

## YAW CONTROL MECHANISM FOR COMPACT UNMANNED TRICOPTER

### ABSTRACT OF THE DISCLOSURE

The yaw control mechanism for a compact unmanned tricopter with a pair of bearings, a servo  
5 compartment below the bearings in which the servo is housed, a rotor component mounted on top  
the pair of bearings, a large stationary gear fixed to the tail arm of the tricopter, closely by the  
bearings, towards the centre of the tricopter, and a smaller rotational gear attached to the servo,  
closely engaging the larger stationary gear. The servo drives the smaller gear, which then rotates and  
crawls on the larger stationary gear, resulting in the rotation of the bearings and all that are  
10 attached to them around the axis. All the components components forming this set of yaw control  
mechanism are calibrated to ensure proper centre of gravity so as to facilitated the maneuvering by  
this mechanism.

Figure 2



\*162162\*



\*G00001\*