

SOCKET SAFETY SYSTEM

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The invention relates to a socket safety system, intended for overheating protection of the power plug terminals and for increasing the force at the contact level, using a system consisting of two springs that ensure a firm contact.

The invention consists of a solution that is actuated by nitinol springs in response to the increase in temperature, leading to their compression, ensuring an increase in force, and therefore a firmly contact with the coupling terminals.

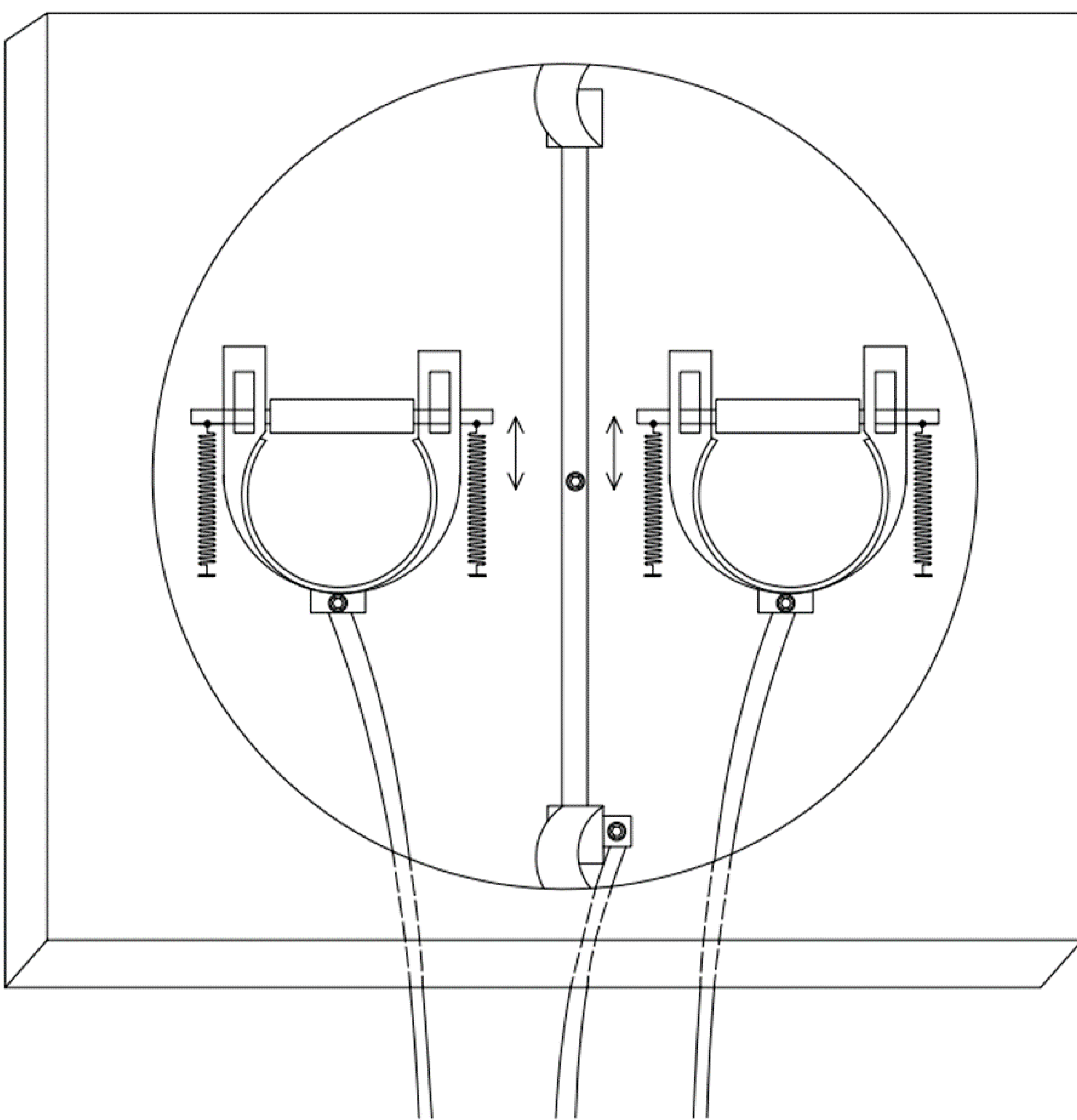


Figure 1. Socket safety system, top view.

