

A centrifugal filter with vertical rotational axis of gas flow, in which a system of consecutive curvilinear channels with closed contours of variable cross section is located. The closed contours of variable cross section contain paired channels substituted relative to unpaired channels for the width, which increases with increase of the number of channel. The recovered particles penetrate radial clearance made near outlying walls of the first and second channels. The intensifiers of the process of catching of aerosols are located on the sides of inlet duct. The purified gas flow is discharged through outlet branch pipe located on the cover of filter.