EXHIBIT A

(12) **United States Patent**
Boncyk et al.

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(54) **DATA CAPTURE AND IDENTIFICATION SYSTEM AND PROCESS**

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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 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **12/505,714**

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(65) **Prior Publication Data**

US 2010/0011058 A1   Jan. 14, 2010

Related U.S. Application Data

(63) Continuation of application No. 11/342,094, filed on Jan. 26, 2006, now Pat. No. 7,565,008, which is a continuation-in-part of application No. 09/992,942, filed on Nov. 5, 2001, now Pat. No. 7,016,532.

(60) Provisional application No. 60/317,521, filed on Sep. 5, 2001, provisional application No. 60/246,295, filed on Nov. 6, 2000.

(51) **Int. Cl.**
G06K 9/00   (2006.01)
(52) **U.S. Cl.** **382/165**

(58) **Field of Classification Search** 382/115–118, 382/162, 165, 170, 100, 181, 305, 224, 218; 348/239, 14.1–14.16, 211.2–211.6, 207.1, 348/460, 552; 707/1–7, 104.1; 705/26–27, 705/23; 455/414.2, 456.3, 556.1, 412.1, 455/556.2, 419; 709/201–203, 217–219, 709/250
See application file for complete search history.

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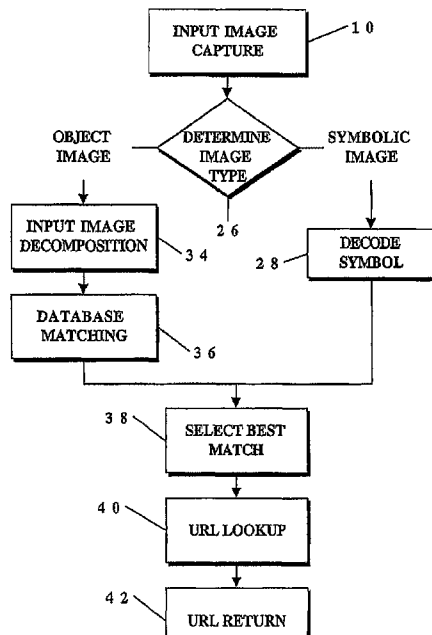|			
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(57) **ABSTRACT**

