EXHIBIT A

US007447713B1

(12) **United States Patent**
Berkheimer

(10) **Patent No.:** **US 7,447,713 B1**
(45) **Date of Patent:** **Nov. 4, 2008**

(54) **SYSTEM AND METHOD FOR ARCHIVING AND OUTPUTTING DOCUMENTS OR GRAPHICAL ITEMS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 512 days.

(21) Appl. No.: **09/977,502**

(22) Filed: **Oct. 15, 2001**

Related U.S. Application Data

(60) Provisional application No. 60/240,179, filed on Oct. 13, 2000.

(51) **Int. Cl.**
G06F 17/30 (2006.01)
G06F 9/44 (2006.01)
G06F 3/048 (2006.01)
G06G 5/02 (2006.01)

(52) **U.S. Cl.** **707/204**; 707/202; 717/121; 345/600; 715/763

(58) **Field of Classification Search** 707/100–103, 707/104.1, 204, 202; 715/513, 528, 763; 358/1.1, 1.16, 1.18; 713/1; 717/121; 345/600
See application file for complete search history.

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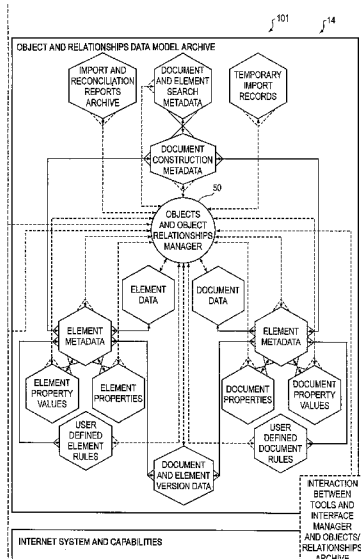
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(74) *Attorney, Agent, or Firm*—Wood, Phillips, Katz, Clark & Mortimer

