Name-A.K.Patel
BE Mech. & Energy Auditor
v_gaudani@rediffmail.com

22

Steps No.	Step Description
1	Incandescent light bulb throws on inclined surface.
2	ILB strikes on arm of balance to move it downward.
3	Arm of balance lift upward and ball is triggered to run in tube.
4	Ball strikes on pad of handle, and handle activates & release the string.
5	Piston presses the water into cylinder.
6	A spray of water strikes on cup of spring and activates spring to compress.
7	Hand finger at end of spring lift from grove & the lever moves forward.
8	Open the contact and leave the weight bag.
9	Weight bag fall on balance arm to move arm downward.
10	Arm suddenly moves up and ball soot out.
11	Ball dump on arm of balance to move downwards.
12	Scissor arms activate and cut the string of balloon.
13	Weight fall down due to cut of the string.
14	Balloon lifts up one arm of balance.
15	Ball from arm of balance falls on inclined rack.
16	Jug tilt and water drain out.
17	Cup fills with water and start to move down.
18	Moving arm lift and open the contact with fixed arm, also leave the string.
19	Weight bag falls on handle end and activate it.
20	Bottom lever activate the ball to run on the rack.
21	Ball forces the door of the cage to open it and rabbit is free to run on the roller chain and activate it.
22	The free forward forcing hand comes out from the box and strikes hammer.
23	Hammer destroys the ILB.
24	Weight bag fall down and activate the gear arrangement.
25	Lever activates and opens the contact with upper lever.
26	Ball triggers and starts to run through slope of semi-circular rack.
27	Ball falls on the arm of balance and moves it downwards.
28	Ignition sticks moves downward and ignite the candle also push the opposite match pad.
29	Plunger activates and strikes the ball to fall it down.
30	Ball dumps on balance pan and activate the gear arrangement.
31	String lifts the rolling picture and shows a picture of energy awareness.

1.
The useful energy output from the incandescent light bulb is only **1-3 %** of energy in coal provided to power plant. There is possibilities to change in above figure because of it may vary due to type,size,manufacturer,shape and materials of incandescent light bulb.

2
The output of the compact fluorescent lamp is light and heat, among them light is only useful energy. Compact Fluorescent Lamp's useful energy output is ***10-15 %*** of the electricity input to it.

3
The energy lost on its way from coal to electricity consumed by CFL in various types and elements, as mentioned below:-
Energy losses in coal transportation & storage system, boiler & turbine and their auxiliaries, alternator,unit generator transformer, transmission lines , EHV transformers , distribution lines, distribution transformer , main switch , holder & fuse, service wires ,CFL chokes.
The major energy loss is occurred in the form of heat and wasted in the atmosphere.