

US005668897A

United States Patent [19]

Stolfo

[54] METHOD AND APPARATUS FOR IMAGING,

IMAGE PROCESSING AND DATA COMPRESSION MERGE/PURGE TECHNIQUES FOR DOCUMENT IMAGE

DATABASES

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[21] Appl. No.: 488,333

[56]

[22] Filed: Jun. 7, 1995

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 259,527, Jun. 14, 1994, which is a continuation-in-part of Ser. No. 224,273, Apr. 7, 1994, abandoned, and a continuation-in-part of Ser. No. 213,795, Mar. 15, 1994, Pat. No. 5,497,486.

[51]	Int. Cl.6	 G06K 9/36

317, 284; 358/435, 436

References Cited

U.S. PATENT DOCUMENTS

4,542,378	9/1985	Suganuma et al	382/284
4,953,229	8/1990	Abe et al	382/284
5,001,769	3/1991	Reid-Green et al	382/283

[11] Patent Number:

5,668,897

[45] Date of Patent:

Sep. 16, 1997

5,140,650	8/1992	Casey et al	382/283
5,182,656	1/1993	Chevion et al	382/284
5,204,756	4/1993	Chevion et al	382/284
5,394,487	2/1995	Burger et al	382/209
5,497,486	3/1996	Stolfo	395/600

FOREIGN PATENT DOCUMENTS

2263603 7/1993 United Kingdom 382/284

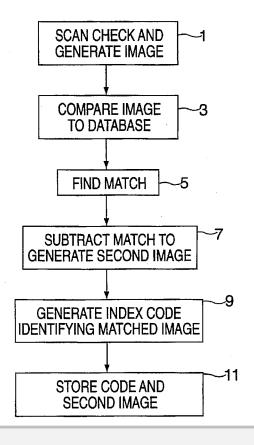
Primary Examiner—Jose L. Couso Attorney, Agent, or Firm—Mitchell A. Stein; Stein & Associates, P.C.

ABSTRACT

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A method for processing an image, consisting of a foreground and a background, to produce a highly compressed and accurate representation of the image, including the steps of scanning the image to create a digital image of the image, comparing the digital image against a codebook of stored digital images; matching the digital image with one of the stored digital images of the codebook; producing an index code identifying the background of the stored digital image as having matched the digital image; subtracting the stored digital image from the digital image to produce a second digital image representing the foreground of the stored digital image; and storing the second digital image with the index code. Techniques are also provided to enable merge/purge of the database(s) thereby created.

