

Title (en)

APPARATUS AND METHOD FOR PHOTOCATALYTIC PURIFICATION AND DISINFECTION OF WATER AND ULTRAPURE WATER

Title (de)

VORRICHTUNG UND VERFAHREN ZUR PHOTOKATALYTISCHEN REINIGUNG UND DESINFEKTION VON WASSER UND ULTRAREINEM WASSER

Title (fr)

APPAREIL ET PROCEDE DE PURIFICATION ET DE DESINFECTION PHOTOCATALYTIQUE D'EAU ET EAU ULTRAPURE

Publication

**EP 1434737 A1 20040707 (EN)**

Application

**EP 01927447 A 20010412**

Priority

US 0140515 W 20010412

Abstract (en)

[origin: WO02083570A1] An apparatus and method for the photocatalytic purification and ultrapurification of water. Water containing organic, inorganic, and/or biological contaminants is directed through a rigid, three-dimensionally open celled, fluid permeable, semiconductor unit (18). Within the unit, a semiconductor surface capable of promoting electrons from its valence band to its conduction band, when exposed to a photoactivating light source (38, 40), removes the contaminants through a photocatalytic reaction.

IPC 1-7

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IPC 8 full level

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