1, wherein said second oscillating support ~~(60)~~ being pivoted to said first oscillating support ~~(50)~~ and separated from said axial actuation member ~~(70)~~.