

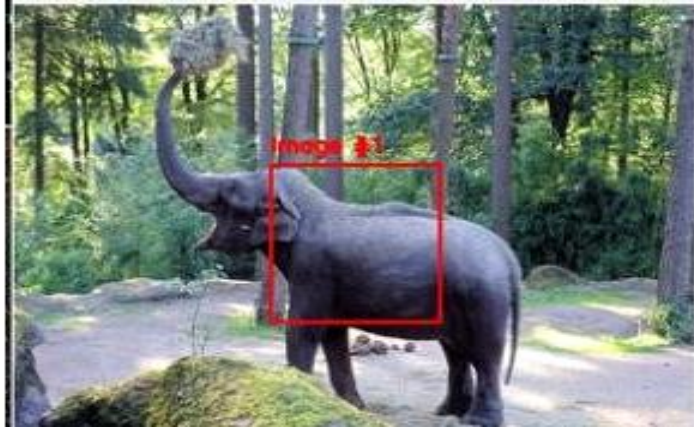


The Innovation:

Smart Border System using sensors and AI to detect elephants.

Significance of the Innovation:

Protects elephants by preventing train collisions and human-elephant conflict.

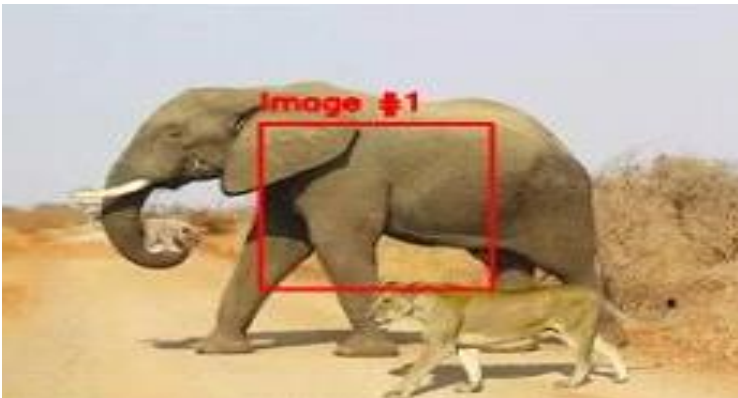


The Problem it Addresses:

High rates of elephant deaths from train accidents and human encroachment in Assam.

How Society Will Benefit:

Safeguards elephants and promotes biodiversity, while enhancing human-elephant coexistence.



Patent Number : 514247
Date of Grant : 22/02/2024



Assam
DON BOSCO UNIVERSITY



The Innovation:

A portable IoT device which could be utilised by the ASHA/Health workers to collect the regular effective parameters from pregnant women.

Significance of the Innovation:

Provides an affordable and portable solution for Healthcare, promoting inaccessibility of healthcare in rural areas.

The Problem it Addresses:

The continuous monitoring of a pregnant women and analyzing the vitals such as blood pressure, SpO2, temperature, heart rate and weight is highly crucial and would rule out possible maternal deaths due to emergencies.

How Society Will Benefit:

Hospitals and healthcare providers could be assisted with technology to keep a record of their patients and avoid the sudden complications arising in pregnant women.



**Assam
DON BOSCO UNIVERSITY**



Innovation:

3D-printed biodegradable bone scaffolds for bone regeneration.

Significance:

These scaffolds aid in bone regrowth while gradually degrading without harming surrounding tissues.

Problem Addressed:

They provide a solution for bone defects caused by tumors, allowing for precise, patient-specific bone regeneration.

Societal Benefit:

This innovation enhances recovery for patients with bone tumors, reducing complications and improving long-term outcomes through personalized medical treatment.

