

**TITLE OF INVENTION: METHOD FOR PREPARING A SINGLE-DOMAIN
THIN LAYER MADE OF LITHIUM-CONTAINING FERROELECTRIC
MATERIAL**

5

Abstract

The invention relates to a method for preparing a single-domain thin layer (4) made of lithium-containing ferroelectric material. The method comprises providing a first single-domain layer (8) made of lithium-containing ferroelectric material, said layer being bonded to a carrier (2), the first layer (8) having a lithium-rich surface thickness (11). The preparation method comprises a first step of wet cleaning of the free side (9) of the first layer (8), the cleaning step being able to remove the lithium-rich surface layer. It then comprises a second step of preparation that aims to remove or prevent the appearance of lithium-rich and hydrogen-rich dendrites (12) liable to nucleate on the free side (9) of the first layer (8) when it is devoid of the lithium-rich surface layer.

Figure 2