

Title (en)

METHOD FOR FRAGMENTING A ROD-LIKE MATERIAL, IN PARTICULAR MADE OF POLYCRYSTALLINE SILICON

Title (de)

VERFAHREN ZUM FRAGMENTIEREN EINES STANGENARTIGEN MATERIALS, INSBESONDERE AUS POLYKRISTALLINEM SILIZIUM

Title (fr)

PROCÉDÉ POUR FRAGMENTER UN MATÉRIAU EN FORME DE BARRE, EN PARTICULIER EN SILICIUM POLYCRISTALLIN

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Application

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Priority

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Abstract (en)

[origin: WO2015143572A1] The invention relates to a method for fragmenting a rod-like semiconductor material (1), comprising the steps: a) providing a section (3) of the rod-like material (1) that is surrounded by a process fluid (2); b) arranging an electrode arrangement (4) comprising two electrodes (5, 6) in the region of this section (3) in such a way that the electrodes (5, 6) are immersed in the process fluid (2) and are at a distance from one another and are each at a distance from the rod-like material (1), c) generating high-voltage breakdowns through the rod-like material (1) and/or along the surface of the rod-like material (1) in the region of the electrodes (5, 6) by applying high-voltage pulses to the electrode arrangement (4), wherein, during the generation of the high-voltage breakdowns, a relative movement in the longitudinal direction of the rod-like material (1) is generated between the electrode arrangement (4) and the rod-like material (1). By virtue of the method according to the invention, it is possible to comminute rod-like semiconductor material into a fraction of relatively uniform size and shape with a low energy expenditure, and to maintain a low contamination with foreign material.

IPC 8 full level

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