When an AC voltage to a tube light fixture, the voltage passes through the choke, the starter and the filament of the tube. The filament light up and instantly warm up the tube. The starter is made up of a discharge bulb with two electrodes next to it. When electricity pass through it an electric arc is created between the two electrodes. This creates light. However, the heat from the tube causes one of the electrode Ca bimetallic strip to bend making contact with the other electrode. This stops the charged particles from creating the electrical arc that created light. However now that the heat from the light is gone, the bimetallic strip cools and bends away from the electrode, opening the circuit again. At this point the ballast or choke “Kick’s back” it’s stored current, which again pass through the filament and ignites the tube light once again. If the tube does not sufficiently charge up, subsequent kicks are delivered by the chock due to rapid switching of the starters. So that finally the tube strikes. A common problem associated with these types of fixtures is humming or buzzing the reason for this lies in the loosely fitted choke on the fixture which vibrates in accordance with the 50 or 60 Hz frequency of our AC mains and creates a humming sort of noise. Tightening the chokes screws may instantly eliminate the problem. In the present choke starter is absent, when AC voltage is applied to the tube light fixture as shown in figure 1 certain amount of voltage is dropped by the 100 watts lamp seriously connected to this. The remaining voltage is rectified by the bridge rectifier the capacitor are used to filter the ripple component rectified voltage. Thus the pure DC voltage is across the tube filament. The bulb will grow brightly and continuously. By off the circuit the capacitor in the circuit starts to discharge, so the circuit is difficult to on. Connected the resistance parallel to capacitor to reduce the time content. We can easily on-off the circuit. In this circuit no hamming buzzing starter flicker and noise.

Advantages of the product:
1. Cost is less
2. No transformer
3. No flicker
4. No starter
5. No noise
6. No hamming
7. No buzzing
8. Power con is only 25 watts
9. 25 watts power equal to 40 watts
10. Low power loss
11. Low heat loss
12. Instant-starting
13. Cheap and best
14. Power saving
15. Good performance
Figure 1: New Circuit for Electronics Choke for Tubelight