



DESIGN OF CHAIN-ASSISTED MECHANISM AS A MULTIFUNCTIONAL FLOOR POLISHER

Hernandez, Vince Francis D.

Capuyon, Mark Neni C.

Dulce, Jhon Lee T.

Mapalad, Patrick Jolo B.

Ramos, Marcus Vin R.

Sangalang, Irene Rose P.

Balayan Senior High School

ABSTRACT

This paper seeks to detail the design and development of a new and innovative chain-assisted mechanism for functional floor polishing, as well as the evaluation of its efficacy in comparison to traditional floor polishing methods. Developed as a multifunctional alternative to commonly used floor polishing systems, this design is based on a chain-driven system that connects to regular floor polishing equipment. As a product of elaborate design prototyping and performance testing, it offers significantly enhanced versatility by ensuring an even and uniform polish on various floor surface types. Moreover, the ergonomics of this polisher's design substantially improve the usability factor and facilitate optimal operational outcomes. In addition to its performance, its multifunctionality comes in handy in terms of stashing small equipment. The design of the polisher offers a storage compartment for small cleaning supplies and materials. The design of this floor polisher offers versatility and efficiency, improving the cleaning of floors of different surfaces. Ultimately, the performance of this design was found to be drastically more

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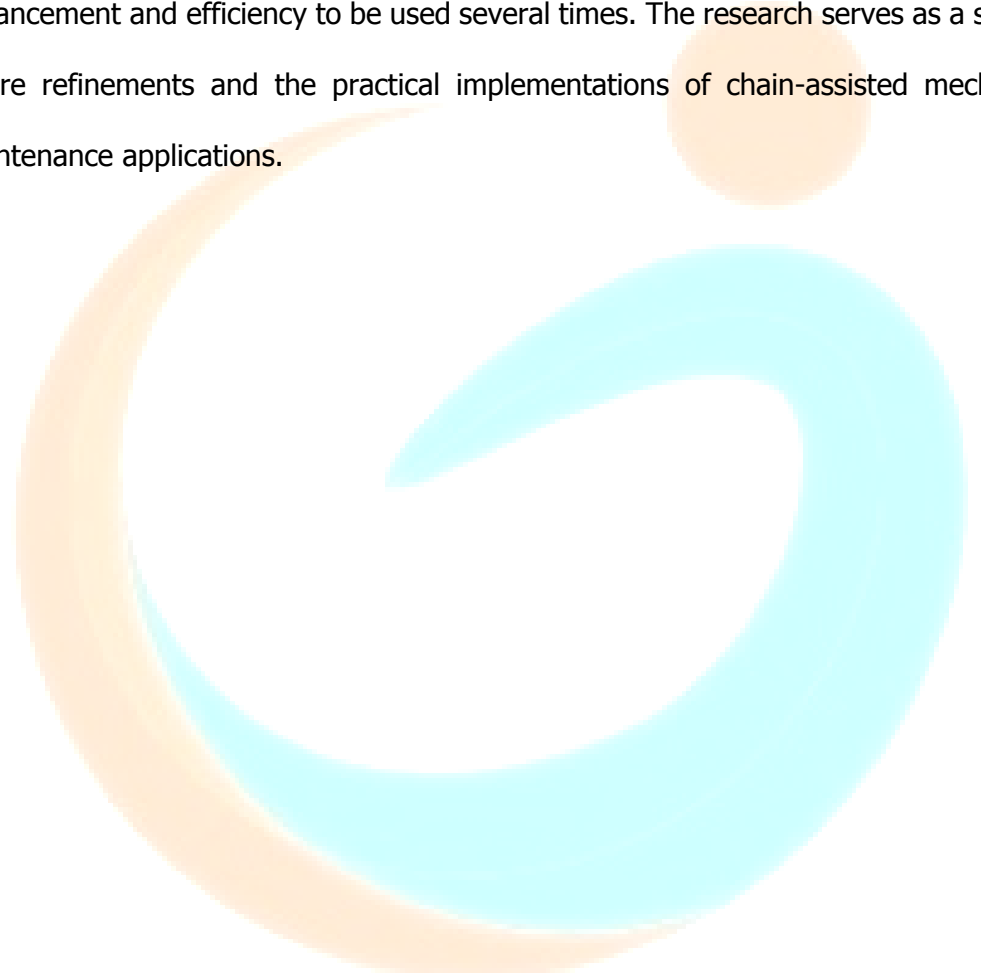
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efficient than the current state-of-the-art methods, as evidenced by the polishing speed and surface quality results detailed below. Moreover, the materials used for this design are found in local stores, offering a cheaper alternative to commercial floor polishers. However, this does not diminish its quality since the materials used are sturdy and durable, giving the design an advancement and efficiency to be used several times. The research serves as a stepping stone to future refinements and the practical implementations of chain-assisted mechanisms in floor maintenance applications.



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