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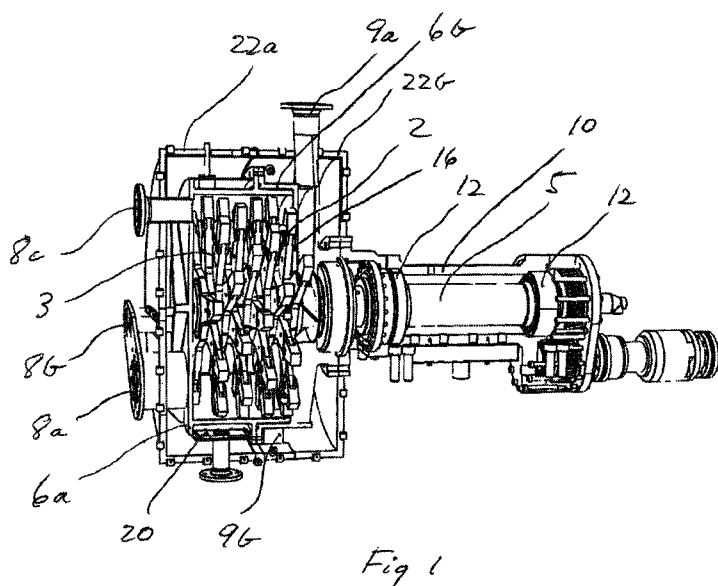
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(54) Title: REACTOR, METHOD OF DECREASING THE AMOUNT OF SOLID PARTICLES IN A GAS STREAM FROM A REACTOR AND USE OF THE REACTOR



(57) Abstract: The present invention concerns a reactor (1) for the separation of material included in composite raw material and comprising at least one reaction chamber (2) and at least one rotor (3), said reaction chamber (2) comprising at least one housing (6, 6a, 6b) which is sealed in relation to the surroundings and has at least one inlet opening (8a, 8b, 8c) and at least one outlet opening (9a, 9b) and said rotor (3) comprising at least one shaft (5), and at least a first part of said rotor (3) being situated in said housing (6, 6a, 6b) and said shaft (5) extending from said first part through and out of said housing (6, 6a, 6b), said first part of said rotor (3) comprising at least one fan blade (29) positioned directly or indirectly on said shaft (5) and situated near an outlet opening (9a) for gas of said at least one outlet opening (9a, 9b) in said reaction chamber (2), said outlet opening (9a) for gas being situated near at least one shaft seal (24), positioned directly or indirectly on said shaft (5), between said reaction chamber (2) and the surroundings, said fan blade (29) being situated between said shaft seal (24) and the cent-

ral part of the reactor (1), said fan blade (29) being situated in an inlet (30), which is especially designed for the purpose and located in said reaction chamber (2), into said outlet opening (9a) for gas, said shaft (5) extending in only one direction from said first part through and out of said housing (6, 6a, 6b), and said fan blade (29) being situated at an axial distance from said hammer (4) on said first part of said rotor (3). The present invention also concerns a method of decreasing the amount of solid particles accompanying a gas stream from a reactor (1), and use of the reactor (1).