

Abstract

Filter Element

A filter element for use in cross-flow and dead-end filtration which can be manufactured with reasonable costs and allows adaptation to various filtration applications comprises a porous sheet material having a non-filtrate side and a filtrate side, said sheet material being arranged in a plurality of pleats extending in a longitudinal direction, each pleat having a first and second wall portion extending perpendicular to said longitudinal direction from a first, open end to a second, closed end of the pleats, the first and second wall portions being spaced apart from one another; and a non-filtrate fluid supply arrangement extending along the longitudinal direction of the pleats, wherein said fluid supply arrangement is in fluid communication with the first or second end of each pleat substantially along the whole length of the pleat, said fluid supply arrangement being provided with openings designed to provide a fluid flow from the supply arrangement into the pleats in a direction substantially perpendicular to the longitudinal direction thereof.

Fig. 1A