

Title (en)

EXHAUST GAS PROCESSING DEVICE FOR DIESEL ENGINE

Title (de)

ABGASVERARBEITUNGSVORRICHTUNG FÜR EINEN DIESELMOTOR

Title (fr)

DISPOSITIF DE TRAITEMENT DES GAZ D'ÉCHAPPEMENT POUR MOTEUR DIESEL

Publication

EP 2642095 A1 20130925 (EN)

Application

EP 11842356 A 20110728

Priority

- JP 2010256160 A 20101116
- JP 2011067318 W 20110728

Abstract (en)

Provided is an exhaust gas purification equipment for a diesel engine, such that size reduction of a cyclone can be achieved, and a high particulate matter (PM) collection efficiency and low fuel consumption also can be achieved. The exhaust gas purification equipment has a discharge electrode charging particulate matter contained in exhaust gas of a diesel engine using a low-grade fuel equal to or less than fuel oil, and a tubular collecting part constituting a precipitation electrode for collecting the charged particulate matter, and is provided with a segregating and collecting means of a cyclone system for segregating and collecting the particulate matter which has been detached from the tubular collecting part, and in this equipment, a system is adopted in which a cyclone collecting means composed of one or more tangential cyclones is provided at an exhaust gas outlet portion for high PM concentration provided in the vicinity of an inner face on a downstream side of the tubular collecting part, and in which a high PM concentration of exhaust gas stream discharged through the exhaust gas outlet portion for high PM concentration is selectively introduced into the tangential cyclone according to the flow rate of the exhaust gas.

IPC 8 full level

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EP3632570A4; EP3130773A4; US2016096183A1; US9901933B2; EP2857104A4; FR3073430A1; DE102022203622B3

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