(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application:12/01/2022

(21) Application No.202211001629 A

(43) Publication Date: 14/01/2022

(54) Title of the invention: MARBLE DUST, BANANA FIBER REINFORCED PLASTICIZED PVC HYBRID COMPOSIT PIPING APPLICATION

(51) International classification :C08K0005000000, C08L00270600000, B29C0070300000, A61F00022800000,

C08J0005040000

(86) International :NA Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition :NA

• Application Number :NA

Filing Date :NA

Application Number Filing Date

(71)Name of Applicant:

1)Man Mohan Siddh

Address of Applicant: Department of Mechanical Engin Jaipur Engineering College and Research Centre JECRC C Shri Ram Ki Nangal Via Sitapura RIICO, Opp. EPIP Gate, Road, Jaipur, India – 302022 -----

2)Ranveer Singh

3)Shiv Ranjan Kumar Name of Applicant: NA Address of Applicant: NA

(72)Name of Inventor:

1)Mar Mohan Siddh

Address of Applicant: Department of Mechanical Engineer Jaipur Engineering College and Research Centre JECRC C Shri Ram Ki Nangal Via Sitapura RIICO Opp. FPIP Gate

Road, Jaipur, India - 302022 -----

2)Ranveer Singh

Address of Applicant: Department of Mechanical Engineer Jaipur National University SADTM Campus Near New RT Office Jagatpura Jaipur 302017 -----

3)Shiv Ranjan Kumar

Address of Applicant: 956, Shantinagar, Durgapura, Jaipur. 302018 ------

(57) Abstract:

Marble dust, banana fiber reinforced plasticized PVC hybrid composite comprises of banana fiber, marble dust, plasticized PVC based epoxy composite. The fabrication of hybrid composite setup (100) consists of disc (101), resin chamber (102), Spray gun filler hopper (104), rotating roller (107), weighing system (105), and weight (106). Marble dust, banana fiber reinforced plastic PVC hybrid composite material produced as per setup (100) as claimed in claim 1 produces low porosity and better mechanical hurdness and strength. Banana fiber yields tensile and impact-resistance in the piping components. Both Marble dust and plastic PVC result in better hardness and wear resistance. Marble dust, Banana fiber and plasticized PVC fabricated as per (100) as claim 1 show high degree of corrosion resistance.

No. of Pages: 12 No. of Claims: 6

REGISTRAR

Registrar Jaipur National University