

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/10/2023

(21) Application No.202341071207 A

(43) Publication Date : 26/01/2024

(54) Title of the invention : CHAIN TRENCHER FOR AGRICULTURAL APPLICATION

(51) International classification :A01D13/00, E02F3/10,
E02F3/14
(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)S. Prathap Singh

Address of Applicant :Assistant Professor, Department of Mechanical
Street Engineering, St. Joseph's Institute of Technology, OMR, Chennai.
City Chennai State Tamilnadu Country India Pin code 600 119 -----

2) Dr. M. Gerald Arul Selvan

3)M.M. Anwar Rajesh

4)Dr. J Jebeen Moses

5)Dr. M. Felix Xavier Muthu

6)P. Srinivasan

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)S. Prathap Singh

Address of Applicant :Assistant Professor, Department of Mechanical
Street Engineering, St. Joseph's Institute of Technology, OMR, Chennai.
City Chennai State Tamilnadu Country India Pin code 600 119 -----

2) Dr. M. Gerald Arul Selvan

Address of Applicant :Assistant Professor, Department of Mechanical
Engineering, St. Xavier's Catholic College of Engineering, Nagercoil.
City Nagercoil State Tamilnadu Country India Pin code 629 003 -----

3)M.M. Anwar Rajesh

Address of Applicant :Assistant Professor, Department of Mechanical
Engineering, St'Xavier's Catholic College of Engineering, Nagercoil. City
Nagercoil Slate Tamilnadu Country India Pin code 629 003 -----

4)Dr. J Jebeen Moses

Address of Applicant :Assistant Professor, Department of Mechanical
Engineering, St'Xavier's Catholic College of Engineering, Nagercoil. City
Nagercoil Slate Tamilnadu Country India Pin code 629 003 -----

5)Dr. M. Felix Xavier Muthu

Address of Applicant :Assistant Professor, Department of Mechanical
Engineering, St'Xavier's Catholic College of Engineering, Nagercoil. City
Nagercoil Slate Tamilnadu Country India Pin code 629 003 -----

6)P. Srinivasan

Address of Applicant :Assistant Professor, Department of Mechanical
Engineering, Periyar Maniammai institute of science & Technology,
Vallam- City Thanjavur Slate Tamilnadu Country India Pin code 613 403

(57) Abstract :

Abstract of the Invention > Trenchers are the equipment's used :9 dig trenches in the'ground. > These are also available in many sizes based on our
requirement. > The trenches dug are generally used for drainage purpose, pipeline laying, laying, and cable > Our main aim is to redesign and modify
available trenches, to applicable for agricultural applications, using different mechanisms. > So the chain mechanism has been implemented in the
trenches to make the controllable movement, when attaching with tractor. > This equipment has provided us excellent opportunity and experience, to
use our limited knowledge. > We feel that this equipment is a good solution to bridge the gate between institution and agricultural industries.

No. of Pages : 4 No. of Claims : 1