

## STATEMENT OF CLAIMS

We Claim:

1. An AI and IoT enabled Smart Medicine Box:

Consisting of Medicine box with a plurality of compartments covered with single lid 101 and plurality of Medicine Monitoring Device (MMD) 102 along with microcontroller 103a; and

Medicine Monitoring Device (MMD) 102 is the integration of strain gauge 102b, Peltier module 102c, heat sink 102d, temperature sensor 101e, camera 101f and micro fan 102g; and

2. The device as claimed in claim 1 , integration of microcontroller 103a and camera by executing relevant machine learning algorithm (MLA) identifies the type of medicine by the ways of name or barcode and temperature required for the medicine in a particular compartment.

3. The device as claimed in claim 1 , microcontroller 103a in cor-ordination with strain gauge and relevant machine learning algorithm (MLA) identifies the quantity of the medicine present in each compartment; and

4. The device as claimed in claim 1 , wherein a microcontroller 103a can set medicine reminder in Blynk Mobile App based on user frequency of usage. Wherein user frequency of usage is predicted by a relevant machine learning algorithm.