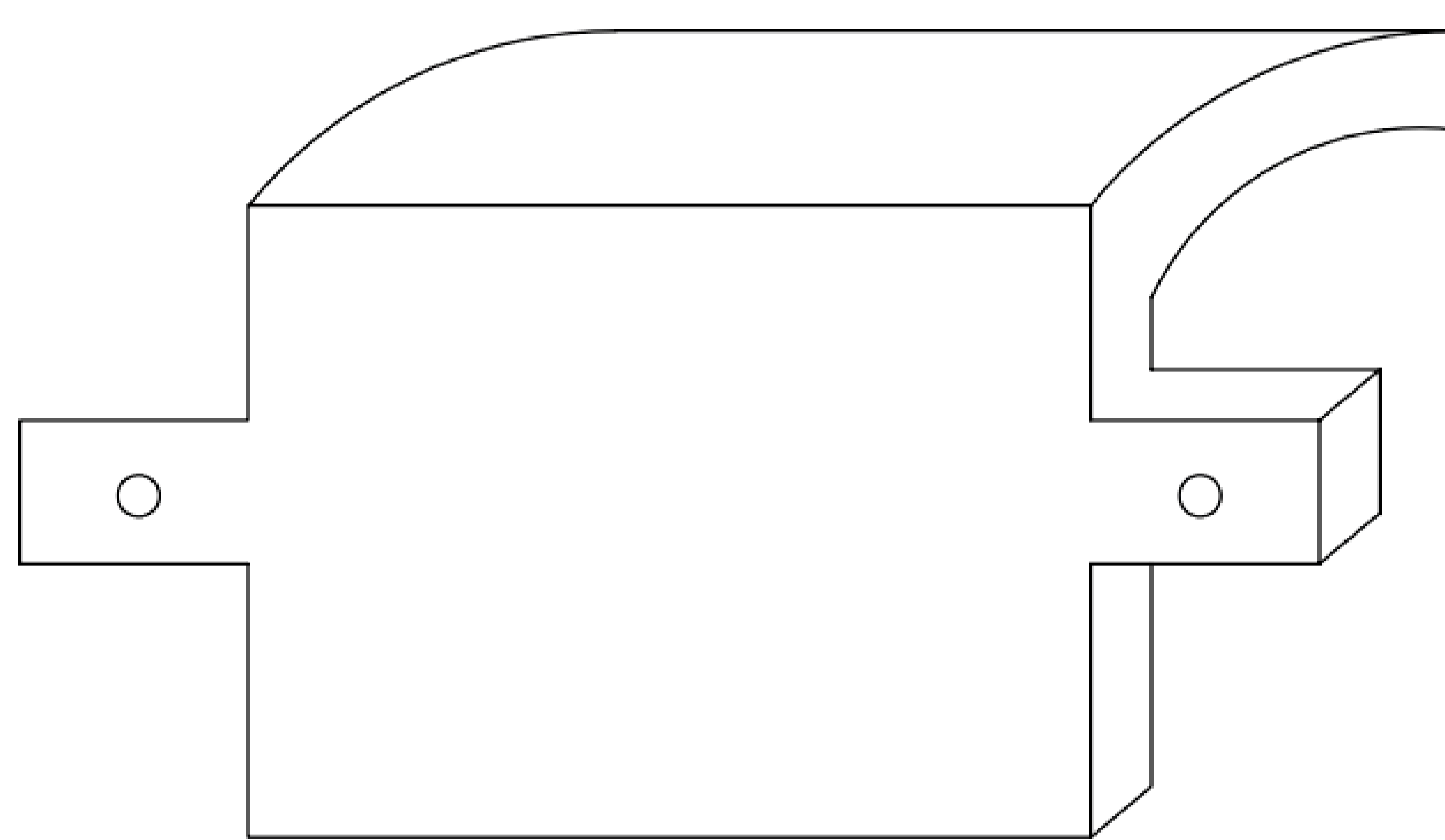


Figure 2. Constructive detail of the fixing part.



ADVANTAGES

- it assures the safety in operation, reducing the contact resistance between the consumer and the supply voltage;
- it allows the reduction of heating of the equipment due to the improvement of the contact when the intensity of the current at the coupling level increases;
- it implies reduced manufacturing costs.