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1. Field of the Invention The present invention relates to a molten iron making method and apparatus, and more particularly, to a method and apparatus for removing fine solid particles (hereinafter referred to as "particulate matter") entrained in the molten iron. 2. Description of the Related Art The conventional molten iron making process (or method) comprises the steps of: (1) charging preheated molten iron into a furnace; (2) injecting oxygen gas into the molten iron in the furnace to oxidize the preheated molten iron so that the molten iron is transformed into a molten iron which is essentially iron oxide, while at the same time, generating a slag which mainly comprises iron oxides and silicon oxide; (3) removing the iron oxides by extracting the molten iron through a tuyere by using the atmosphere in the furnace, and purifying the molten iron by using the slag, and then supplying the purified molten iron to the other steps; (4) withdrawing the purified molten iron from the furnace through the tuyere and charging it into a ladle; and (5) withdrawing the slag from the furnace through a tap hole and recovering it. With the foregoing process, however, because the preheated molten iron is directly introduced into the furnace, fine solid particles (hereinafter referred to as "particulate matter") entrained in the preheated molten iron are also introduced into the furnace. When the preheated molten iron is further oxidized in the furnace, the entrained particulate matter is mixed with the molten iron, and are oxidized with the molten iron to form iron oxide. Therefore, it is necessary to periodically remove the particulate matter from the molten iron. To remove the particulate matter from the molten iron, an apparatus which has a high particulate matter removing efficiency and is capable of removing fine particulate matter, particularly the fine iron oxide particles, has been employed. The fine particulate matter removing apparatus generally comprises a refractory inner cylinder, a slag-forming device for forming a slag within the inner cylinder, a slag-forming water supply device for supplying water, and a slag-removing device for removing the slag from the inner cylinder. These devices are supported by a cooling water bath extending in the axial direction of the inner cylinder. In operation, the inner cylinder is submerged in the cooling water bath. The slag-forming device is supplied with water so as to form a 82157476a

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