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Owens et al.

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(54) **REGISTRATION AND MAINTENANCE OF ADDRESS DATA FOR EACH SERVICE POINT IN A TERRITORY**

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(73) Assignee: **United Parcel Service of America, Inc.**

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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 299 days.

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(21) Appl. No.: **12/270,665**

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Related U.S. Application Data

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(63) Continuation of application No. 11/342,041, filed on Jan. 27, 2006, now Pat. No. 7,542,972.

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(57)

ABSTRACT

(51) **Int. Cl.**
G06F 17/30 (2006.01)

A computer system and method is disclosed for mining current and archived address data in order to identify a preferred address for each service point in a territory. The data mining system may start in response to the presentation of a candidate address for matching. The set of mined data may be prioritized by clustering like characteristics, building similarity matrices, and by constructing dendrograms with nodes joined according to common characteristics. A computer system and method for maintaining a central database of preferred addresses is also disclosed. Selected address data gathered in a queue may be scored by characteristic, grouped by consignee location, and staged for processing. The scored queue of data may be prioritized by clustering like characteristics, building similarity matrices, and by constructing dendrograms.

(52) **U.S. Cl.** 707/776; 705/400

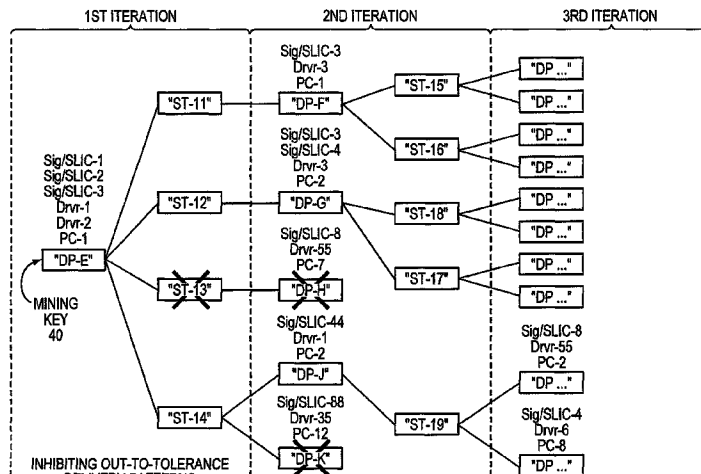
(58) **Field of Classification Search** 707/776,
707/758, 769, 770, 773; 705/1
See application file for complete search history.

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18 Claims, 62 Drawing Sheets



