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A Review on Innovative Concept for a Walker

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Abstract: Over the year's walker or rollator have helped many elderly people to overcome the barrier of dependency. Differently able person can enter all type of field in current days. So, we can provide more facility to them, for that reason we can select this project, in this walker by attached the sitting plate in the walker itself it gives more facility to them. The design features a full frame walker that provides secured and stable support while being foldable and compact. By this walker we can sit anywhere at any time easily. Thus, to make the walker more users friendly, safe, and reliable, a new design or solution is proposed. This not only addresses the problem which is prevalent in the elderly section of society but also will be helpful to people with other disabilities. The proposed design of the walker is to increase the safety and movability of the user.

Keywords: Walker, Design, Load Analysis, Mobility, Rollator

REFERENCES

- [1]. Design of Machine Elements by Prof. V.B Bhandari
- [2]. Material and there properties in designing the walkers is taken from www.irjet.net "A Review on Walker material and design" by Didymose Poovathumkal, Arjun Nandakumar, Ashin Johnson, Joe Lalson, Shravan.M.Pillai
- [3]. D.D. Mohite, Sagar Mollah, Shagoria Bagchi, and Aditya Narayain Singh, "Design of Hybrid Walker for Elderly: Review on Literature". The International Journal of Analytical and Experimental Model Analysis, Vol. XII, Issue I, 2020.
- [4]. Nurul Ariffah Binti Hamidi, "Design and Fabrication of Adjustable and Portable 4-Legs Walker", University Malaysia Pahang, January 2012.
- [5]. F. Nickpour and C. O'Sullivan, "Designing an Innovative Walking Aid Kit: A Case Study of Design in Inclusive Healthcare Products," Springer International Publishing Switzerland, pp.45-54, 2016.
- [6]. Ahmad muammar bin md yasin, lim wei liong, patrick s. K. Chua*, zheng jianxin —design of an assistive walking device with special rehabilitation capabilities universal journal of mechanical engineering4(6): 147-152, 2016
- [7]. Maria Josefa, Aluminum: Metal of choice in Materials and Technologies 47(3):261-265 May 2013
- [8]. Didymose Poovathumkal, "A Review on Walker Material and Design," in the International Research Journal of Engineering and Technology (IRJET), Vol. 06, Issue 05, May 2019
- [9]. Machine design, JK guptha, s.chand technical publications New Delhi.