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10's second count down traffic light control apparatus for traffic Junction

ABSTRACT

In the present or conventional traffic light control apparatus, the motorists are unable to tell when the amber light is going to turn to red. Hence, the motorists are not sure as to whether to proceed or stop their vehicles when the traffic light is showing amber. In some cases, by stopping prematurely, it causes collision from the back or if a motorist drive pass the junction, he/she may commits a traffic offence for driving pass a red traffic light.

The 10's second counter down traffic light control apparatus ("the new apparatus") is to arrest the above problem. This new apparatus which embedded the 3 lights i.e. green, amber and red in a single opening and in some cases with green or red arrow, comes in a rectangle shape. It departs from the usual rounded shape with 3 separated light units of a conventional traffic light.

The novelty of this new apparatus are the changing of the light from green to amber and finally to red and its rectangle shape which embedded the 3 colour lights and in some cases, green or red arrow in a single housing. The new apparatus can be placed horizontally or vertically. The new apparatus uses Light Emitting Diode ("LED") and the front panel of each new apparatus has ten blocks of LED. When the traffic light is changing from green to red, a block of LED will switch off. This followed by the 2nd, 3rd, 4th blocks, until the 7th block when the remaining lighted green changed to amber. The aforesaid gives advance warning to motorist of the intended change and to allow them to take (depending on their speed and distance) the appropriate steps. The amber light continues to switch off from the 8th 9th and finally to the 10th block where the front panel will be completely blank for a second before it switches to red light.

The front panel of the new apparatus with green arrow to allow motorists to turn, operates quite similar to the above except that when it turns red, the green arrow will appear and it will blink for a while before the whole panel turns red. The new apparatus with blinking red arrow allowing motorists to turn when the traffic light is red, operates in the same manner as aforesaid.

Figure 1a - 11



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