

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411026895 A

(19) INDIA

(22) Date of filing of Application :31/03/2024

(43) Publication Date : 03/05/2024

(54) Title of the invention : SYSTEM FOR UTILIZING DOMESTIC AIR CONDITIONER WASTE HEAT FOR OPERATING INDOOR SOLAR STILL

(51) International classification :C02F0001140000, F24F0005000000, F24F0008100000, F24F0013280000, F24F0011880000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Sunirmit Verma

Address of Applicant :CUIET, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Dr. Deepam Goyal

Address of Applicant :Assistant Professor, CURIN, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

(57) Abstract :

ABSTRACT System for Utilizing domestic Air Conditioner Waste Heat for operating Indoor Solar Stills The present disclosure introduces a system for utilizing domestic air conditioner waste heat for operating indoor solar stills 100 which is designed to address the challenge of limited sunlight access in indoor environments, particularly in multi-storey apartments, by repurposing a byproduct of air conditioning systems. It comprises of exhaust pipe 102, basin liner 104, glass cover 106, compressor 108, expansion valve 110, condenser coils 112, evaporator coils 114, fan 116, fan axle 118 and blower 120. Waste heat from the air conditioner is directed through the exhaust pipe to heat water in the solar still setup, where it evaporates and condenses on the glass cover, resulting in purified water. REFERENCE FIG 1

No. of Pages : 20 No. of Claims : 10