

ABSTRACT

JET MILL

The invention provides a jet mill which comprises a hollow disk-shaped turning and crushing chamber; a plurality ("m") of crushing nozzles, to form turning flows by jetting a high pressure gas, in which the jetting ports are inclined to the peripheral wall side and disposed at the side wall of the turning and crushing chamber; a plurality ("n") of venturi nozzles, disposed at the side wall of the turning and crushing chamber, which leads materials to be crushed, in line with the high pressure gas; a solid and gas blending chamber which is formed at the upstream side of the venturi nozzles; a crushed material supplying portion communicating with the solid and gas blending chamber; a press-in nozzle disposed in the solid and gas blending chamber coaxially with the venturi nozzles; and an outlet, disposed at the upper part of the middle portion of the turning and crushing chamber, through which micro powder is discharged; wherein the dependency of materials to be crushed for collision with the wall surface in a turning and crushing chamber is lowered in order to prevent the wall surface from being worn, the dependency on collision among the materials to be crushed is increased, the pressure fitting of micro powder is remarkably reduced, the stay duration of the materials in the turning and crushing chamber is shortened, the crushing treatment capacity is remarkably improved, and a long-time continuous operation is enabled.

Figure 1