

**COMPOSITE STRUCTURE COMPRISING A SINGLE-CRYSTALLINE THIN
FILM ON A POLY-CRYSTALLINE SILICON CARBIDE SUPPORT
SUBSTRATE AND ASSOCIATED MANUFACTURING METHOD**

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Abstract

A composite structure for manufacturing microelectronic components comprising a single-crystalline thin film, arranged on a support substrate made of polycrystalline silicon carbide, said support substrate having, on each of its
10 faces, a preferential crystalline orientation according to which:

- a texture coefficient C_{422} is less than 40%, and
- the sum of texture coefficients $C_{220}+C_{200}+C_{400}$ is greater than 50%, preferably greater than 80%.

The invention also relates to a method for manufacturing such a composite
15 structure.

Figure for the abstract: No figure