(19) INDIA

(22) Date of filing of Application :06/07/2021 (43) Publication Date : 24/02/2023

## (54) Title of the invention: INTEGRATED WATER PURIFICATION SYSTEM

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	C02F0001000000, C02F0103000000, C02F0001680000 :NA :NA :NA :NA :NA :NA :NA :NA

## (57) Abstract:

The present disclosure relates to a system (100) for treating greywater, the system includes a reservoir (104) configured to receive greywater from a source through a first set of pipelines (102), the reservoir (104) fluidically coupled to the sources. A first filter (106), upon operation of a pump (112), configured to receive the greywater from the reservoir (104), the first filter (106) adapted to filter a first set of contaminates from the greywater. A second filter (110) adapted to receive the filtered greywater from the first filter (106) through a second set of pipelines (108), wherein the second filter (110) comprises nanoparticles for incorporation into plant structures and adapted to filter a second set of contaminates from the greywater, the treated greywater from the second filter (110) is stored in a storage unit to distribute the treated greywater for reuse.

No. of Pages: 16 No. of Claims: 10