ABSTRACT

PROCESS FOR CUTTING OUT A BLOCK OF MATERIAL AND FORMATION OF A THIN FILM

A process for cutting out a block of material (10) comprising the following stages:

(a) the formation in the block of a buried zone (12), embrittled by at least one stage of ion introduction, the buried zone defining at least one superficial part (14) of the block,

(b) the formation at the level of the embrittled zone of at least one separation initiator (30, 36) by the use of a first means of separation chosen from amongst the insertion of a tool, the injection of a fluid, a thermal treatment and/or implantation of ions of an ionic nature different from that introduced during the preceding stage, and

(c) the separation at the level of the embrittled zone of the superficial part (14) of the block from a remaining part (16), called the mass part, from the separation initiator (30, 36) by the use of a second means, different from the first means of separation and chosen from among a thermal treatment and/or the application of mechanical forces acting between the superficial part and the embrittled zone.

Application for the manufacture of components for micro-electronics, opto-electronics or micro-mechanics.

Figures. 2A, 2B, 2C



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