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Tan et al.

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(54) **FLEXIBLE SENSOR**

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(58) **Field of Classification Search**

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See application file for complete search history.

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(57)

ABSTRACT

A flexible sensor is provided. A further aspect employs a sensor apparatus including pressure or force sensing layers or sheets in addition to location sensing layers or sheets. In another aspect, an electrical sensing circuit and flexible films are used to sense pressure and/or location of a contacting object. In another aspect, a compressible polymer includes conductive particles therein such that the compressible polymer changes electrical resistance when compressed to indicate a force or location. Still another aspect has stacked sandwiches of pressure and/or location sensing films, layers or sheets.

23 Claims, 8 Drawing Sheets

