

Abstract**A Field Effect Electron Emitting Apparatus**

A field effect electron emitting apparatus comprising a substrate, a plurality of wires embedded in the substrate, at least a portion of each wire being exposed from the substrate and extending generally perpendicularly therefrom and including magnetic material, wherein the average wire spacing is less than 30 μm , the average spacing height ratio is between 1 and 3 and the average wire aspect ratio is greater than 3. Also a method of manufacturing an electron emitting apparatus, a field effect display having such a field effect electron emitting apparatus, an illumination apparatus having such a field effect electron emitting apparatus, and a backlight apparatus for a liquid crystal display having such a field effect electron emitting apparatus.

Figure 10

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