

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/11/2023

(21) Application No.202311079744 A

(43) Publication Date : 29/12/2023

(54) Title of the invention : BILLBOARD SAFETY MECHANISM (BSM) IN HIGH VELOCITY WINDS

(51) International classification :G06Q0030020000, G09F0015000000, C02F0101200000, E04H0009020000, H05K0003300000  
(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)Amit Kumar Mandal**

Address of Applicant :Flat No. 102, Plot No. 20, Dakshinpuri B, Shrikishanpura -----

**2)Poornima college of engineering**

**3)Vishad Tainwala**

**4)Jagrati Agarwal**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

**1)Jagrati Agarwal**

Address of Applicant :Address: 3/53 Agarwal kunj,Housing board , Pratapgarh, Rajasthan Pratapgarh -----

**2)Amit Kumar Mandal**

Address of Applicant :Flat No. 102, Plot No. 20, Dakshinpuri B, Shrikishanpura -----

**3)Sachin Yadav**

Address of Applicant :Vill. Hulmana Khurd Teh. Mundawar, Alwar (Rajasthan) Alwar -----

**4)Poornima college of engineering**

Address of Applicant :Poornima College of engineering ISI-6, Sitapura Institutional area, Sitapura Jaipur, Rajasthan 302022 Jaipur -----

**5)Vishad Tainwala**

Address of Applicant :Address: A-03, A.S.I Officers Colony, Kherabad Road, Ramganjmandi, Kota(dist.), Rajasthan Kota -----

(57) Abstract :

Abstract- Billboards are applied for advertisement purpose. They are generally applied on road sides and building tops. If the size of billboard is large enough, the structure of billboard has to be developed sufficiently strong to withstand the various kinds of forces applied on it. The forces applied by heavy winds is one of them. It is observed that in strong winds the billboards do collapse by large magnitude of forces due to momentum change of wind on the billboard. The present innovation is a method in which the billboard will automatically align itself parallel to wind flow direction during heavy winds, while in low-velocity winds they will return back to their correct orientation. It is totally mechanical, needs no electrical/electronic component. The sensitivity of system is also customizable

No. of Pages : 9 No. of Claims : 8