

Abstract

A method for the local phase transformation and structuring of thin films of superconducting materials, said method comprising the steps of:

5 depositing a thin film (1) of a superconducting material in a ceramic or insulating phase on a carrier substrate (2) in a deposition system (3),

inputting heat locally into the thin film (1), wherein regions of the thin film (1) are heated and undergo a phase transformation into a superconducting phase (8), so that regions of the superconducting phase (8) form structures embedded in the insulating phase.

10 (Fig. 1)