

MIXING DEVICE AND SLURRYING DEVICE

ABSTRACT

A mixing device uses a cyclone-type hollow-cylindrical body (10) of which diameter is reduced from its upper opening to lower opening. A liquid is dropped while being whirled in the hollow-cylindrical body (10) to accelerate it and produce swirls. Powder is charged in the center of the swirls so that it is enwrapped by the swirls and mixed with the swirls of the liquid. The hollow-cylindrical body does not clog because the powder does not come in contact with the inner wall of the hollow-cylindrical body. Further, the pressure near the center of the swirls becomes negative, so that the powder is sucked into the swirls and powder dust is less likely to be produced. The mixing device is compact and capable of slurring powder with less maintenance expense.

Figure 4