

Home (<https://ipindia.gov.in/>) About Us (<https://ipindia.gov.in/Home/AboutUs>) Policy & Programs (<https://ipindia.gov.in/Home/policypages>)
 Achievements (<https://ipindia.gov.in/Home/achievementspage>) RTI (<https://ipindia.gov.in/Home/righttoinformation>)
 Sitemap (<https://ipindia.gov.in/Home/Sitemap>) Contact Us (<https://ipindia.gov.in/Home/contactus>)

[Skip to Main Content](#)



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic>)

Patent Search

Invention Title	CONCENTRIC CONICAL LOADING TEE PNEUMATIC FEEDER TO HANDLE MOISTURE AND DRY POWERS FOR LONG DISTANCE
Publication Number	42/2022
Publication Date	21/10/2022
Publication Type	INA
Application Number	202241057804
Application Filing Date	10/10/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	MECHANICAL ENGINEERING
Classification (IPC)	B65G0053660000, A01C0007080000, B65G0053460000, F23K0003020000, C11D0003390000

Inventor

Name	Address	Country
J.PHANI KRISHNA	PHD RESEARCH SCHOLAR, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS), CHENNAI, TAMIL NADU, INDIA 600117.	India
DR.ASHOK KUMARKATTA	ASSOCIATE PROFESSOR, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS), CHENNAI, TAMIL NADU, INDIA 600117.	India
DR D JAGADEESH	ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY(AUTONOMOUS), THOTTIYAM, TRICHY, TAMIL NADU, INDIA 621215.	India
J.ARAVINDHAN	ENGINEERING MANAGER, TRYCAE INDUSTRIAL ENGINEERING PVT LTD., AMPLE ARUDHRA TOWERS, RAJARAM SALAI, K K NAGAR, TRICHY, TAMIL NADU, INDIA 620021.	India
B.DANUSHKUMAR	DESIGN ENGINEER, TRYCAE INDUSTRIAL ENGINEERING PVT LTD., AMPLE ARUDHRA TOWERS, RAJARAM SALAI, K K NAGAR, TRICHY, TAMIL NADU, INDIA 620021.	India
DR.G.SARAVANAN	ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY(AUTONOMOUS), THOTTIYAM, TRICHY, TAMIL NADU, INDIA 621215.	India
DR.K.PERIASAMY	PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY(AUTONOMOUS), THOTTIYAM, TRICHY, TAMIL NADU, INDIA 621215.	India
S.KUMARAVEL	ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY(AUTONOMOUS), THOTTIYAM, TRICHY, TAMIL NADU, INDIA 621215.	India
S.CHANDRAKUMAR	ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY(AUTONOMOUS), THOTTIYAM, TRICHY, TAMIL NADU, INDIA 621215.	India

Applicant

Name	Address	Country
DR.M.VIVEKANANDAN	CEO, TRYCAE INDUSTRIAL ENGINEERING PVT LTD., AMPLE ARUDHRA TOWERS, RAJARAM SALAI, K K NAGAR, TRICHY, TAMIL NADU, INDIA 620021.	India

Abstract:

ABSTRACT Feeding powders in pneumatic conveying systems, possesses an issue of handling both moisture and dry powders in a typical feeding system where a pov stored in hoppers is fed into the conveying system through a rotary air lock valve, where in the mixing length and mixing chamber is a main criterion for the design. A shown in fig 1 and 2, in which fig. 1 is an eccentric loading Tee and Fig.2 is a L shape Loading Tee, in the prior art of two systems, there is no effective mixing of air and well as generating a Dense phase flow at the transport section or delivery section is not achievable. The invention concentric conical loading Tee with upstream ventu provide a buffer space for the particles to be stored and mixed with the air to generate a dense phase flow at the transport section. Being a concentric conical tee, th can handle material of high moisture content, concentric conical tee is also capable handling material with varying angle of repose.

Complete Specification

CLAIMS

We claim

[Claim 1]

An invention consisting of Concentric Loading Tee for Dense Phase Long Transport

[Claim 2]

A Concentric Loading Tee Which can handle both Dry and wet powders.

[Claim 3]

A Concentric Loading Tee Which can handle varying Angle of Repose.

[Claim 4]

A Concentric Loading Tee Which can handle High Moisture Content.

[Claim 5]

A Buffer Space in Concentric Loading Tee which will aid in generating a Dense phase Long Distance Transport

[View Application Status](#)

[Terms & conditions \(https://ipindia.gov.in/Home/Termsconditions\)](https://ipindia.gov.in/Home/Termsconditions) [Privacy Policy \(https://ipindia.gov.in/Home/Privacypolicy\)](https://ipindia.gov.in/Home/Privacypolicy)

[Copyright \(https://ipindia.gov.in/Home/copyright\)](https://ipindia.gov.in/Home/copyright) [Hyperlinking Policy \(https://ipindia.gov.in/Home/hyperlinkingpolicy\)](https://ipindia.gov.in/Home/hyperlinkingpolicy)

[Accessibility \(https://ipindia.gov.in/Home/accessibility\)](https://ipindia.gov.in/Home/accessibility) [Contact Us \(https://ipindia.gov.in/Home/contactus\)](https://ipindia.gov.in/Home/contactus) [Help \(https://ipindia.gov.in/Home/help\)](https://ipindia.gov.in/Home/help)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019