BIOS-BATTERIE-EXTENDER

Problem

Inside computers is a BIOS battery. The BIOS battery ensures that when the computer is turned off, the BIOS configuration settings are not lost. Since the batteries lose charge over time, they must be replaced regularly. A state-of-the-art replacement of the battery includes the documentation of the BIOS data; disconnecting the external cable connections; the opening of the computer case; removing insertion cards that obstruct access to the battery; reassembly after battery replacement and checking BIOS configuration settings.

In the case of computer-aided production systems, the system must be taken out of production for a BIOS battery replacement. Often, a production plant is controlled by several computers in a network. The computers of such a system are often located in a "rack". The effort described above about a battery change would be multiplied by the number of computers in the rack. Two employees with technical knowledge are needed for the exchange.

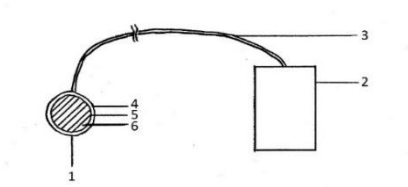
Solution

The BIOS BATTERY EXTENDER, which consists of a battery adapter, a battery holder and a cable for extension. The battery adapter is inserted into the BIOS battery holder of the motherboard. The battery holder is located outside the computer case.

Customer benefit

The BIOS battery can be easily replaced outside the case and does not require any further technical knowledge. The computer does not have to be switched off for this. The BIOS configuration settings are retained during the battery replacement. Production facilities do not have to be taken out of production.

Structure of the BIOS Battery Extender

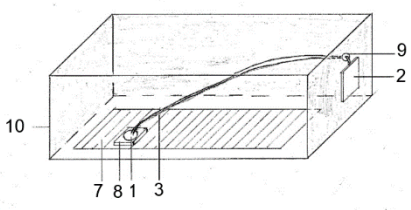


1. Battery-Adapter
2. Battery holder
3. Cable for extension
4. Plus pole
5. Insolator
6. Minus pole

Image Prototype

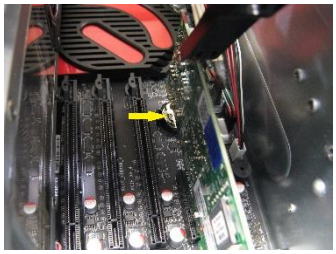
Image by Jens Spira

Computer with BIOS battery extender installed



1. Battery-Adapter
2. Battery holder
3. Cable for extension
7. Motherboard
8. Motherboard BIOS Battery Bracket
9. Casing Breakthrough
10. Computer Case

Before



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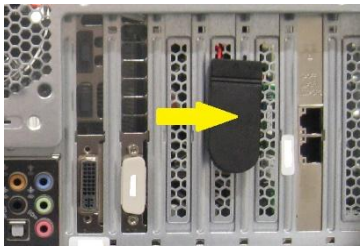
Afterwards



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Target groups
- Computer industry
- Home users
- IT-Companies
- Operators of mainframe systems/server systems
- Production company, Production computer-aided

Marktpotential
- There are about 20 million stationary computers in Germany

Patent
- DE-Patent: AZ: 10 2023 003 285.9

Offer
- Licensing for production
- Sale of the DE patent