

PROCESSES FOR REMOVING ENTRAINED PARTICULATES FROM A GAS

ABSTRACT

In a process for removing entrained particulates from a gas, a chemical reaction may be conducted in a vessel. Conducting the chemical reaction may include suspending particulates in a gas in a fluidized bed in the vessel. A portion of the gas and entrained particulates may be directed to a filter medium and the entrained particulates may be filtered from the gas. Filtering the entrained particulates may include directing the gas from a feed side of the filter medium through the filter medium to a filtrate side of the filter medium and may also include directing at least a portion of the entrained particulates generally tangentially along the feed side of the filter medium to scour the feed side of the filter medium. The particulates may then be directed from the feed side of the filter medium into a dip leg.

Figure 1