18 Claims, 18 Drawing Sheets





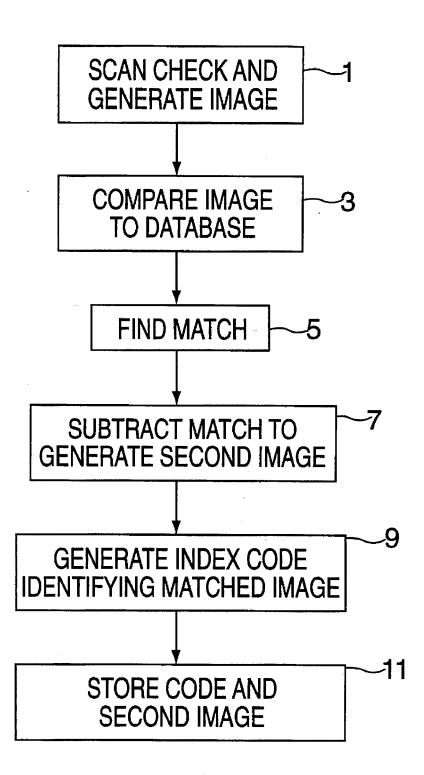


FIG. 1



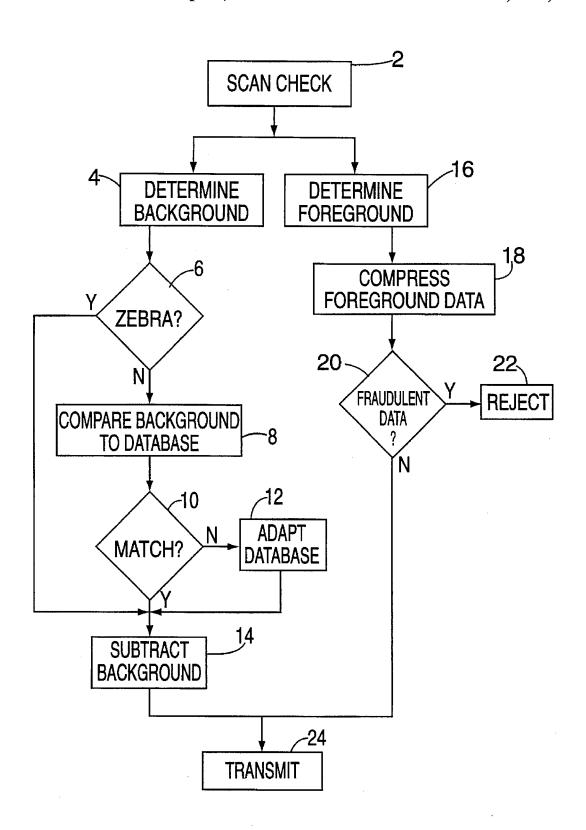


FIG. 2



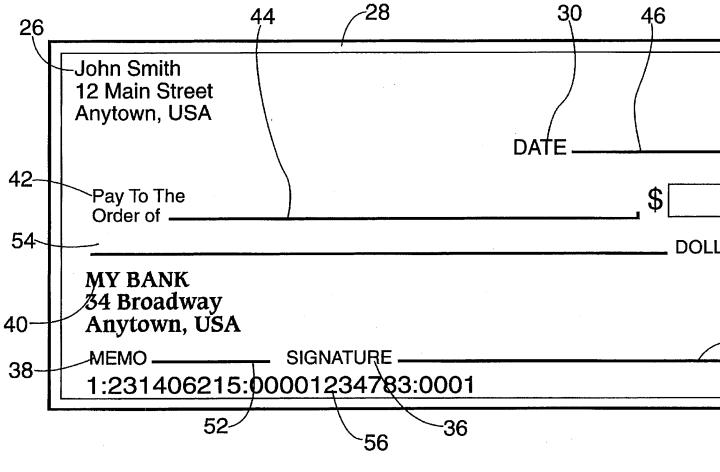


FIG. 3

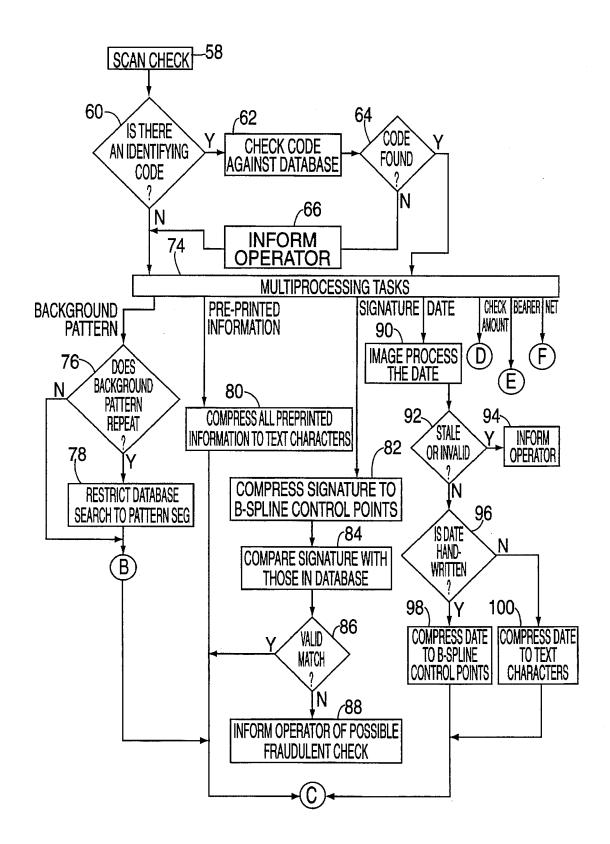


FIG. 4



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