(57) **ABSTRACT**

Systems and methods for translating document files to a common input format can then parse the elements of such documents into an object oriented document model with linking tags associated with each of the objects, element properties and element property values. The system and method also provide a capability to efficiently compare, reconcile, store, distribute and edit such object oriented components, elements, properties and/or values. Archived documents or graphical items can be recompiled and output in a predetermined, standard format.
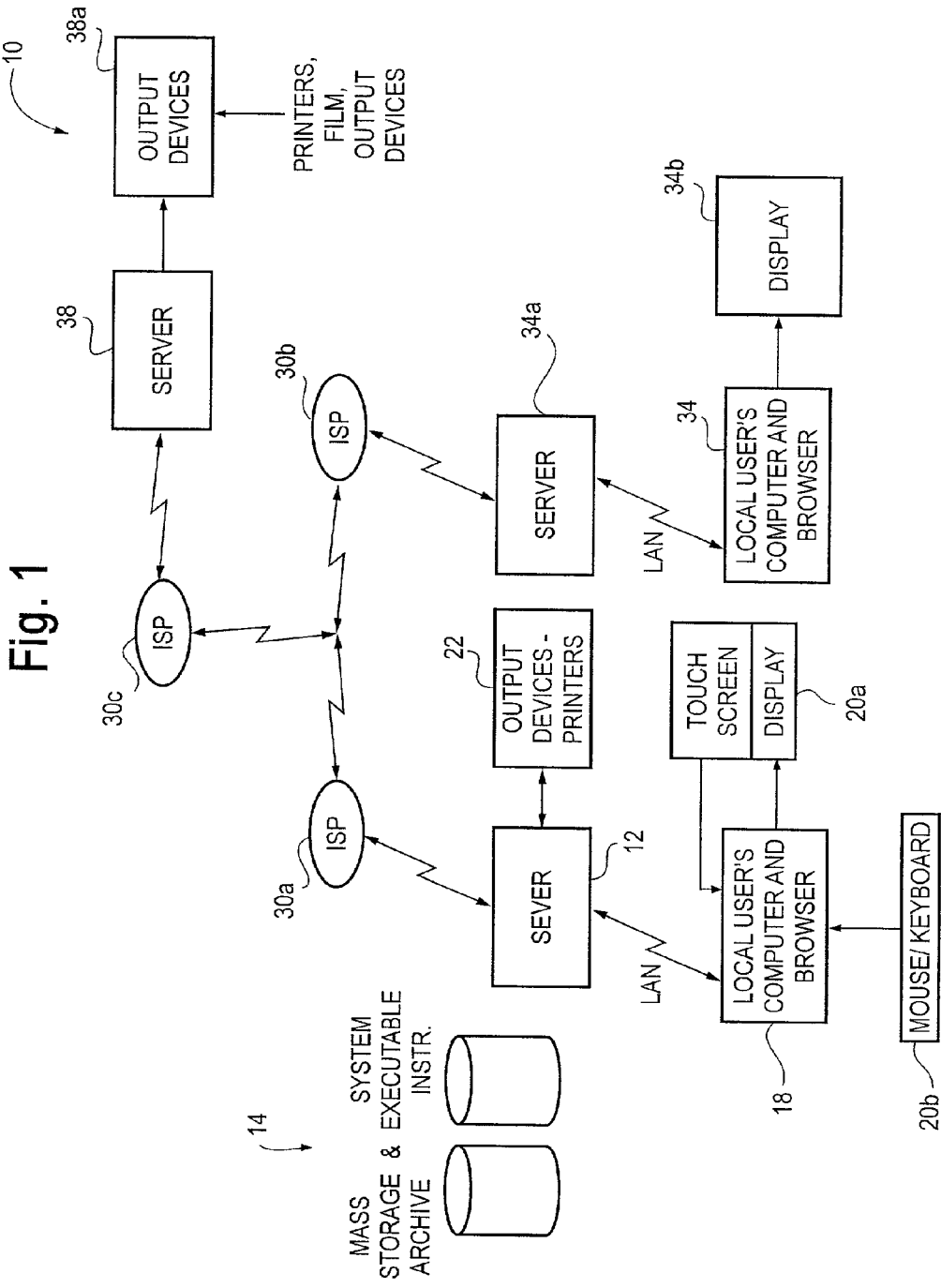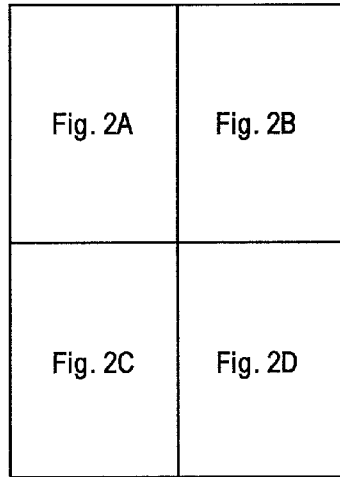
28 Claims, 9 Drawing Sheets

