

Abstract

Catalytic Filter System

In order to provide a catalytic filter system which is easily adaptable to the various challenges of a catalytic gas phase reaction, a catalytic filter system is proposed,

wherein the system comprises a filtration vessel having a fluid inlet and a fluid outlet, a separation wall provided in the interior of said filtration vessel and a plurality of filter candles,

said separation wall dividing said interior into a raw gas chamber and a clean gas chamber;

said separation wall comprising a plurality of openings designed to sealingly accommodate said plurality of filter candles;

said fluid inlet being arranged in fluid communication with said raw gas chamber upstream of said plurality of filter candles;

said fluid outlet being arranged in fluid communication with said clean gas chamber downstream of said plurality of filter candles; and

said filter system comprising a first catalytic medium which is accommodated in said clean gas chamber downstream of said filter candles and upstream of said fluid outlet.

Figure 1