Title (en)
DEVICE AND METHOD FOR SEPARATING MATERIALS

Title (de)
VORRICHTUNG UND VERFAHREN ZUM TRENNEN VON WERKSTOFFEN

Title (fr)
DISPOSITIF ET PROCEDE POUR SECTIONNER DES MATERIAUX

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Abstract (en)
[origin: WO0238349A1] The invention relates to a device and to a method for separating materials, especially monocrystals, especially by annular sawing. Said device comprises a cutting disk (2) with a concentric hole whose edge (3) forms a cutting edge. Said cutting disk (2) is rotated about its center axis for cutting the monocrystal (1). The device also comprises a positioning device for positioning the monocrystal (1) to be cut in such a manner with respect to the cutting disk that the cutting disk, during cutting, moves through the monocrystal, thereby cutting off a part (1a) from the monocrystal (1). The device is further provided with a means for feeding a coolant/lubricant to the cutting disk (2). Said means (10) for feeding a coolant/lubricant is mounted in such a manner that it returns the coolant/lubricant on the outlet side downstream of the point of passage of the cutting disk (2) through the monocrystal (1), when seen in the direction of rotation. The device further comprises a device for feeding pressurized air (12).

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