

Research Article

Air Mouse

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Abstract: Generating unique concepts to suit the demands of professionals in the tourist business who travel for work. The emphasis is on giving them a multi-purpose tool, such as an air mouse that doubles as a wireless mouse and slide pointer. This tool is intended to not only serve the demands of the tourist industry but also to enhance hand physiology and reduce the likelihood of computer-related discomfort, such as carpal tunnel syndrome, by encouraging greater blood flow. Overall, the goal is to create a practical and ergonomic solution to improve the productivity and comfort of business travel in the tourist sector. An innovation aimed at providing a solution for people who value convenience and simplicity in their everyday lives. The innovation is a mouse with smooth movement and many functions that has yet to be commercialized. Furthermore, this product distinguishes itself from many others on the market by being created from reused materials such as ocean plastic garbage, which supports sustainable tourism. This idea is one of several recycling strategies that are assisting in environmental protection. The plastic waste is cleaned and converted into recyclable plastic resin granules, which are employed in the construction of the frame for the air mouse product. The device also says that it was designed to assist individuals suffering from Carpal Tunnel Syndrome. Overall, this idea provides an ecologically conscientious answer to a frequent technological dilemma while simultaneously encouraging sustainability and ergonomic design.

Keywords: Technology; Sustainable; Innovation.



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1. INTRODUCTION

This invention solves an issue for users who prefer something that makes their lives more manageable. Our goal is to provide goods in the shape of technology that does not limit the user's movement. This mouse has been extensively marketed in different types, but there is still no mouse that is used for multiple tasks. Aside from that, many technologies today do not emphasize sustainable elements in each of their inventions; thus, to balance the ecology and implement sustainable tourism, this Air mouse is also made from repurposed materials such as ocean trash such as plastic. This is one of the interactive recycling techniques that helps the environment. The collected plastic refuse is cleaned and converted into recyclable plastic resin granules. This repurposed pallet is combined during the development process of the substance that forms the frame of the air mouse product; additionally, as mentioned in the product's history, the invention of this product is an attempt to assist patients suffering from Carpal Tunnel Syndrome.

2. METHOD & MATERIAL

As mentioned before, Air Mouse Technology can benefit people, especially for business travellers or users such as lecturers that are mostly using slides or portable projector when delivering their speech to their audience. Air Mouse Technology has various functions that can help people to be more at ease when doing their job during the presentation or meeting. As we know, there are also various types of equipment that can make our presentation become easier to handle such as wireless presenter red laser pointer or pen laser that help us to control our slides during the presentation. The uniqueness about this Air Mouse Technology is that it is an equipment that work same as a glove which people can just put their hand with the glove and just make a movement with their hand freely while presenting. They do not have to control the mouse on the table that connects with other cables. They can move freely in the hall as well as can control the slides as they want by just moving their hand.

Furthermore, this product is manufactured from recycled materials, which are then processed into recycled resin pellets comprised of a tiny disc or cylinder-shaped particles a few millimetres in width. The manufacturing site remelts and shapes these pellets to create new products, from which this mouse frame emerges. In this way, we add sustainable aspects to this inventive creation. Furthermore, many users who work from home must carry all a laptop and cumbersome and exhausting paperwork, such as portable air mouse technology that only uses Bluetooth and is very light and simple to transport anywhere, which can make it easier for users rather than problematic. The mouse cursor is not wireless. Airmouse has a 2.4GHz connection, which provides a pleasant user experience; this glove-like shape fits easily in the hand even after prolonged use.

Finally, the Air Mouse feature is designed to help patients suffering from Carpal Tunnel Syndrome. According to our research, those who suffer from this condition because of repetitive motion, bad posture, and excessive pressure can profit from the elasticity of the Air mouse, which enables them to stretch their arms. As previously stated, using this Air Mouse is like wearing a glove; there is stimulation on the surface of the product, allowing this product to be one of the ways of physiology support that prevents the user's hands from feeling numbness, tingling, and cramp, which may end up resulting in permanent nerve and muscle damage if treatment is not sought. As a result, the Air mouse can decrease the probability of such events occurring.

3. FINDINGS

This air mouse technology is designed to be marketed to those aged 25 to 50 who suffer from carpal tunnel syndrome and muscular spasms to assist them be more active in their jobs while also making their work simpler. It is also promoted in the service sector, with a primary focus on the tourist and event and convention industries, initially in Malaysia and later abroad.

3.1 The Novelty of the Innovation

Sustainable tourism is a new approach to tourism that focuses on minimizing harmful effects on the environment and local populations. It entails encouraging tourists to participate in eco-friendly activities, supporting local businesses, and protecting natural resources. This new solution meets the tourism industry's rising concern for environmental conservation. It is also can aid in the treatment of carpal tunnel syndrome: Carpal tunnel syndrome is a hand and wrist ailment that is frequently caused by repeated hand motions or inadequate ergonomics. The innovation you described most likely includes features or design components aimed at reducing the incidence of carpal tunnel syndrome. This might include ergonomic considerations such as wrist supports or designs that alleviate hand and wrist strain during use.

