

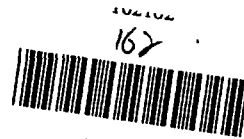
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ABSTRACT

AIR FILTER



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An air filter includes a filter pack, and a net-shaped member disposed at least at a location downstream of said filter pack. The net-shaped member has at least one rib, which is provided thereon, so that it is accommodated in a filter frame. The strength of the filter pack can be maintained by the provision of the rib and hence, it is possible to eliminate a possibility of deformation of a large-side air filter and a possibility of damage or breaking of the air filter due to such deformation. The filter pack is comprised of a filter medium, which is folded in a zigzag fashion and which has pleats, and the rib of the net-shaped member is provided in parallel to the pleats. Folded portions are fixed with a ribbon-shaped resin, and a lack portion free of the ribbon-shaped resin is provided in an extent corresponding to at least one fold-crest to constitute independent blocks, and the rib of the net-shaped member is sunk into the lack portion. Thus, one unit is constituted by the plurality of independent blocks and hence, the present invention is applicable to a large-sized air filter provided with mini-pleats. Moreover, when a defective portion has been produced, the normal blocks can be used continuously by removing only the block having the defective portion. Thus, it is

possible to effectively utilize the filter medium and to reduce the industrial waste produced due to the discarding of the filter medium.

Figure 1