

Title (en)
SYSTEM AND METHOD FOR AN ELECTRODYNAMIC FRAGMENTATION

Title (de)
ANLAGE UND VERFAHREN ZUR ELEKTRODYNAMISCHEN FRAGMENTIERUNG

Title (fr)
INSTALLATION ET PROCÉDÉ DE FRAGMENTATION ÉLECTRODYNAMIQUE

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Application
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Abstract (en)
[origin: WO2019207108A1] The invention relates to a fragmentation system (1) for an electrodynamic fragmentation of material (5), comprising a feed (3) and an outlet (4) for transporting material along a transport path (8) in a transport direction (9), comprising at least one high-voltage pulse source (11), wherein each of the high-voltage pulse sources (11) has at least one first electrode (10a) and at least one second electrode (10b) for generating a high-voltage discharge (19) in a discharge chamber, and the transport path (8) has a fractionation section (18), said fractionation section (18) running through the discharge chamber. The fragmentation system also comprises a selection means for a selective discharge of the material (5) on the transport path in order to extract material (5) and/or fragments of the material with a diameter which is smaller than a minimum diameter at at least one part of one of the fractionation sections (18). In a method for an electrodynamic fragmentation of material (5), material (5) is transported from an inlet (3) to an outlet (4) along a transport path (9). The transport path (8) has a fractionation section (18), at least one high-voltage pulse source (11) has at least one first electrode (10a) and at least one second electrode (10b), and the high-voltage pulse source (11) generate a high-voltage discharge in a discharge chamber, said discharge chamber being arranged between the first electrode (10a) and the second electrode (10b). Material (5) and/or fragments of the material with a diameter which is smaller than a minimum diameter is extracted at at least one part of one of the fractionation sections (18).

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