An identification method and process for objects from digitally captured images thereof that uses data characteristics to identify an object from a plurality of objects in a database. The data is broken down into parameters such as a Shape Comparison, Grayscale Comparison, Wavelet Comparison, and Color Cube Comparison with object data in one or more databases to identify the actual object of a digital image.
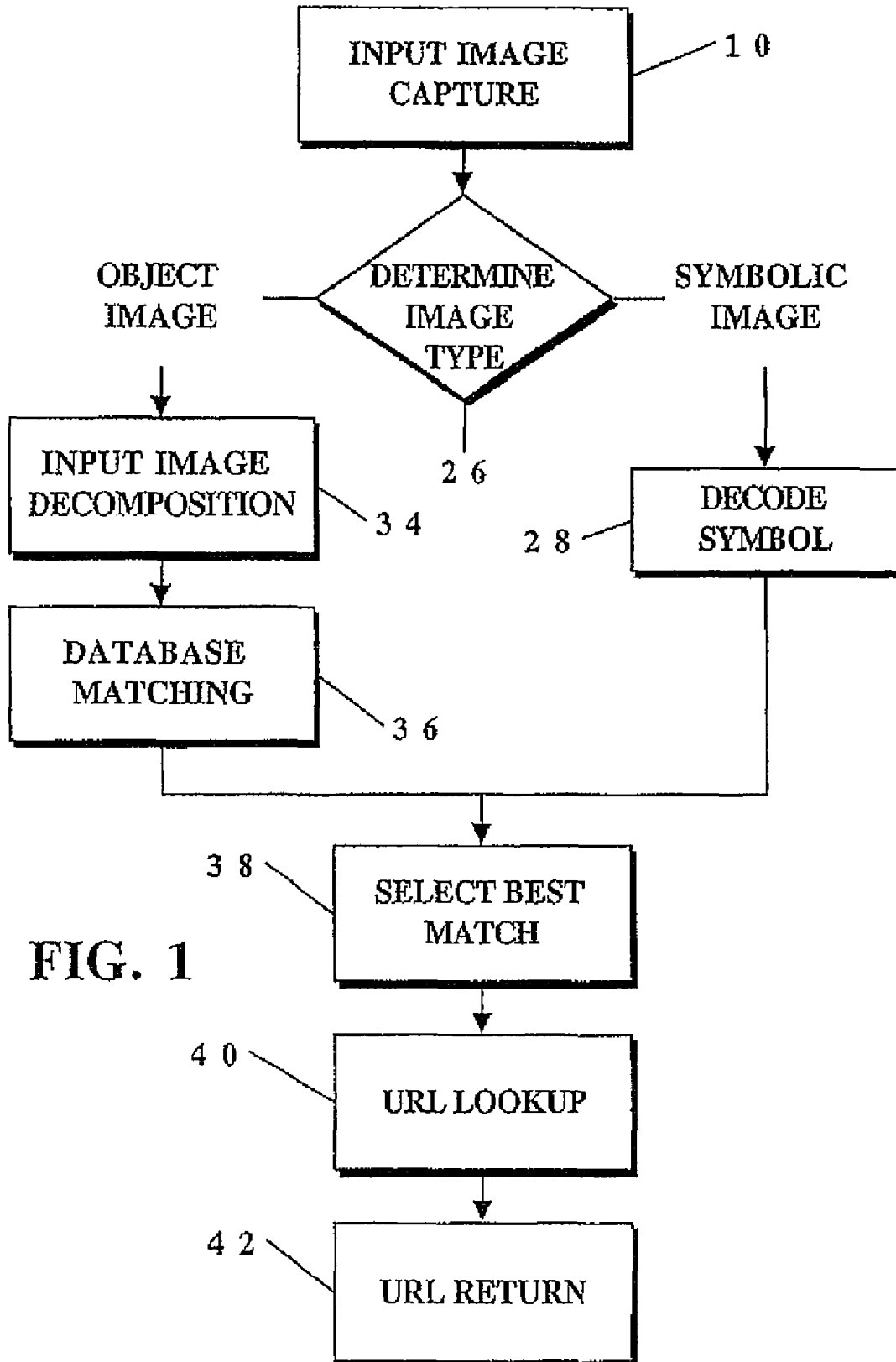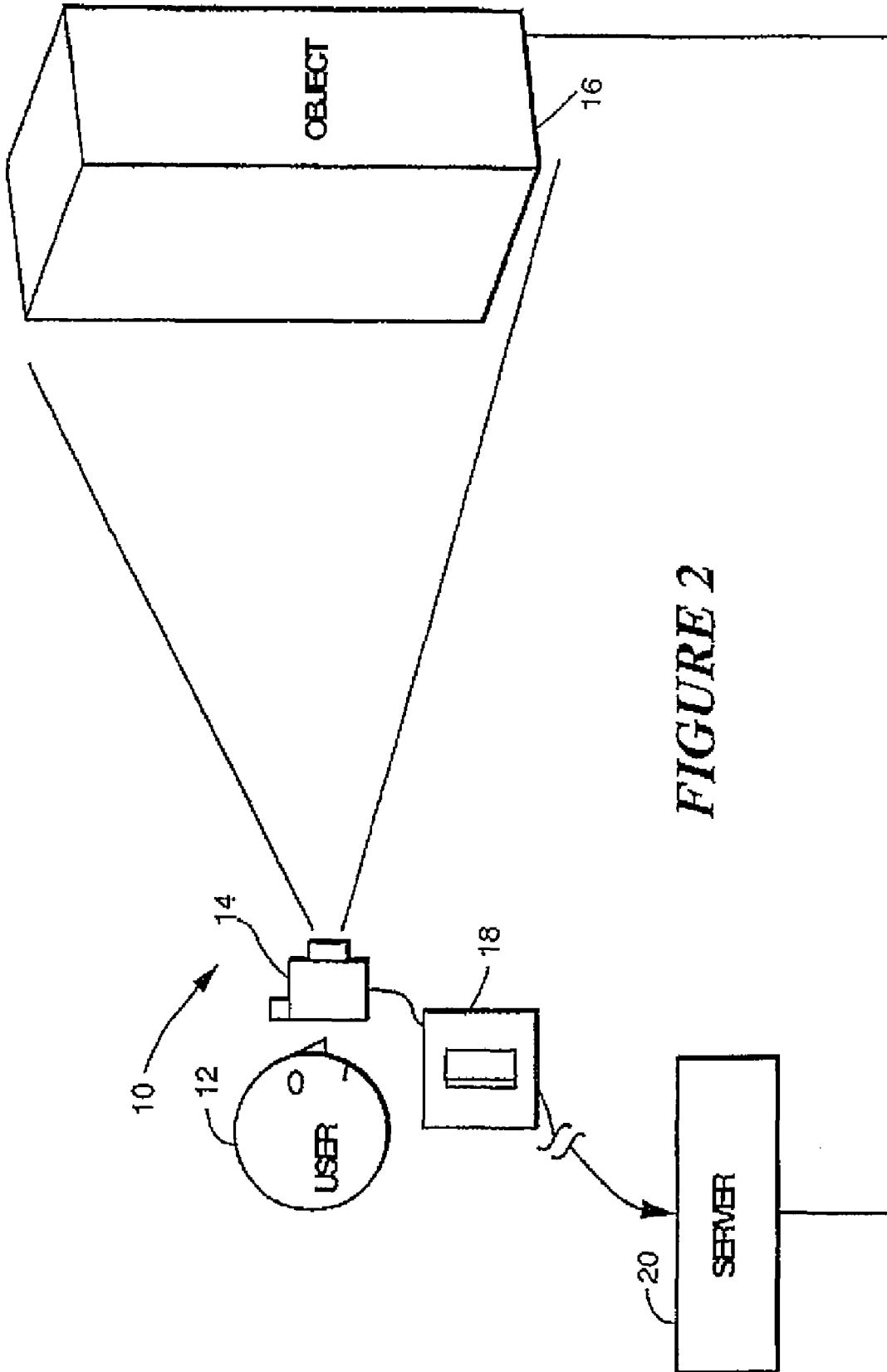
27 Claims, 4 Drawing Sheets

