

BAG HOUSE CLEANING SYSTEMS

ABSTRACT

A reverse pulse cleaning system for use in a bag house filter including a blow tube (2) having outlet holes (3) to direct high velocity air pulses into filter bags to be cleaned. The system includes a nozzle (1) which may be an assemblage of parts, which has a control formation at or in between an inlet or outlet of the nozzle. The control formation determines the characteristics such as velocity and direction of the flow emergent from the outlet holes (3) and can improve uniformity and effectiveness of filter bag cleaning. A clampable and releasable fixing of the nozzle (1) to the blow tube allows replacement of the control formation with one of different characteristics during manufacturing or insitu fine tuning. The fixing allows precise alignment of nozzles (1) on assembly which reduces the need for costly precision in forming the blow tube outlet holes (3). The system may include a tube (9) forming part of the nozzle with adjustable radial holes (13) to induce secondary air into the cleaning flow and may include a venturi (10) to induce tertiary air.

Fig. 1