IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 5, June 2023

Simple Magnetic Levitation Train

S.G. Saraganachari¹, Abutalha D Maniyar², Aravind R Waddatti³, Gururaj N Ingalagi⁴ and Umesh Karennavar⁵

Professor, Department of Mechanical Engineering¹
Students, Department of Mechanical Engineering^{2,3,4,5}
Basaveshwar Engineering College, Bagalkot, India

Abstract: It is based on the like poles repelling principle of magnetism. It consists of magnetic strip, wood material, propeller and motor. The two long magnetic strips are made as rail, and they are glued to the long piece of wood as a base or ground in such a way that the north pole of the magnet stays up. A 3D printed model is used as train, two magnetic strips are glued at the bottom of the train. The train is placed on the rail, it should levitate because the north poles of the rail and train magnets faces each other. The train might slide right or left and that also can be controlled by side supports..

Keywords: Maglev Levitation, Train, Propel, Magnets, Poles

REFERENCES

- [1]. Abhinav Chugh, Aditya Gupta et.al.," MAGLEV TRAINS: Trains that Fly", Global Journal of Researches in Engineering: B Automotive Engineering Volume 16 Issue 1 Version 1.0 Year 2016 Type: Double Blind Peer Reviewed International Research Journal Publisher: Global Journals Inc. (USA) Online ISSN: 2249-4596 & Print ISSN: 0975-5861.pp.0-4
- [2]. Sujay Jaiaraman, Madhu. S," A RESEARCH REVIEW ON MAGNETIC LEVITATION TRAINS", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.33 (2015) © Research India Publications; http://www.ripublication.comijaer.htm.pp.26808-26814
- [3]. Sanket Pednekar, Anjesh Singh et.al.," Maglev Train", International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 Published by, www.ijert.org ICIATE 2017 Conference Proceedings, Volume 5, Issue 01.pp.1-3
- [4]. Monika Yadav, Nivritti Mehta et.al.," Review of Magnetic Levitation (MAGLEV): A Technology to Propel Vehicles with Magnets", Global Journal of Researches in Engineering Mechanical & Mechanics Volume 13 Issue 7 Version 1.0 Year 2013 Type: Double Blind Peer Reviewed International Research Journal Publisher: Global Journals Inc. (USA) Online ISSN: 2249-4596 & Print ISSN: 0975-5861.pp.28-42
- [5]. Prasad Satish Divekar, Dr. Thippeswamy Ekbote," Design and Analysis of Maglev Trains", International Journal of Science and Research (IJSR) ISSN: 2319-7064 ResearchGate Impact Factor (2018): 0.28 | SJIF (2018): 7.426, Paper ID: ART20199779, Volume 8 Issue 7, July 2019.pp.1444-1449
- [6]. Sourav Mohanty," MAGNETIC LEVITATION TRAINS THE UNFULFILLED PROMISE", International Journal of Mechanical Engineering and Technology (IJMET) Volume 9, Issue 5, May 2018, pp. 7–13, Article ID: IJMET_09_05_002 Available online at http://iaeme.com/Home/issue/IJMET?Volume =9&Issue=5 ISSN Print: 0976-6340 and ISSN Online: 0976-6359
- [7]. K. Yuva Teja, G. Mounika Sharon et.al.," Maglev Trains: An Application of Magnetic Levitation", © JUN 2021 | IRE Journals | Volume 4 Issue 12 | ISSN: 2456-8880, IRE 1702770 ICONIC RESEARCH AND ENGINEERING JOURNALS.pp.103-109
- [8]. Mr. Abhijeet T. Tambe, Prof. Dipak S. Patil et.al.," Introduction & Overview of Magnetic Levitation (MAGLEV) Train System", Volume 3, Issue 2, February 2018 International Journal of Innovative Science and Research Technology ISSN No:-2456 2165, IJISRT18FB152.pp.703-708
- [9]. Aastha Singh," Magnetic Levitation (MAGLEV): A Technology to Propel Vehicles", International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395 -0056 Volume: 03 Issue: 04| Apr-2016 www.irjet.net p-ISSN: 2395-0072, © 2016, IRJET ISO 9001:2008 Certified Journal.pp.1198-1205

DOI: 10.48175/568

ISSN 2581-9429 IJARSCT

IJARSCT



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 3, Issue 5, June 2023

- [10]. Muinuddeen, Prof.Imran Khan," A SYSTEMIC ANALYSIS OF MAGNETIC LEVITATION SYSTEM", © 2020 JETIR November 2020, Volume 7, Issue 11 www.jetir.org (ISSN-2349-5162), JETIR2011394 Journal of Emerging Technologies and Innovative Research (JETIR) www.jetir.org.pp.852-863
- [11]. Dr. Deo Raj Tiwari, Naman Sharma et.al.," Design and Analysis of Maglev Trains", IF: 3.62 | IC Value 70.36, Volume-5, Issue-5, May 2016 ISSN No 2277 8160, GJRA GLOBAL JOURNAL FOR RESEARCH ANALYSIS.pp.415-417

DOI: 10.48175/568

