

ABSTRACT:

Flat battery element including an electrochemical cell under pressure, assembly of such battery elements, and thin card including such a flat battery element

The invention relates to a flat battery element (1) comprising an electrochemical elementary cell (100) having plane electrodes (16, 18) provided with contact zones (26, 28) and an electrolyte under pressure in an envelope (40) which has plane walls (40A, 40B) and peripheral impervious closure zones (41, 42) with impervious passages for
5 said contact zones (26, 28). This battery element also comprises input/output contact means applied on metallic strips (36, 38) which are connected to the contact zones (26, 28) of the electrodes (16, 18) in an impervious closure zone (42A) of the envelope (40). In one embodiment, these strips are bent with their extremities directed towards the centers of the plane walls (40A, 40B) outside the envelope and are pressed against these walls by external
10 pressure means (50, 52; 80, 82) for maintaining the electrolyte under a pressure, which means constitute said input/output contact means.

The invention also relates to an assembly of elements and to a thin card (2) including such a battery element.

15 Application: Batteries for wireless apparatuses

Reference: Fig. 7E