

Name: Adebayo Ebunoluwa Favour

Name of School: Saint Bartholomew Secondary School Wusasa Zaria Kaduna State

Class: J. S.S III

If I could invent something new, I would invent a device that can transfer a patient from ordinary hospital beds to surgical beds and vice versa.

The process of transferring the patients from ordinary hospital beds to surgical beds and vice versa is really a long lasting challenge in medicine and surgery. Every health care center which deals with transferring the patients from one bed to another may be encountering this major problem. This problem is most pronounced in surgical and neurosurgical patients specifically with various degrees of cord injuries and multiple trauma, burned patients, orthopedic patients with disability and inability in movement, and with various degrees of weakness and disabilities and older patients with various degrees of paralysis and movement disorders.

This invention will be of great advantages and bring relieve to both the patient and the hospital workers because many patients with various degrees of Spinal cord injury need close care because a very small change in the alignment of the fixed spinal cord can cause a very dangerous consequence for them. Also the patients with various degrees of disabilities and such problems as mentioned above can have so many dangerous consequences for them. How can patients with such problems be transferred from one bed to another without causing any problem for them is motivator behind this invention.

## HOW IT WORKS

### **Stage 1**

At this stage the device can be seen as a whole. Grossly, the device contains some major parts from bottom to top include wheels, Main structure and Engine with some appendices.

### **Stage 2**

The device can be seen from another angle with a closer look, the device has a chassis on one side. When the chassis is being pushed down, a part of the device- which is responsible for elevating the patient from the bed- will come down to its lowest position

### **Stage 3**

After coming to the lowest possible position (which it is directly depends on the basic height of the patient's bed), the clamps will be attached and closed. After pushing up the chassis, this part of the device will go up and this time the patient will be elevated to the highest point

### **Stage 4**

So the alignment of the spinal cord will not be changed during this movement and the patient can be transfer without human force and with ease. After lifting the patient to the highest point, the patient can be transferred to another bed with wheels and then will be put on the other bed with the same mechanism. The important point regarding this method of transferring is that during the whole process of transferring, the patient is lying in a comfortable position and there would be no external force to apply during the process that may cause any damage to the patient.