

ABSTRACT OF THE DISCLOSURE

CONJUGATED ORGANIC MOLECULES FOR MOLECULAR ELECTRONIC DEVICES

[00182] There is provided a conjugated molecule that is useful as a conductive path in an electronic device. The conjugated molecule includes at least one p/n junction so as to provide a direction to electron flow and one end alligator clip group which allows for self-orientation of the molecule during assembly in a device, resulting in an asymmetric structure of the molecule. The conjugated molecule may be used in diodes, molecular switches, transistors, and in the manufacture of memory devices.

FIGURE 7