

ABSTRACT

METHOD FOR PRODUCING A LAYER

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The invention relates to a method for producing a layer of composition $AA'BO_3$, where A consists of at least one element selected from: Li, Na, K, Ca, Mg, Ba, Sr, Pb, La, Bi, Y, Dy, Gd, Tb, Ce, Pr, Nd, Sm, Eu, Ho, Zr, Sc, Ag, Tl and B consists of at least one element selected from: Nb, Ta, Sb, Ti, Zr, Sn, Ru, Fe, V, Sc, C, Ga, Al, Si, Mn, Zr, Tl, characterised in that it comprises:

- 10 - providing a donor substrate (100) of composition ABO_3 ,
- 15 - forming a layer (10) of composition ABO_3 by thinning said donor substrate (100),
- before and/or after the thinning step, exposing said layer (10) of composition ABO_3 to a medium (M) containing ions of an element A' belonging to the same
- 20 list of elements as A, A' being different from A, such that said ions penetrate into said layer (10) to form a layer of composition $AA'BO_3$.

Figure 1D