

Title (en)
CLASSIFICATION OF POLYCRYSTALLINE SILICON

Title (de)
KLASSIEREN VON POLYKRISTALLINEM SILICIUM

Title (fr)
CLASSIFICATION DE SILICIUM POLYCRISTALLIN

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Application
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Abstract (en)
[origin: CA2923110A1] A method for mechanically classifying crushed or granulated polycrystalline silicon with an oscillating screening machine, wherein crushed or granulated silicon is located on one or more screens each comprising a screen lining and made to oscillate in such a way that the crushed silicon or granulated silicon is set in motion, whereby the crushed silicon or granulated silicon is separated into different size classes, wherein a screen index, which is defined as the ratio of the acceleration produced by the oscillating motion to the gravitational acceleration vertically in relation to the plane of the screen and is characterized by the formula $K_v = r \cdot \omega^2 \cdot \sin(\alpha + \beta) / (g \cdot \cos(\beta))$, where r: is the oscillation amplitude; ω : is the angular velocity; α is the throwing angle; β : is the angle of inclination of the screen; and g: is the gravitational constant, is greater than or equal to 0.6 and less than or equal to 90°

IPC 8 full level
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