

FLEXIBLE ELECTROCHEMICAL CELL WITH CONTROLLED OPTICAL
ABSORPTION AND REFLECTION HAVING AN AQUEOUS ELECTROLYTE

The invention concerns an electrochemical cell in thin films and aqueous electrolyte, with an emissivity that varies as a function of an applied control voltage. It is formed of the following flexible elements, superimposed and respectively in intimate contact:

- a first current collector (11) in electrically conducting material and intended to be connected to a first potential of the control voltage,
- a porous counter electrode (12) formed of a mixture of PVDF-HFP, PEO and a powder of a compound comprising complementary ions of an insertion material,
- a porous separator (13) formed of a mixture of PVDF-HFP and PEO,
- a second current collector (14) in electrically conducting material, intended to be connected to a second potential of the control voltage and capable of being traversed by ions,
- a porous electronic conduction layer (15) formed of a mixture of PVDF-HFP, PEO and a powder of an electrically conducting material,
- a porous active layer (16) formed of a mixture of PVDF-HFP, PEO and a powder of an insertion material.

Figure 3.