CLAIMS

1. A method (300; 400) for the extraction of lithium from an assembly (200) of at least one cell (100) of an electric battery comprising solid metallic lithium, such as a Lithium-Metal-Polymer battery, said method (300, 400) comprising an extraction phase (306) comprising the following steps:

- positioning (308) said assembly (200) in an orientation in which a first edge (110) of said assembly (200) from which extend(s) one or more negative electrode or electrodes (102) is located below a second edge (112) of said assembly (200), opposite (112) said first edge (110), and
from which extend(s) one or more positive electrode(s) (104); and

- heating (310) said assembly to a temperature, called treatment temperature, greater than or equal to the melting temperature of said solid metallic lithium.

2. The method (300; 400) according to the preceding claim, characterized in that the positioning step (308) carries out a vertical positioning of the assembly (200) of cell(s), in which the first edge (110) is located downwards.

3. The method (300; 400) according to any one of the preceding claims, characterized in that the step (310) of heating the assembly (200) of cell(s) is carried out under inert gas.

4. The method (300; 400) according to any one of claims 1 or 2, characterized in that the step (310) of heating the assembly (200) of cell(s) is carried out under vacuum.

5. The method (400) according to any one of the preceding claims, characterized in that it also comprises, before the extraction phase (306), a step (402) of electrical charging of the assembly (200) of cell(s), said extraction phase (306) being applied to said charged assembly (200).

6. The method (300; 400) according to any one of the preceding claims, characterized in that the extraction phase (306) also comprises a step (312) of compression of the assembly (200) of cell(s).

7. The method (300; 400) according to the preceding claim, characterized in that the compression step (312) applies a compression to the surface of the assembly (200) by sweeping the surface of the assembly (200) from the second edge (112) to the first edge (110).

8. The method (300; 400) according to any one of the preceding claims, characterized in that it comprises, before the extraction phase (306), a step (302) of removal of at least one electrical connector from at least one cell (100).

9. An installation (500) for the extraction of lithium from an assembly (200) of at least one cell (100) of an electric battery comprising solid metallic lithium, such as a Lithium-Metal-Polymer battery, said installation (500) comprising:

- a means (504) for positioning said assembly in an orientation in which a first edge (110) of said assembly (200) from which extend(s) one or more negative electrode or electrodes (102) is located below a second edge (112) of said assembly, opposite said first edge (110), and from which extend(s) one or more positive electrode or electrodes (104); and
- means (502) for heating said assembly (200) to a treatment temperature greater than or equal to the melting temperature of said solid metallic lithium.

10. The installation (500) according to the preceding claim, characterized in that the heating means comprises an oven (502) filled with inert gas.

11. The installation (500) according to any one of claims 9 or 10, characterized in that it comprises a compression means (508) of the assembly (200) of cell(s).

12. Installation (500) according to the preceding claim, characterized in that the compression means comprises two rollers (508) between which the assembly of cell(s) is passed.