

A FLOW CONTROL METHOD AND APPARATUS

ABSTRACT

The disclosure relates to air pollution control, and specifically to an apparatus for redirecting fluid flow in a plenum to improve flow performance and, therefore, improved air pollution control, especially in selective catalytic NO_x reduction. The apparatus employs an array of flat blades mounted at an angle with respect to the inlet (upstream) fluid flow, such that the blades are titled with respect to that flow and correspondingly redirect the flow in a desired direction. The apparatus, which can also be referred to as a 'GSG' or 'graduated straightening grid,' has a range of applications, and offers a number of performance, structural, and economic advantages in large-scale applications.

[Fig. 1]