

PARTICLE SUPPLY VALVE FOR USE IN BLASTING APPARATUS

ABSTRACT

A leakproof particle supply valve for use in a blasting apparatus is provided, which uses a piston and a biasing means instead of rubber partition walls in order to avoid structurally the deterioration of elasticity characteristics, thereby preventing leakage of compressed air and particles.

The particle supply valve is characterized in that the valve is comprised of a valve main body having an inside space; a partition wall for separating the inside space of the valve main body into a first chamber and a second chamber; a particle inlet port and a particle outlet port both provided in the first chamber; a control air inlet/outlet port provided in the second chamber; a sliding member which passes through the partition wall in a slidable manner, the sliding member having a first end portion positioned in the first chamber and a second end portion positioned in the second chamber; a closure member fixed to the first end portion of the sliding member in the first chamber; a piston fixed to the sliding member in the second chamber; and a biasing means for pushing the second end portion of the sliding member in the second chamber.

Fig. 1

This Sheet Has Been Replaced
