

# WET FILTER FOR FINE PARTICULATE

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The invention relates to a wet filter, to be deployed both on industrial and domestic boilers, for the separation of fine particulates present in the gases deriving from the biomass combustion.

**Protection:** International

**Inventors:** Augusto Bianchini, Cesare Saccani

## INVENTION

Many Italian and European cities faces issues related to **excessive particulate emission** in the atmosphere, caused by the use of **domestic boilers**, which are characterized by low combustion yields and the high emission of particulates. The proposed invention comprise a wet filter consisting of a generator of droplets suitable for **separation of fine powders** transported by a **gaseous stream**. Deployed on the output of the particulate-emitting device, such ad a biomass boiler, it allows filtering the particulate contained in the exhaust gas, with **extremely high efficiency**.

## ADVANTAGES

- low energy consumption;
- possibility of tailoring;
- high level of separation efficiency.

## APPLICATIONS

Plants, including domestic boilers, requiring higher filtration ratio, without having to install an industrial filter.

## CONTACTS

Knowledge Transfer Office

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