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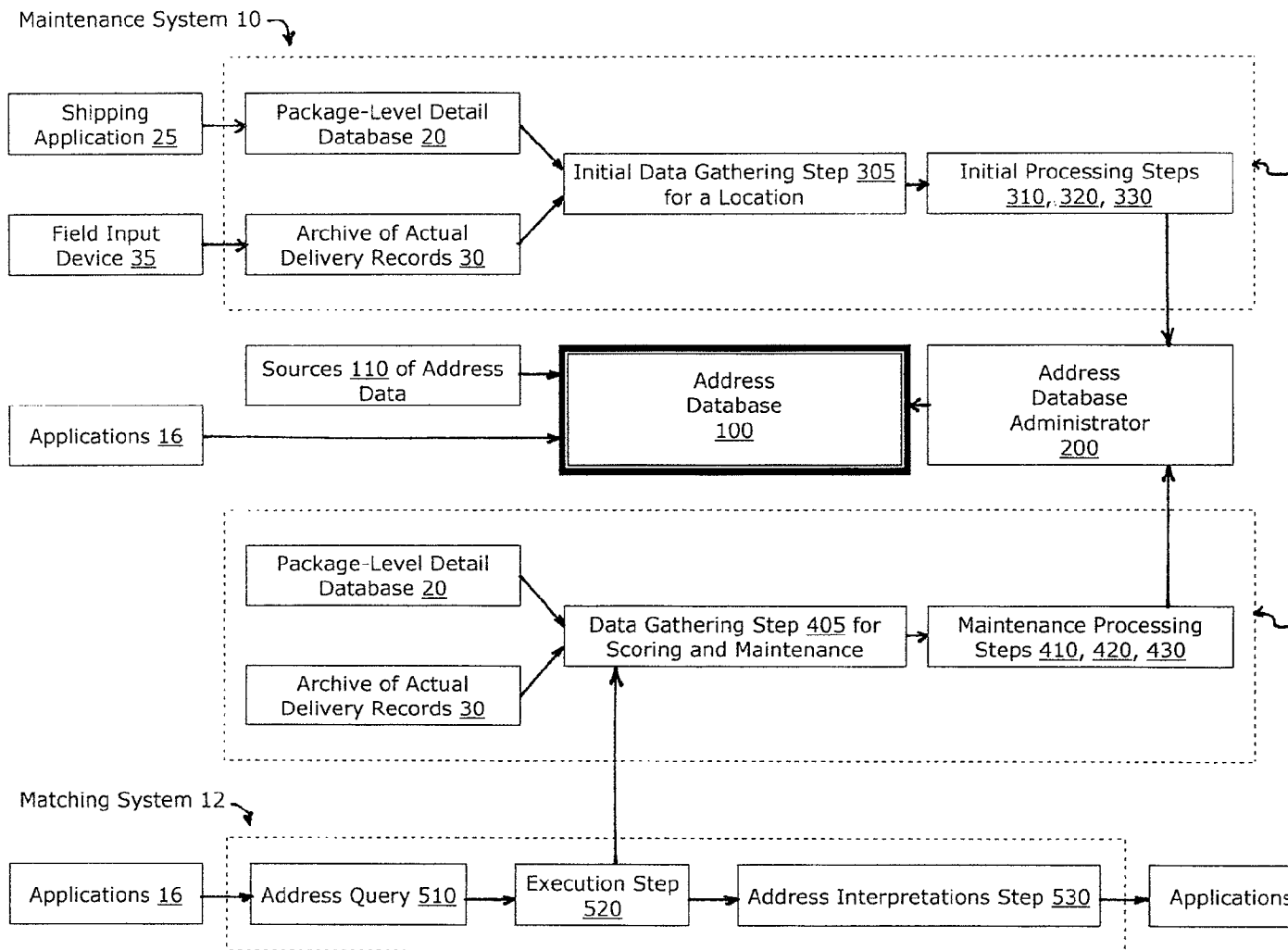


Fig. 1

AMS Database Administration

Customer Registration Information

Company Name:	Costco Connection	
Receiving Location:	Brookstone Store 25	
Address:	3333 Bristol Street^South Coast Plaza Mall^Costa Mesa, CA 92626^	
Location Configuration:	Multi-Tenant Shopping/Strip Mall	Reg. Date:
Comments:	This consignee also receive packages for Brookstone Store number 15	Mining Status:
Deferral Reason:		Status:
		4-Mining Complete
		Pending

Match Date	False Positive
Projected: 16.51%	Projected:
Current: 0.0%	Current:

Minimum Expected Match Rate

0 2 390 845 7 7

Grouping Cont:

Join Reason: Co-Delivered
 Most common combination ^800^LAKE^DR^^ISSAQUAH^98027^^US^ ,CHRISTENSEN, D, BURBANK (1%)
 Most common recorded Delivery Address ^999^LAKE^DR^^ISSAQUAH^98027^^US^(57%)

Join Reason: Most common combination
 Most common recorded Delivery Address

Sub Group Action: Grouping Confidence: Outcome:

+ V 1	COSTCO^SEAN MCCENERNEY^999 LAKE DR^^ISSAQUAH^WA^98027	A-Add
+ V 1	COSTCO^QUALITY ASSURANCE DEPARTMENT/SHER^900 LAKE DRIVE^^ISSAQUAH^WA^98027	A-Add
+ V 1	COSTCO^BECKY S^1045 LAKE DRIVE^^ISSAQUAH^WA^98027	A-Add
V 1	COSTCO^ATTN ALLEN WEBSTER^1045 LAKE DR^^ISSAQUAH^WA^98027	A-Add
V 2	COSTCO^BECKY SCHMIDT^1045 LAKE DR^^ISSAQUAH^WA^98027	A-Add
+ V 1	COSTCO^CORPORATE OFFICE^999 LAKE DRIVE^^ISSAQUAH^WA^98027	
+ V 1	COSTCO^CORPORATE OFFICE^COSTCO CORPORATE OFFICE^999 LAKE DR^^ISSAQUAH^WA^98027	
+ V 1	COSTCO WHOLE^^999 LAKE DR^^ISSAQUAH^WA^98027	
+ V 1	COSTCOWHOLESA^^ATTN:MICHELLE HUSHBY^SMALL ELECTRICS^999 LAKE DRIVE^^ISSAQUAH^WA^98027	

