

METAL-AIR ACCUMULATOR WITH AIR ELECTRODE PROTECTION DEVICE**Abstract**

The present invention relates to a rechargeable accumulator comprising one or more
5 metal-air cells, each cell comprising a first terminal (1) and a second terminal (2), a metallic
negative electrode (3) for metal-air cell, connected to the first terminal (1), a first positive
electrode (4) for releasing oxygen, a second positive electrode (5) which is a porous air
electrode containing at least one oxygen reducing catalyst, an electrolyte, control means (6)
10 suitable for continuously comparing the voltage measured between the terminal (2) and the
terminal (1) with a setpoint value and for dispatching a switching signal to the switching
means (7) when the measured voltage becomes smaller than the setpoint value, switching
means (7) suitable for receiving a switching signal originating from the control means (6) and
for connecting and disconnecting the air electrode (5) of the second terminal (2). The present
invention also relates to a method using such an accumulator.

15 (Figure 1)