

ABSTRACT

[0108] Embodiments provide a filter with a generally rectangular, non-cylindrical profile. The filter may have multiple pleat packs positioned between pleat covers that define regions and flow channels in a cavity of the filter body. The pleat covers have openings that allow a fluid to flow through the multiple pleat packs via parallel flows or series flows. End caps bonded to the body define flow passages for directing the fluid from an inlet to an outlet via the pleat packs for series or parallel filtration. The pleat packs may be made of the same or different materials and may be configured with the same or different heights based on flow requirements. A cage or a separator may be positioned between the pleat packs. The pleat packs may be made of a continuous pleated membrane with bridges defining a space between the pleat packs to accommodate the cage or separator.

FIG. 4