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Pavley et al.

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[54] **ENHANCED COMPOUND DOCUMENT PROCESSING ARCHITECTURES AND METHODS THEREFOR**

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[*] Notice: The term of this patent shall not extend beyond the expiration date of Pat. No. 5,644,208.

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[57] ABSTRACT

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[51] Int. Cl.⁶ **G06F 17/00**; G06F 15/163

A computer program product, which includes a computer usable medium having computer readable code embodied therein for processing data in a compound document. The compound document includes a plurality of embedded object editors for respectively rendering data having different interest types in different compound document content areas. The compound document further includes a plurality of editing controllers embedded in the compound document. The inventive computer program product includes computer readable program code configured to cause a computer to detect whether a selection is made in one of the data. Furthermore, there is included computer readable program code configured to cause the computer to effect the filling out of an auditor data structure with attributes of the selection by the object editor that is associated with the data in which the selection is made. The inventive computer program product also includes computer readable program code configured to cause the computer to communicate the attributes embodied in data fields of the auditor data structure from the above-mentioned object editor to selective interested ones of the editing controllers. In one embodiment, both the above-mentioned object editor and the interested editing controllers register with a data switching system to receive attribute data having an interest represented by the attributes of the aforementioned selection.

[52] U.S. Cl. **395/777**; 395/778; 395/793;
395/680; 395/682; 345/335

[58] **Field of Search** 395/145, 147,
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680; 345/335

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37 Claims, 12 Drawing Sheets