INPUT IMAGE
CAPTURE

1 0

OBJECT
IMAGE

DETERMINE
IMAGE
TYPE

SYMBOLIC
IMAGE

2 6

INPUT IMAGE
DECOMPOSITION

3 4

DECODE
SYMBOL

2 8

DATABASE
MATCHING

3 6

3 8

SELECT BEST
MATCH

FIG. 1

4 0

URL LOOKUP

4 2

URL RETURN

FIGURE 2

START

FOR EACH INPUT IMAGE
SEGMENT GROUP

FOR EACH OBJECT IN
DATABASE

FOR EACH VIEW OF THIS
OBJECT

FOR EACH SEGMENT
GROUP IN THIS VIEW

GREYSCALE
COMPARISON

COLORCUBE
COMPARISON

SHAPE
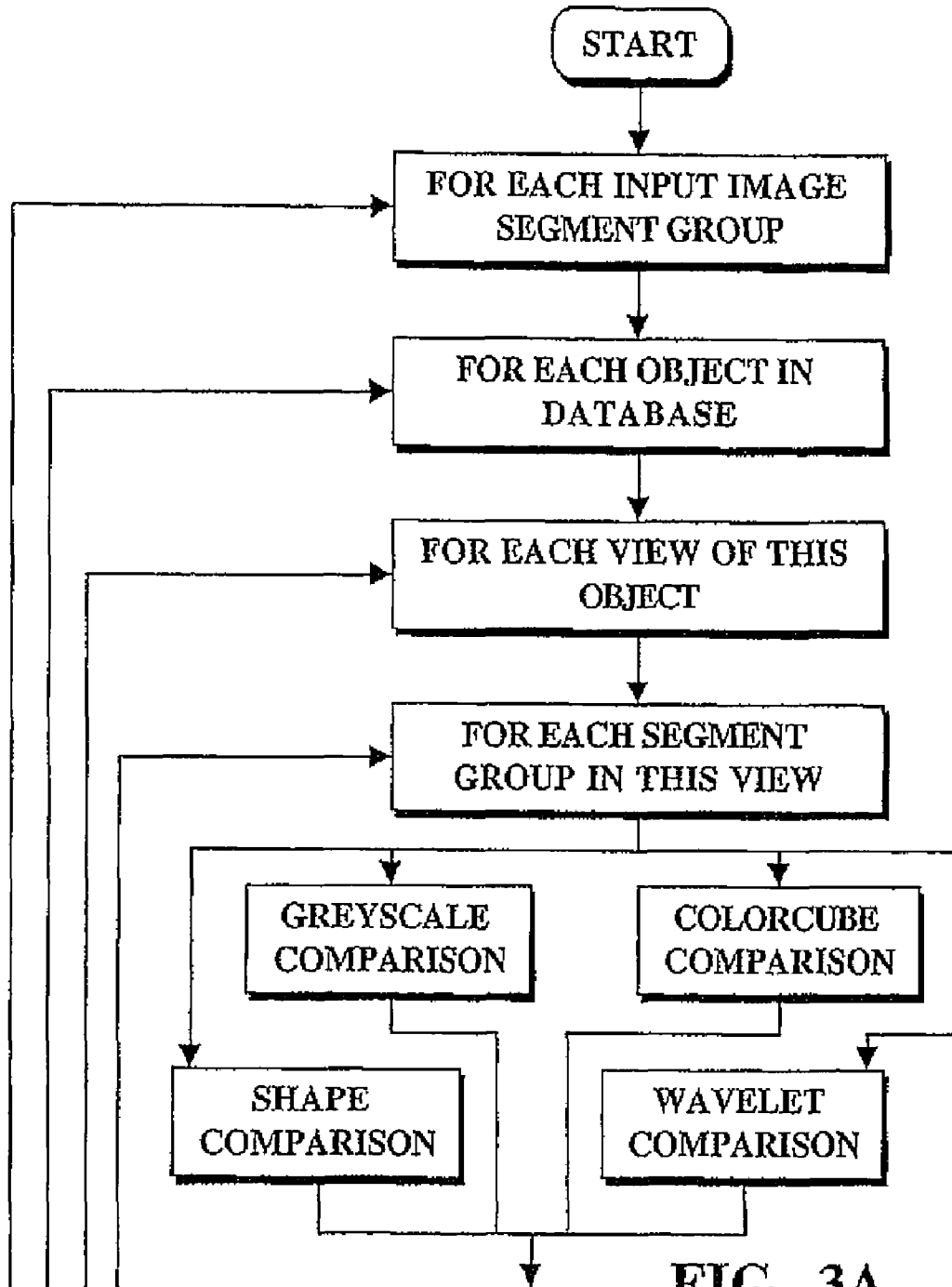COMPARISON

WAVELET
COMPARISON

FIG. 3A

DOCKET ALARM

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