Title (en)
METHOD FOR PRODUCING A NATIVE EMISSION MATRIX

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER NATIVEN EMISSIONSMATRIX

Title (fr)
PROCEDE POUR FABRIQUER UNE MATRICE A EMISSION NATIVE

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Abstract (en)
[origin: WO2022263756A1] The invention relates to a method for producing a native emission matrix, which comprises the following steps: a) providing a base structure (10) comprising, successively, a substrate (11), a GaN layer (12), a doped In(x)GaN layer (13) where x is from 0 to 8%, and an unintentionally doped In(x)GaN epitaxial regrowth layer (14); b) structuring mesas in the base structure, the mesas comprising a portion of the doped In(x)GaN layer (13) and the unintentionally doped In(x)GaN epitaxial regrowth layer (14), whereby the mesas are electrically interconnected; c) electrochemically forming pores in the doped In(x)GaN layer (13); and d) creating a first LED structure (100) and a second LED structure (200) on the mesas, whereby a first LED and a second LED having first and second emission wavelengths, respectively, are obtained, and a native emission matrix is formed.

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