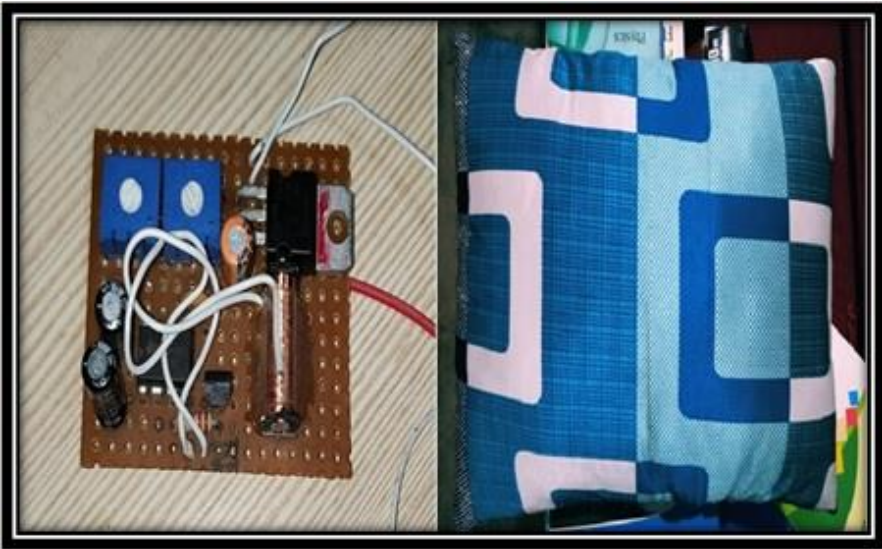


Patent Publication Number: 26/2024

Patent Publication Date : 28/06/2024



Assam
DON BOSCO UNIVERSITY



Innovation:

Smart Pillow: A Modern Aid for Sleeping

Significance:

It is designed to create a comfortable sleeping zone / ambience for the user based on his/her current biometric information.

Problem Addressed:

It provides a solution for sleeping disorders. It is an alternative to sleeping pills which are hazardous to health.

Societal Benefit:

This affordable solution will play a vital role as a clinical tool to aid sleep disorder patients providing better and healthy lifestyle because better sleep will lead to healthy life and healthy life to productive person.



**Assam
DON BOSCO UNIVERSITY**



The Innovation:

A high current generating portable folding solar panel and the method of its manufacture.

Significance of the Innovation:

The solar panel can be paper folded into a compact form.

The Problem it Addresses:

The transportation and storage of the solar panel is a challenge. Our innovation solves this problem.

How Society Will Benefit:

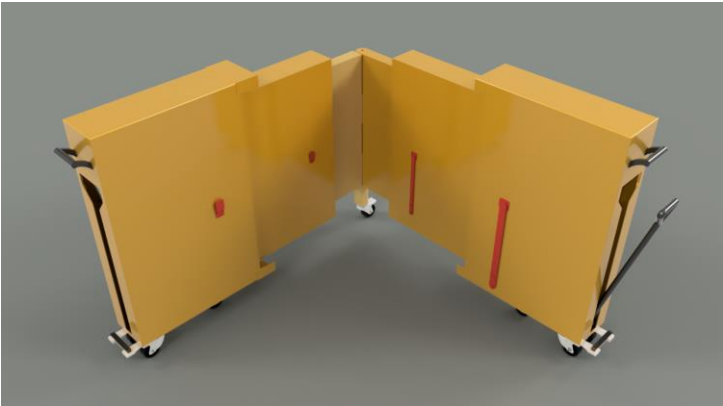
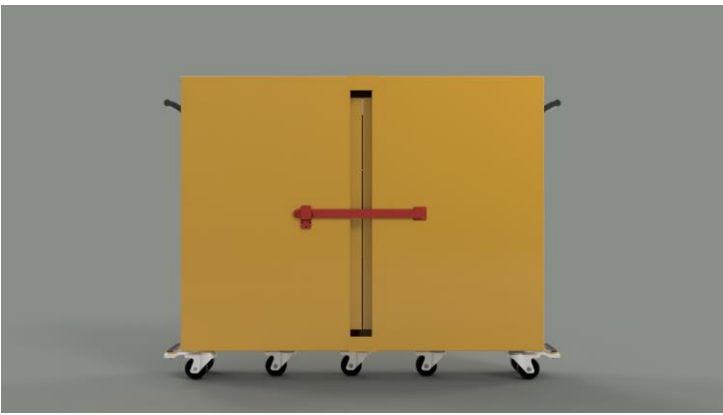
The innovation can be used in welding applications of civil constructions like flyovers, bridges without the need of generators and in remote areas where generator transportation and electricity availability is a concern.

