

ABSTRACT

FILTER ELEMENTS

A filter element has a pleated composite and first and second end elements mounted to opposite first and second ends of the filter element. The pleated composite has a filter medium layer and a grooved mesh drainage layer pleated with the filter medium layer. The grooved mesh drainage layer has a plurality of strands and a plurality of grooves formed in the strands. The grooved mesh drainage layer directs fluid via the grooves to or from the filter medium layer and the filter medium layer removes one or more substances from fluid flowing through the filter medium layer.

(Figure 2)