



METHOD FOR PREVENTING JUNCTION LEAKAGE

IN FIELD EMISSION DISPLAYS

ABSTRACT

5 A method for fabricating a field emission display
(FED) with improved junction leakage characteristics is
provided. The method includes the formation of a light
blocking element between a cathodoluminescent display
screen of the FED and semiconductor junctions formed on a
10 baseplate of the FED. The light blocking element protects
the junctions from light formed at the display screen and
light generated in the environment striking the junctions.
Electrical characteristics of the junctions thus remain
constant and junction leakage is improved. The light
15 blocking element may be formed as an opaque light absorbing
or light reflecting layer. In addition, the light blocking
element may be patterned to protect predetermined areas of
the baseplate and may provide other circuit functions such
as an interconnect layer.

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