Wireless technology; the addition of wireless technology marks a change from traditional wired electronic devices. By removing the need for physical connections, wireless devices provide improved convenience, mobility, and flexibility. This innovation allows for increased mobility and eliminates clutter, improving the user experience and opening new possibilities for device usage. Simple to install: The emphasis on simplicity shows that this invention is intended to be user-friendly and accessible to a wide variety of people. It eliminates obstacles to adoption by simplifying the installation process, allowing people to easily set up and operate the device without having specialised technical knowledge or abilities. Next, this feature emphasizes the innovation's energy efficiency. The gadget seeks to reduce power consumption and environmental effect by implementing energy-saving features. This can save customers money while also contributing to overall sustainability goals by lowering energy demand and greenhouse gas emissions.

Furthermore, the invention promotes environmental friendliness by taking into account the ecological effect of its lifespan. This might include employing environmentally friendly materials, decreasing waste creation, adopting recycling programs, or following environmentally friendly manufacturing techniques. The idea corresponds with the increased demand for eco-friendly products and services by prioritizing environmental sustainability with the innovation's adaptability, it may be used in a variety of venues, including meetings, conferences, classes, and more. This versatility enables users to use the device in a variety of professional and educational settings, assuring its usefulness across a wide range of professional and educational situations. The invention improves convenience and usability by catering to a wide range of demands and circumstances.

The new aspect of this innovation is its comprehensive approach to sustainability, usefulness, and flexibility. The innovation aims to provide a holistic solution that addresses multiple needs and concerns by incorporating features such as sustainable tourism practices, carpal tunnel syndrome reduction, wireless functionality, easy installation, energy-saving mechanisms, environmental friendliness, and versatility.

3.2 Sustainable Development Goals

This innovation's design meets the target 12.5 objectives of Sustainable Development Objectives 12 in responsible consumption and production. We certainly ensure that the invention has met the standards of sustainable consumption and production practices, lowering waste creation by 2020 through prevention, reduction, recycling, and reuse. Air mouse shell is an environmentally friendly design comprised of 20% recycled ocean plastic. A material technology breakthrough that begins with the elimination of plastic trash from seas and waterways. The indicator is based on the national recycling rate and tonnes of recycled material.

4. DISCUSSION

While developing this breakthrough, a conversation was held. There are various subtopics about this product and its technological future. The basic computer mouse notion should not be overstated. From a simple mechanical mouse with a single button to a complicated optical and laser mouse with many buttons and scroll wheels, mouse technology has advanced dramatically. This led to a discussion of major events in this history, such as the transition from ball-based to optical sensors, wireless networking, and the advent of gaming mice, all of which can provide insight into the area's ongoing advancements and breakthroughs.

The evolution of new technology influenced the design and operation of the mouse. Touch-sensitive surfaces and gesture recognition technologies, for example, have been added to the

contemporary mouse as a result of the introduction of touchscreens and gesture-based interfaces in smartphones and tablets. Furthermore, the mouse is a critical input device for operating system graphical user interfaces when integrated with operating systems and software, which prompted a discussion about how various operating systems such as Windows, macOS, and Linux have adapted to support advanced mouse features such as customizable buttons, sensor motion, and cursor acceleration to maximize mouse technology functionality.

Finally, we will look at possible future developments in mouse technology that may be interesting when contemplating emerging technologies and trends. This might involve looking at biometric mouse identification and haptic feedback integration for textile experiences to better cursor control and gesture recognition.



Figure 1. The logo of innovation

5. CONCLUSION

In conclusion, Air Mouse Technology is a stunning millennium breakthrough that provides a variety of benefits to various user groups. Its numerous uses serve students, educators, business owners, and those suffering from Carpal Tunnel Syndrome. This innovation boosts productivity and convenience in a variety of contexts by combining numerous functions into a single device. Furthermore, the emphasis on developing an optimal and sustainable solution demonstrates a dedication to environmental stewardship. Air Mouse Technology helps to preserve the health of our seas and the Earth by reducing solid waste thrown into the sea. This invention, in addition to its environmental impact, plays an important part in encouraging improved muscle, nerve, and general physiological health. The ergonomic design and features of the Air Mouse can provide comfort and better well-being to anyone suffering from Carpal Tunnel Syndrome or those looking to avoid it. To be conclude, the Air Mouse Technology is a ground-breaking breakthrough that combines functionality, sustainability, and health advantages. Its diverse contributions benefit users, the environment, and the planet as a whole, making it a significant achievement in the domain of technical innovation in this millennium.

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