



A-S-F super-aspirated air filter

This paper was financially supported by the Project "Network of excellence in applied research and innovation for doctoral and postdoctoral programs / InoHubDoc", project co-funded by the European Social Fund financing agreement no. POCU/993/6/13/153437

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This study presents a method for optimizing the intake system in the case of the internal combustion engine by implementing an axial super-aspirated air filter with special functions. The axial super-aspirated air filter has the following functions: capture, recovery, increasing the air

speed and reducing the temperature.

The advantages are the reduction of fuel consumption and polluting emissions.





This study is based on several **patents** related to the super-aspirated air filters as follows:

Filtru de aer supraaspirant, 126019, 2012;
 Filtru supraaspirant inversat, 125034, 2013;
 Air Filter for IC Engines, US14/121,674, 2016.



In general the relatively high values of the temperature recorded on the intake system is due to the organization of the propulsion group, the air filter location and the lack of protection in the filter area.

A solution in order to reduce the temperature on the intake system consists in the implementation of an Air by Corneliu system composed of the super-aspiring air filter, dynamic system of air transfer (STDA) and integrated thermal deflector.

The researches has shown that temperatures have been reduced by up to 50%.

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