Technology Offer

Cleaning device for heating-boilers

Description
With the burning of liquid or solid fuel combustion residues will be produced, which lead to deposits on the inner walls of central heating boilers and in the downstream flue gas outlets. Normally these combustion residues, which might cause a deterioration of efficiency as well as corrosion within the burning chamber and flue gas outlets, will be removed with the help of a boiler cleaning brush. This usual procedure however - apart from the time-consuming manual work - has disadvantages such as the wall surfaces and the seals between the walls could be damaged. Also the person doing the cleaning is exposed to a high dust concentration, which represents a scientifically proven health risk. With the new procedure for the cleaning of the burning chamber and the flue gas outlets of the heating-boiler a profound cleaning will be achieved by avoiding any soot emission with considerably lower work expenditure. For this purpose, a pressure pipe is inserted into the flue’s opening, and the combustion chamber is sprayed with a cleaning liquid. The residues of combustion solved by the liquid are removed by means of a suction tube which is inserted into the flue’s opening and sealed there. For the cleaning of the flues, the pressure pipe and the suction tube are inserted into the flue pipe. A particularly effective cleaning is reached by simultaneous inlet and outlet through the flue’s opening and the flue pipe. Due to the sealed insertion of both the pressure pipe and the suction tube, an emission of soot from the heating boiler during the cleaning process is avoided, contrary to common cleaning with a brush.

Application
Cleaning of the combustion chambers and the flues of heating boilers.

Advantages
- Quick and thorough cleaning of combustion chambers and flues
- Easy insertion into the respective cleaning openings
- Easy handling
- No emission of soot, hence no soiling of the surroundings and, above all, no exposure of substances injurious to the health of the person doing the cleaning

Status of development
- 2 prototypes nearly at series maturity

Patent situation
German Patent granted
European Patent granted in AT, DE, FR, UK and CH

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a) vehicle-installed large version
b) portable compact version

Additional Information
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