Title (en)

REVERSE PULSE CLEANING ENHANCEMENT FOR CARTRIDGE FILTER AIR FILTRATION SYSTEM

Title (de)

REINIGUNG MIT UMGEKEHRTEN PULSIERUNGEN FÜR PATRONENFILTER-LUFTFILTERSYSTEM

Title (fr)

AMELIORATION DU NETTOYAGE A FLUX PULSE INVERSE DANS UN SYSTEME DE FILTRATION D'AIR DANS UN FILTRE A CARTOUCHE

Publication

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Application

EP 98908510 A 19980206

Priority

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- US 79943097 A 19970212

Abstract (en)

[origin: WO9834713A1] The present invention provides a filter apparatus for use in air pollution control which includes at least one hollow filter cartridge disposed within a housing cabinet. Contaminated air is introduced into the housing cabinet through an inlet and is caused to flow into an exhaust chamber adjacent the housing cabinet after passing through the filter cartridges in the housing cabinet to remove airborne particulates. Compressed air injectors are also provided for selectively directing a reverse pulse of air into the openings of the filter cartridges from the exhaust chamber side thereof so that the reverse air pulse enters the filter cartridges and flows through the filter medium in the reverse direction of that of the contamined air flow to thereby remove accumulated contaminates from the filter medium. In order to improve periodic cleaning of the filters, elongated deflecting inserts are disposed within the filter cartridges to reduce the internal volume of the filter cartridges. The compressed air injectors include preferably tapered nozzles positioned and aligned with a corresponding opening such that the reverse air pulses can deflect off of the inserts disposed within the walls of the filter cartridges and, as a result, against substantially the entire interior surface of the filter medium so as to effect even cleaning of substantially the entire length of the filter assembly.

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