

ABSTRACT

5 A fragmentation system 1 for the 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 comprises at least one first electrode 10a and at least one second electrode 10b for generating a high-voltage discharge 19 in a discharge chamber, wherein the transport path 8 has a fractionation section 18, wherein the fractionation section 18 extends through the discharge chamber, comprising a selection
10 means for selectively extracting the material 5 on the transport path in order to channel material 5 and/or fragments of the material having a diameter smaller than a minimum diameter past at least one portion of one of the fractionation sections 18.

15 In a method for the electrodynamic fragmentation of material (5), material (5) is transported from an inlet (3) toward an outlet (4) along a transport path (9), wherein the transport path (8) has a fractionation section (18), wherein at least one high-voltage pulse source (11) has at least one first electrode (10a) and at least one second electrode (10b), wherein the high-voltage pulse source (11) generates a high-voltage discharge in a discharge chamber, wherein the discharge chamber is arranged between the first
20 electrode (10a) and the second electrode (10b), wherein material (5) and/or fragments of the material having a diameter smaller than a minimum diameter are/is channeled past at least one portion of one of the fractionation sections (18).

Figure 1