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(54) Title: WATER FILTRATION SYTEM WITH ACTIVATED CARBON AND ZEOLITE

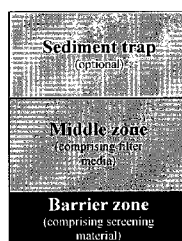


Fig 2A

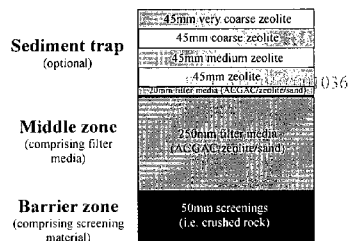


Fig 2B

(57) Abstract: In one embodiment the invention relates to a filter media for removal of contaminants from water comprising aluminium coated granular activated carbon and granular zeolite. Another embodiment relates to a method of producing aluminium coated granular activated carbon comprising exposing granular activated carbon to an aqueous solution comprising one or more aluminium salts which is acidified to a pH of between about 5 and about 6.8, removing the aqueous solution and washing and drying the aluminium coated granular activated carbon that is produced. Further embodiments relate to: a filter system for removal of contaminants from water comprising (i) a middle zone comprising granular activated carbon and granular zeolite and (ii) a lower barrier zone comprising screening material, wherein the system allows a flow rate of water there through of from about 0.5Lsec⁻¹m⁻² to about 10Lsec⁻¹m⁻²; a cartridge containing the filter system and related methods of removing contaminants from water.