

Pipeline beads mill

ABSTRACT OF THE DISCLOSURE

A pipeline beads mill having a structure such that secondary agglomerates are not deposited in a pipeline for transferring a slurry and a preliminary dispersion can be made during the transfer of slurry. The main body of this apparatus has a material-feeding port at one side and a material-discharging port at another side, and the material-feeding port and the material-discharging port are connected to pipes in which a material to be treated flows, respectively. Between the material-feeding port and the material-discharging port, a dispersion chamber is formed. In this dispersion chamber, a treatment gap which contains dispersion media is formed by an outer stator and an inner stator. A rotor is inserted in the treatment gap, and by this rotor, the dispersion media are circulated to the inner and outer faces of the rotor. On the inner stator located at the inner side of the rotor, a flow-out port is formed, and a screen is formed so as to prevent the dispersion media from flowing out. The material to be treated enters the dispersion chamber from the material-feeding port, and preliminarily dispersed in the dispersion chamber, and then flows in a pipeline through the material-discharging port.

Fig. 1