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(54) Title: THERMAL IMAGING PROCESSES AND PRODUCTS OF ELECTROACTIVE ORGANIC MATERIAL

(57) Abstract: Processes for effecting thermal transfer of electroactive organic material are disclosed wherein unwanted portions of a layer of electro organic material supported by a donor element are removed or transferred from the layer by thermal transfer, particularly laser-induced thermal transfer, leaving a desired pattern of the electroactive organic material on the donor element. The electroactive organic material may be an organic material exhibiting electroluminescence, charge transport, charge injection, electrical conductivity, semiconductivity and/or exciton blocking. The layer of electroactive organic material may comprise more than one layer of different types of electroactive organic material. The exposure pattern is a negative image of the desired pattern. The electroactive organic material of the desired pattern is not, therefore, exposed to the heat which can cause decomposition. The desired pattern of electroactive organic material may then be gently transferred from the donor element to a desired substrate by lamination, for example, without damaging the electroactive organic material. The substrate may be used to form organic electronic devices, such as light emitting displays, photodetectors and photovoltaic cells. Donor elements for use in the processes are also disclosed.



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