TECHNICAL PROJECT REPORT

# Title of Invention / Project: Back Light Photo frame

# Team Members / Inventors:

|  |  |  |  |  |  |
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Section – 1 (IPR Related)

# Brief Abstract (500 words):

* Problem your project is solving

-Problem our project is solving is that , in a dark room or at night a photo frame is not at all visible , but our back light photo frame will solve this problem.

* How are you solving that (solution)?

We are solving this by making a back light photo frame . During Night we can switch it on and we can have a glowing photo frame

* Additional modifications that can cater to improved solution

We can make an auto intensity photo frame that is it will glow automatically in dark.

# Existing state-of-the-art and Drawbacks in existing state-of-the-art

# (*Brief background of the existing knowledge*)

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# **The picture frame with back light**

### **Abstract**

The subject relates to a frame provided with a back light.

A frame provided with a back light of the present design is printed on the film of transparent material which light is uniformly transmitted through the picture; Photo installation unit and the picture is fixed; It is located at the back of the photo installation portion, but irradiation at the back of the picture to be irradiated with light emitted from a fluorescent lamp with uniform brightness on the back.

Drawbacks:-

The incandescent Laguna fluorescent because it puts a relatively high temperature in the case to be installed in the small framed causing distortion of picture due to overheating and has a risk of fire.

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| **S. No.** | **Existing state of art** | **Drawbacks in existing state of art** |
| 1 | Incandescent Laguna fluorescent | Causing distortion of picture and excess heating of the photo frame |

# Novel/Additional modifications that you can propose to improve upon drawbacks

*By using led strips*

# Advantage:

There will be no heating loss which will further not affect the photo in the photoframe.

# Block Diagram

Section – 2 (Real Project)

# Materials:

# •A Wooden Photo frame

• A 9 volt battery

• White Led strips, Switch

• A Cutter, pins

•Photograph printed on Acrylic Paper

# Circuit Diagram:- Image result for circuit diagram of led strip

# Steps of Circuit Completion

Day 1

•We took the back side of the photo frame that is the wooden cover and started with the making of the circuit.

•We Pasted the LED strip gently covering maximum area so as to provide the photograph with the maximum light.

Day 2

•We completed our Connection by connecting the led strips with the battery, the Red wire to the positive side of the battery and Black wire to the negative side

•We connected the wires with the switch.

Day 3

• With the circuit been completed we went for the photo frame completion.

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