Patent Publication Number : 202331083924

Patent Publication Date : 08/12/2023



**Assam
DON BOSCO UNIVERSITY**



Innovation:

Foldable traffic barricade system for enhanced road safety.

Significance of the Innovation:

Lightweight, portable, and easy to deploy, reducing strain on workers.

Problem Addressed:

Heavy, non-collapsible barricades are difficult to transport and deploy, leading to inefficiencies and ergonomic challenges.

How Society Will Benefit:

Improved road safety and traffic management through quick, easy deployment in emergencies, reducing accidents and traffic disruptions.

Patent Publication Number: 05/2024
Patent Publication Date : 02/02/2024



Assam
DON BOSCO UNIVERSITY



Innovation:

A tricycle-based delivery system designed for safe and ergonomic transportation of LPG cylinders.

Significance:

It reduces the physical strain on delivery personnel and ensures safer handling of highly flammable gas cylinders.

Problem Addressed:

Manual handling and transportation of LPG cylinders, which pose risks to both the delivery personnel and the public.

Societal Benefit:

This system enhances safety in LPG delivery operations, reduces the likelihood of accidents, and improves working conditions for delivery personnel.

Patent Publication Number: 36/2022
Patent Publication Date : 09/09/2022



Assam
DON BOSCO UNIVERSITY



Innovation:

Pedal-propelled tricycle with a lift-tipping mechanism for waste collection.

Significance:

It provides a cost-effective, eco-friendly, and ergonomic solution for household waste collection and disposal.

Problem Addressed:

Improper waste disposal methods that result in environmental and health hazards.

Societal Benefit:

This innovation promotes cleaner urban environments, reduces manual labor, and improves waste management efficiency in municipal areas.



**Assam
DON BOSCO UNIVERSITY**



The Innovation:

Low-cost cargo tricycle designed for traditional weavers and traders of Assam.

Significance of the Innovation:

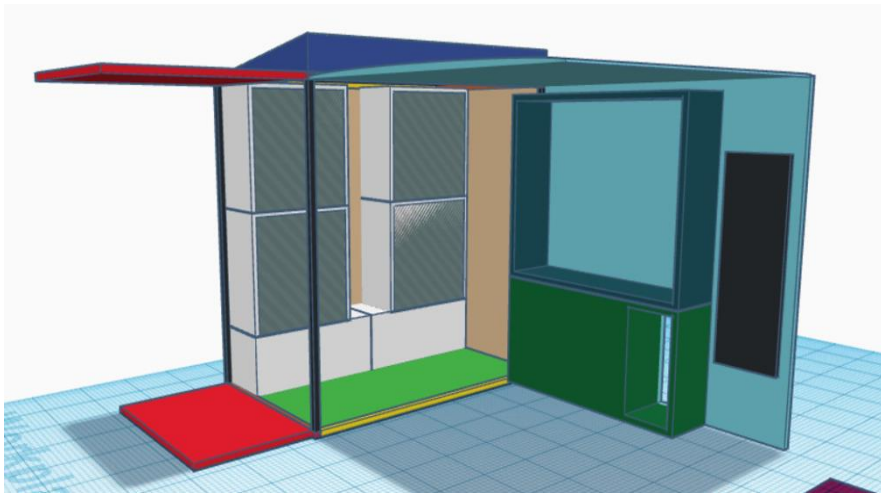
Provides an affordable and portable solution for small businesses, improving economic opportunities.

The Problem it Addresses:

Lack of affordable transportation and market access for small-scale weavers and traders.

How Society Will Benefit:

Boosts income and mobility for local artisans, promotes sustainable business practices, and supports the preservation of traditional crafts.



**Assam
DON BOSCO UNIVERSITY**