

GROWTH SUBSTRATE FOR FORMING OPTOELECTRONIC DEVICES, METHOD
FOR MANUFACTURING SUCH A SUBSTRATE, AND USE OF THE SUBSTRATE,
IN PARTICULAR IN THE FIELD OF MICRO-DISPLAY SCREENS

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ABSTRACT

The invention relates to a growth substrate (1) for forming optoelectronic devices comprising a growth medium (2) and, arranged on the growth medium (2), a first group of crystalline semiconductor islands (3a) having a first lattice parameter and a second group of crystalline semiconductor islands (3b) having a second lattice parameter that is different from the first. The invention also relates to a method for manufacturing the growth substrate, a method for the collective manufacture of a plurality of optoelectronic devices on the growth substrate. It applies to providing a monolithic micro-panel or light-emitting diodes or a micro-display screen.

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Figure 1a