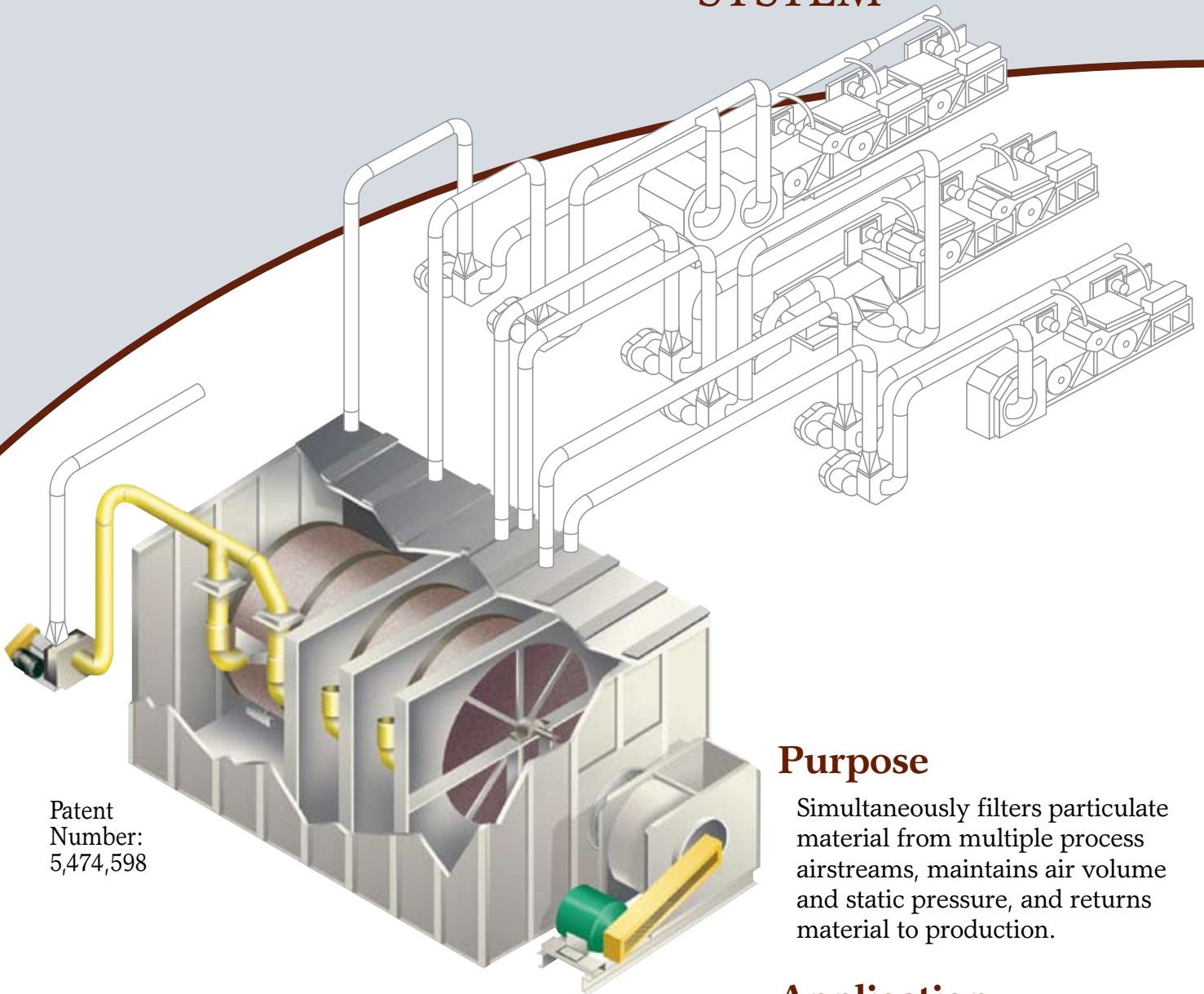


MULTI-LINE DRUM FILTER SYSTEM



Patent
Number:
5,474,598

Purpose

Simultaneously filters particulate material from multiple process airstreams, maintains air volume and static pressure, and returns material to production.

Application

Filtration for Soft Disposable forming processes including diapers, sanitary napkins, and adult incontinence pads; Fluff Reclaim, Bale Opening, SAP Extraction, Cull Collection, and Scrap Collection Systems; Textile processes; Filtration for plastic dust collection such as Trim and Regrind/Reclaim Systems, Cyclone outlet filtration, and Trim Collection.



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Operation

Process air is ducted to independent filtration cells within a Rotary Drum Filter Enclosure. The airborne particulate/fiber is deposited on the media surface while clean air passes through the filter media. Particulate is removed by suction nozzles and conveyed to a convenient collection point or returned to the production process. The clean air is discharged to the atmosphere by a unique airfoil balancing fan. The special independent filtration cell arrangement for each production line and selected design features of air control allow this process to occur on multiple production lines simultaneously.

Features

- Applicable to as many as 3 production lines simultaneously.
- Filters air from adult incontinence, baby diaper, and sanitary napkin lines concurrently.
- Predictable and constant air pressure for reliable, continuous suction on 3 lines simultaneously.
- Self-cleaning design returns valuable fiber to multiple processes.
- Economic drum filtration on multiple sanitary napkin lines.
- High efficiency filtration provides clean air to the environment.
- High pressure design.
- Drum diameters from 4' to 12'.
- Drum lengths up to 20'.
- Fluorescent Lights.
- Standard, split, pneumatic manifolds for alternate cleaning.
- Provides filtration for selective fiber and SAP reclaim.
- Conversion kits for increased capacity.
- Paint Color Selection

Options

- Final Filter
- Wide-body Enclosure design
- Very high pressure design
- Explosion vents or hatches
- Outside drive
- Pre filters
- Off-Line Collection
- Final Filter for efficiency of 99.96%