Fig. 1

Fig. 2

Fig. 2A	Fig. 2B
Fig. 2C	Fig. 2D

Fig. 2A

Fig. 2B

~101   ~14

OBJECT AND RELATIONSHIPS DATA MODEL ARCHIVE

IMPORT AND RECONCILIATION REPORTS ARCHIVE

DOCUMENT AND ELEMENT SEARCH METADATA

TEMPORARY IMPORT RECORDS

DOCUMENT CONSTRUCTION METADATA

50

OBJECTS AND OBJECT RELATIONSHIPS MANAGER

ELEMENT DATA

DOCUMENT DATA

ELEMENT METADATA

ELEMENT METADATA

ELEMENT PROPERTY VALUES

ELEMENT PROPERTIES

DOCUMENT PROPERTIES

DOCUMENT PROPERTY VALUES

USER DEFINED ELEMENT RULES

USER DEFINED DOCUMENT RULES

DOCUMENT AND ELEMENT VERSION DATA

INTERACTION BETWEEN TOOLS AND INTERFACE MANAGER AND OBJECTS/ RELATIONSHIPS ARCHIVE
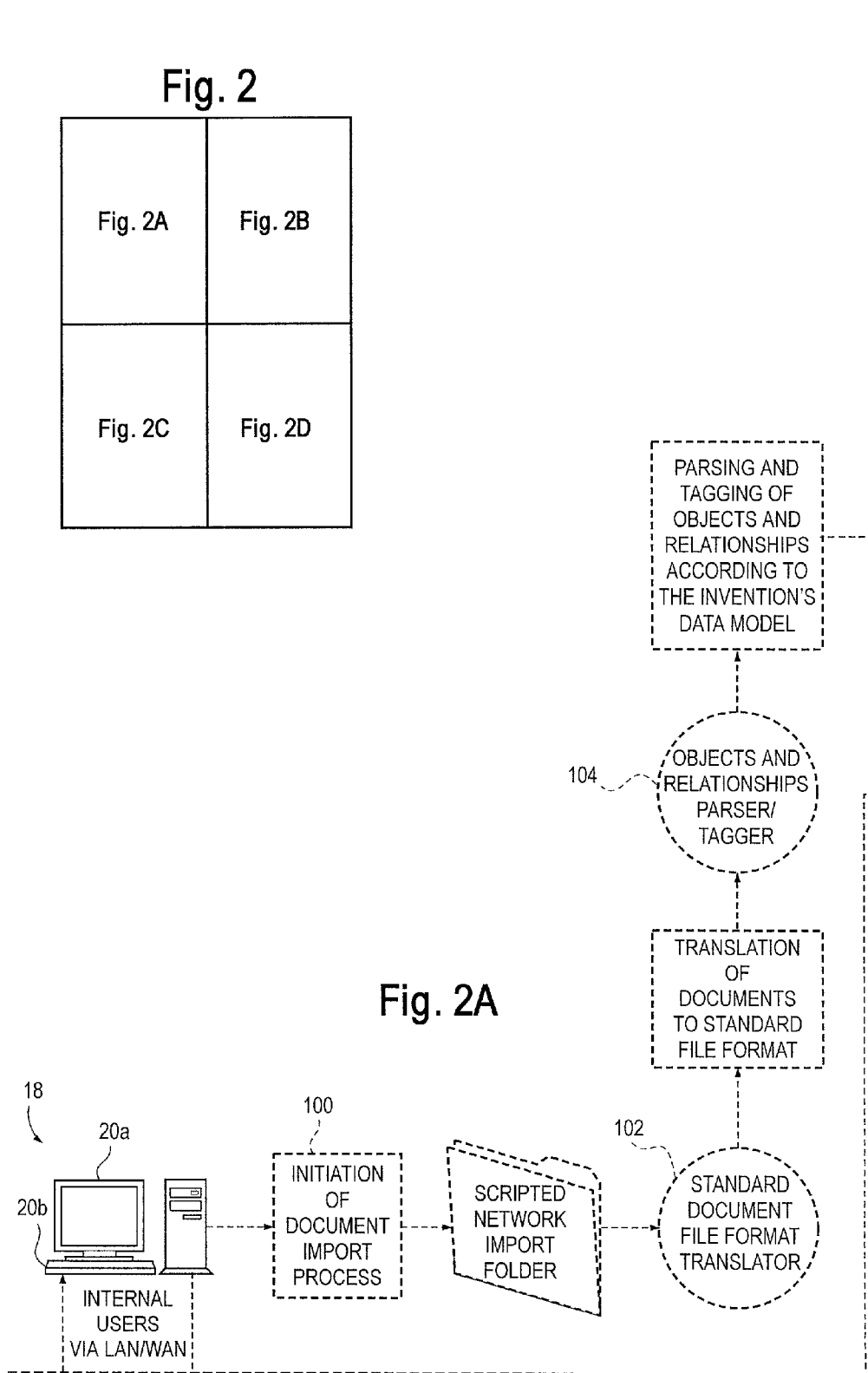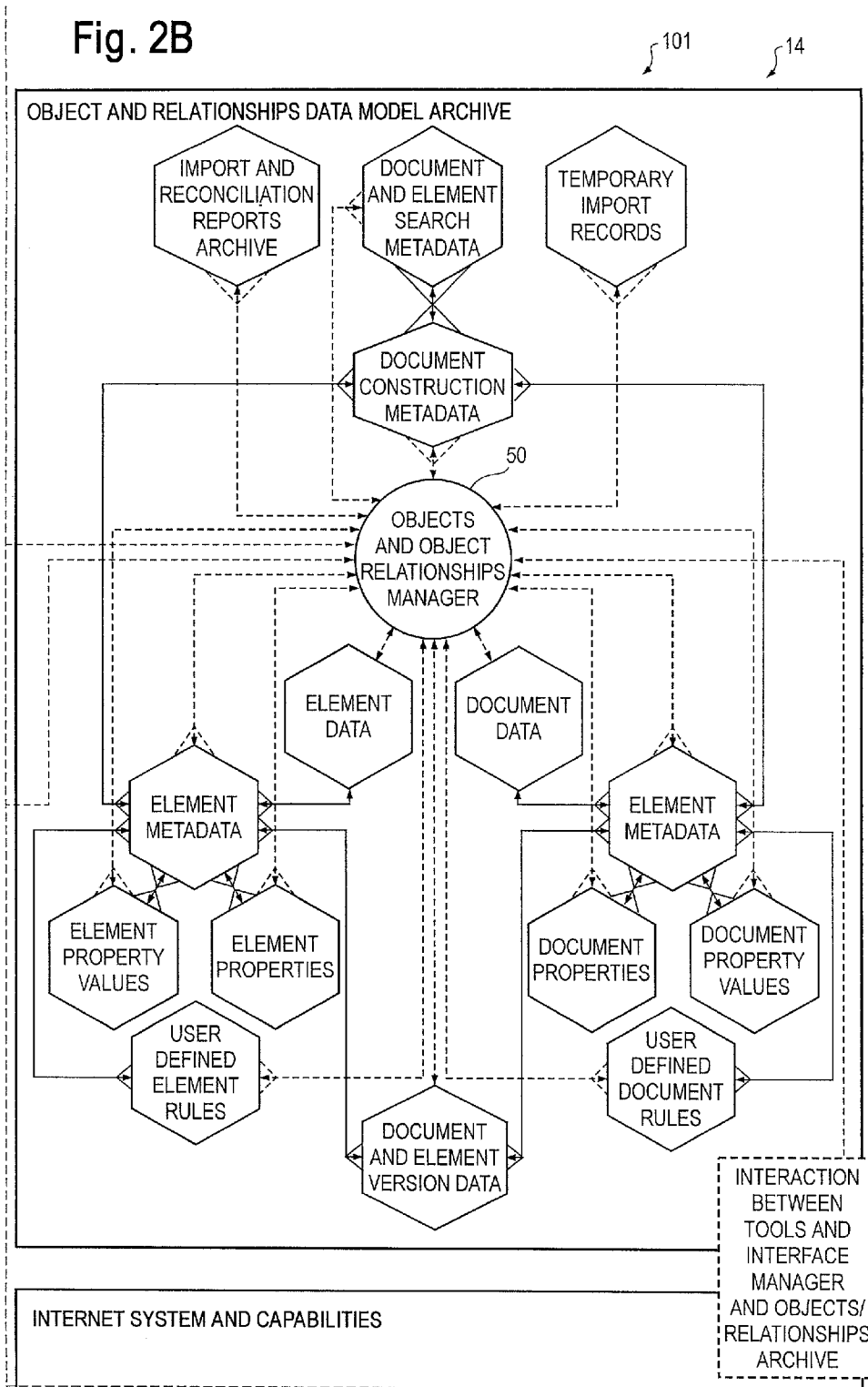
INTERNET SYSTEM AND CAPABILITIES

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