

ABSTRACT**IMPROVED AIR FILTER ELEMENT FOR INTERNAL COMBUSTION ENGINES**

- 5 An air filter assembly for an air box connected to an internal combustion engine. The air filter assembly consists of a frame and a metallic air filter element. A second filter element can also be incorporated into the air filter assembly. The metallic air filter element has microscopic holes formed from fine metallic wires woven into a criss cross pattern and forming a sheet. The metallic air filter element can also be made
- 10 from a fine metallic sheet with microscopic holes. The sheet has many undulations in a single direction forming an enlarged surface area for capture of particles of dirt, dust, carbon and oil in the surrounding air as the air flows through the air filter assembly in the air box before entering the internal combustion engine.
- 15 The air filter assembly can be removed from the air box and individually cleaned of the particles of dirt, dust, carbon and oil or even replaced. After cleaning, the air filter assembly can be re-fitted into the air box for further use.

20 Fig. 3

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