



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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



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

Application Details

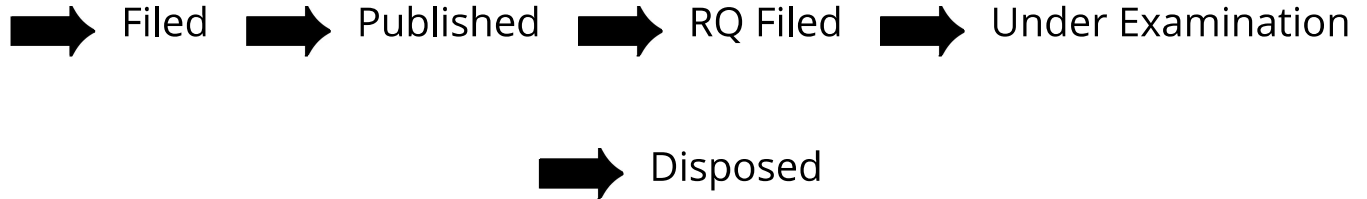
APPLICATION NUMBER	202241004719
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/01/2022
APPLICANT NAME	1 . Dr.M.Ranjit 2 . Dr.V.Ramesh Babu 3 . Dr.J.Srinivasa Rao 4 . Dr.T.Nireekshana
TITLE OF INVENTION	Advanced Non Centric PWM (Pulse Width modulated) method to Eliminate Common Mode Voltage in Dual Inverter Fed Open-End Induction Motor Drives
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	ravirlyfan@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/02/2022

Application Status

APPLICATION STATUS

Awaiting Request for Examination

[View Documents](#)



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(54) Title of the invention : Advanced Non Centric PWM (Pulse Width modulated) method to Eliminate Common Mode Voltage in Dual Inverter Fed Open-End Induction Motor Drives

(51) International classification :H02M0007538700, H02M0001120000, H02P0027060000, H02P0021000000, G01R0031340000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

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

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

(71)Name of Applicant :
1)Dr.M.Ranjit
 Address of Applicant :VNRVJIET VignanaJyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad- 500090, Telangana State, India -----
2)Dr.V.Ramesh Babu
3)Dr.J.Srinivasa Rao
4)Dr.T.Nireekshana
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr.M.Ranjit
 Address of Applicant :VNRVJIET VignanaJyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad- 500090, Telangana State, India -----
2)Dr.V.Ramesh Babu
 Address of Applicant :VNRVJIET VignanaJyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad- 500090, Telangana State, India -----
3)Dr.J.Srinivasa Rao
 Address of Applicant :VNRVJIET VignanaJyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad- 500090, Telangana State, India -----
4)Dr.T.Nireekshana
 Address of Applicant :VNRVJIET VignanaJyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad- 500090, Telangana State, India -----

(57) Abstract :
 The advantages of Asynchronous machines made them so popular in present industry over other machines. Especially, the voltage source inverter (VSI) fed asynchronous drive is preferable for variable speed. Various PWM techniques are used to get the control over the output voltage and frequency of VSI. The conventional VSI suffers with the drawbacks of poor quality output and the larger magnitude of Common Mode Voltage (CMV) which results flow of huge currents through the motor bearings leading to the reduction of efficiency and life span of the motor. Therefore, a new configuration is developed. It is known as Open-End Winding Induction Motor. Various space vector based PWM techniques are implemented in the past to eliminate the CMV. But all those methods not eliminate the CMV completely and to improves the quality of output voltage along with elimination of CMV is done. The same is verified by implementing the prototype model.

No. of Pages : 18 No. of Claims : 2