

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431005368 A

(19) INDIA

(22) Date of filing of Application :25/01/2024

(43) Publication Date : 02/02/2024

(54) Title of the invention : REVOLUTIONIZING HYGIENE WITH BAMBOO SHEAT PORTABLE TOILET WITH ANTIMICROBIAL PROPERTIES AND EARTH-FRIENDLY DISPOSAL

(51) International classification :A61L0015460000, A47K0011020000, A61K0036886000, E04H0001120000, A61K0008979400

(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)Brainware University, Kolkata

Address of Applicant :398, Ramkrishnapur Rd, Near Jagadighata Market, Barasat, Kolkata, West Bengal 700125 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Paramita Ghosh

Address of Applicant :Assistant Professor, Brainware University, Kolkata-700125 -----

2)Srijita Maiti

Address of Applicant :BSCBT2023, Biotechnology Department, Brainware University, Kolkata-700125 -----

3)Bhaswar Mazumder

Address of Applicant :BSCBT2023, Biotechnology Department, Brainware University, Kolkata-700125 -----

4)Touhid Rahaman

Address of Applicant :BSCBT2023, Biotechnology Department, Brainware University, Kolkata-700125 -----

(57) Abstract :

[026] The proposed invention is a portable toilet system addresses sanitation challenges in rural, outdoor, and disaster relief settings. Utilizing eco-friendly bamboo fibers, including bamboo sheath and bamboo linen with aloe vera for antimicrobial properties, the system features a compressible concentric seat with foldable flaps and a 'snap-fit mechanism' for easy assembly. The structure ensures versatility in diverse environments, providing a cost-effective and lightweight solution. The antimicrobial properties of aloe vera and bamboo contribute to odor control, hygiene, and mold prevention. The system's biodegradable components, including a disposable bag, prioritize environmental sustainability. This unique solution offers enhanced user safety, rapid deployment for military operations, and a vital tool for disaster relief, showcasing a positive impact on sanitation and well-being.

No. of Pages : 16 No. of Claims : 8