



(81) 指定国(表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

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chip-like materials that have higher weights. Provided is a pneumatic separation apparatus (1) for a polycrystalline silicon pulverization mixture containing chunk-like material and smaller-grain-diameter material in the form of chip-like material and powder-like material having a smaller grain diameter than the chunk-like material, the pneumatic separation apparatus (1) being characterized by comprising a first pneumatic separation tube section (2), which is a vertically erected tube body, for separating the chunk-like material and the smaller-grain-diameter material from each other; in an axial-direction intermediate region of the tube body, an input port (3) for the polycrystalline silicon pulverization mixture is formed. The pneumatic separation apparatus (1) is also characterized in that, to a top end of the first pneumatic separation tube section (2), a communication pipe line (9) for the smaller-grain-diameter material is connected, the communication pipe line (9) being provided with a suction means on the upstream side thereof; the suction means applies a suction force such that the chunk-like material in the polycrystalline silicon pulverization mixture charged into the tube body falls downward while the smaller-grain-diameter material is sucked upward.

(57) 要約: 表面金属汚染の抑制に優れる、多結晶シリコン破砕物の風力分級装置において、その選別作用をより高め、上記高重量のチャンク状物やチップ状物に対してまで、高度に分級可能なものを開発すること。垂直に立設された管体であって、該管体の軸方向中間領域には、チャンク状物、及びそれよりも小粒径物、具体的にはチップ状物や粉状物を含む多結晶シリコン破砕混合物の投入口(3)が形成される、チャンク状物と小粒径物との第1風力選別管部(2)を備えてなり、係る第1風力選別管部(2)の上端には、該管体内に投入された多結晶シリコン破砕混合物中のチャンク状物は下方に落下し、他方で、小粒径物は上方に吸上する吸引力を負荷させる吸引手段が上流に設けられた、該小粒径物の流通管路(9)が接続されてなる、ことを特徴とする多結晶シリコン破砕混合物の風力選別装置(1)。