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United States Patent [19]

Ogawa

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[54] **VERSION MANAGEMENT METHOD AND APPARATUS IN MULTI-WINDOW ENVIRONMENT**

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Related U.S. Application Data

[63] Continuation of Ser. No. 791,307, Nov. 14, 1991, abandoned.

[30] **Foreign Application Priority Data**

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[52] **U.S. Cl.** **395/157;** 395/160; 395/155

[58] **Field of Search** 395/157, 160, 155, 161, 395/159, 158, 156; 345/119, 120

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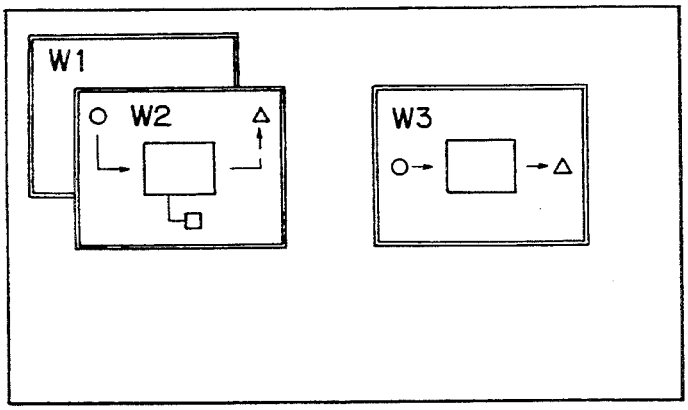
[57] **ABSTRACT**

The contents of a plurality of versions of a data file are displayed in respective windows on a display screen. Identifiers of parent windows, from which the windows are derived, and differential operation histories of the windows are stored in an operation history management table. The contents of the operation history management table are automatically renewed when a new window for a new version is generated and when the version of the data file is edited in a corresponding window. With this construction, comparison as well as reference between versions on the same display screen is possible.

28 Claims, 15 Drawing Sheets



W	Wp	DIFFERENCE
W1	—	—
W2	W1	add ○ add △ add □
W3	W1	add ○ add △