

ABSTRACT OF THE DISCLOSURE

A projection display apparatus employing organic EL elements is presented that is light in weight, is small in size, and can be practically implemented. In particular, the apparatus suppresses light-emission performance degradation caused by generated heat, thereby extending useful life, stabilizing brightness, and securing continual maximum brightness.

The apparatus comprises: liquid crystal panels 12R, 12G, and 12B; light emitting units 13R, 13G, and 13B, positioned at the back of the liquid crystal panels and provided with organic EL elements as light emitting layers; and cooling bodies 14R, 14G, and 14B, positioned at the back of the light emitting units, for dispersing the heat generated by the light emitting layers. The cooling bodies 14R, 14G, and 14B may, for example, be electronic cooling elements that employ the Peltier effect to absorb and radiate the generated heat. Alternatively, the cooling bodies may be configured as heat-dispersing fins that guide and disperse generated heat.



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