

# EXHIBIT 4

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**Farber et al.**

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(54) **SIMILARITY-BASED ACCESS CONTROL OF DATA IN A DATA PROCESSING SYSTEM**

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**G06F 17/00** (2006.01)  
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See application file for complete search history.

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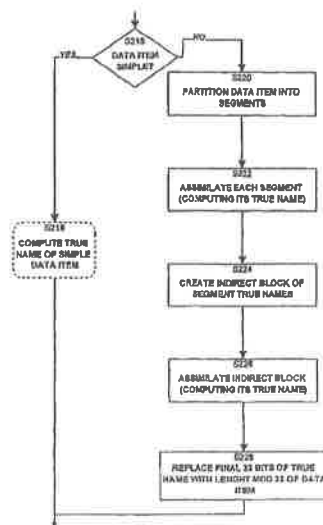
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(57) **ABSTRACT**

Similarity of data items is determined by analyzing corresponding segments of the data items. A function is applied to each segment of a data item and the output of that function is compared to the output of the same function applied to a corresponding segment of another data item. A function may be applied to the output of the functions. The functions may be hash or message digest functions.

**56 Claims, 31 Drawing Sheets**



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