

Abstract

Device and method for the division of materials

A method and a device for the division of materials, in particular of single crystals, in particular by inner hole cutting is provided, with a cutting disk (2) having a concentric hole whose edge (3) forms a cutting edge and wherein the cutting disk (2) is rotatable about its central axis in order to cut the single crystal (1), a positioning device for positioning the single crystal (1) to be cut relative to the cutting disk in such a way that the cutting disk moves in rotating manner through the single crystal in order to separate off a part (1a) of the single crystal (1), and a device for the supply of coolant-lubricant onto the cutting disk (2), wherein the device (10) for the supply of coolant-lubricant is arranged in such a way that viewed in the direction of rotation it supplies the coolant-lubricant on the exit side behind the passage of the cutting disk (2) through the single crystal (1), and a device for the supply of compressed air (12).

(Fig. 2)



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