

# Technology Transfer

**Area of Technology:** Mechanical Engineering

**Title of the Innovation:** TREADMILL-ELECTRIC-CYCLE

**Patent Grant Number:** 355581

## **Brief About Innovation**

Exercise is an activity that improves the health and reduces the risk of many diseases in a human body. But in present scenario, people are too busy and they don't have time to perform exercises. There are many exercising equipment's in the market, among which bicycles and treadmills are very common and widely used for exercise to stay fit and healthy. Through normal bicycles one can only exercise the muscles of the legs and lower torso and exercise through treadmill increases the strength of the heart, reduces weight, and decreased insulin resistance. To perform exercise through such equipment's one has to purchase different equipment's. There are several prior arts that disclose the concept of treadmill along with bicycle.

## **Salient Features:**

- The present invention relates to exercise equipment having the features of treadmill, bicycle and e-bike. More particularly, a treadmill-electric-cycle that works on a chain arrangement through which it functions in three different ways.
- The present invention discloses a treadmill-electric-cycle that works as a treadmill, a bicycle and an e-bike separately as per requirement of the user. Generally, the present invention relates to exercise equipment that provides the features of a treadmill, a bicycle and an e-bike in a manner such that it also provides a portable treadmill which can be taken anywhere due its mobility. In one exemplary case, if someone is cycling and gets tired then at an instant he can use it as an E-bike. The people can use it according to their requirements.
- Preferably, the present invention is a multipurpose cycle that works as a treadmill, a bicycle and an e-bike as per requirement of user. The battery is connected in order to supply the power to motor. When the motor gets power, it runs the treadmill as well as the cycle, as treadmill and rear wheel of cycle are connected to motor via chain. The motor runs cycle and treadmill together at the same time (i.e., the cycle will move and rather than pedalling one will walk on treadmill).
- According to an embodiment of the invention, the user can use it as a treadmill, when the chain between motor and rear wheel of cycle is disengaged, the motor will run only treadmill (i.e., one can use it as a treadmill). In one exemplary case, If the user does not want to walk on

treadmill and wants to use it as an E-bike then the chain between treadmill and motor will disconnected and the motor will only run the cycle (i.e., one will stand still on treadmill and the cycle will move).

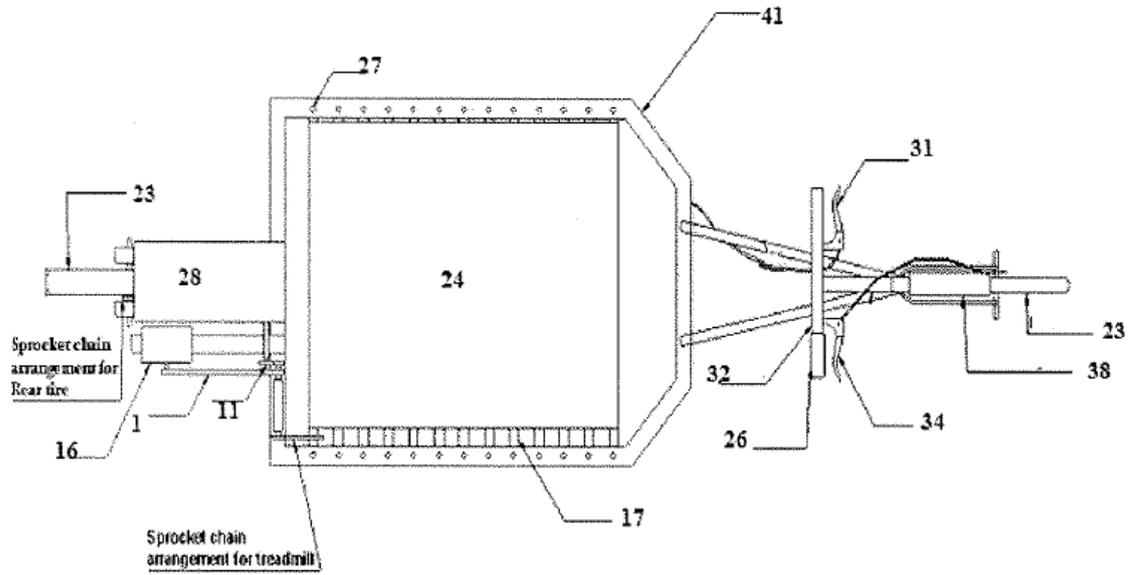


Fig. Treadmill-electric-cycle