

ABSTRACT

Title : Air Filtering Mesh Screen For Combustion Apparatus and Combustion Apparatus Incorporating the same

The present utility model discloses an air filtering mesh screen for a combustion apparatus and a combustion apparatus incorporating the same. The air filtering mesh screen includes a screen body with uniformly spaced aperture openings and a coating over the screen body. The coating comprises thorium oxide (ideally, thorium-232). A ratio of an intact thickness of the screen body to a thickness of the screen body bearing the coating is from 3: 4 to 3: 7. Use of the air filtering mesh screen in a combustion apparatus such as an automobile engine can result in an effective improvement in fuel efficiency, a reduction in both fuel consumption and carbon deposit, and thus an environmentally friendly effect, as shown in Figure 2.