RELAXATION OF LAYERS

Abstract

The invention proposes a method of forming a layer of elastically unstrained crystalline material intended for electronics, optics, or optronics applications, characterized in that the method is carried out using a structure comprising a first crystalline layer which is elastically strained under tension (or respectively in compression) and a second crystalline layer which is elastically strained in compression (or respectively under tension), the second layer being adjacent to the first layer, in that the method comprises a step of diffusion between the two layers so that the differences between the respective compositions of the two layers is progressively reduced until they are substantially the same, the two layers then forming just a single final layer of crystalline material having a composition which, in aggregate, is uniform, and in that the respective compositions, thicknesses, and degrees of strain of the two layers are initially selected so that, after diffusion, the material then constituting the final layer no longer, in aggregate, exhibits elastic strain.

Figure 1A