Unit of Work loading complete

FIG. 2

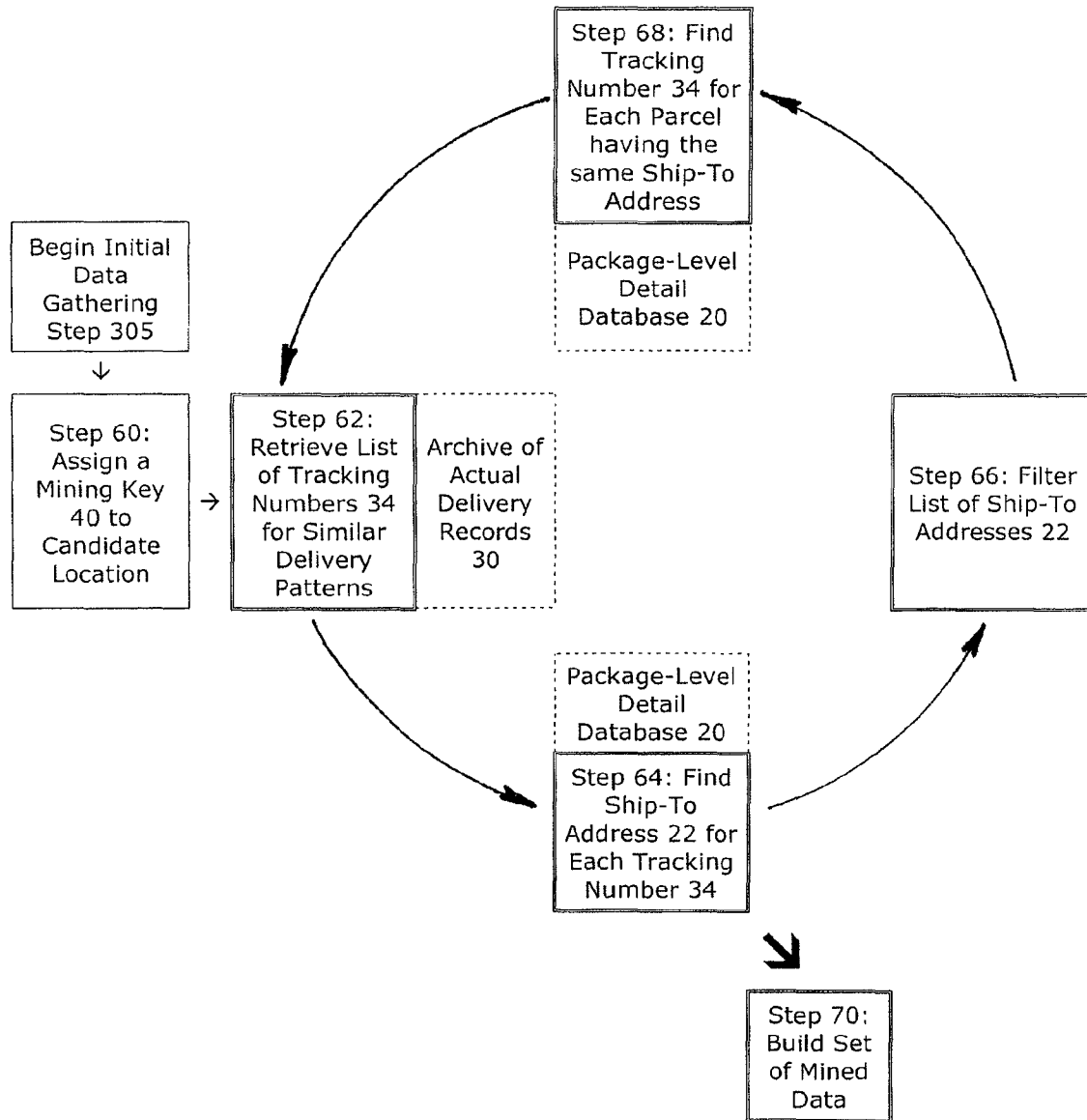


Fig. 3

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