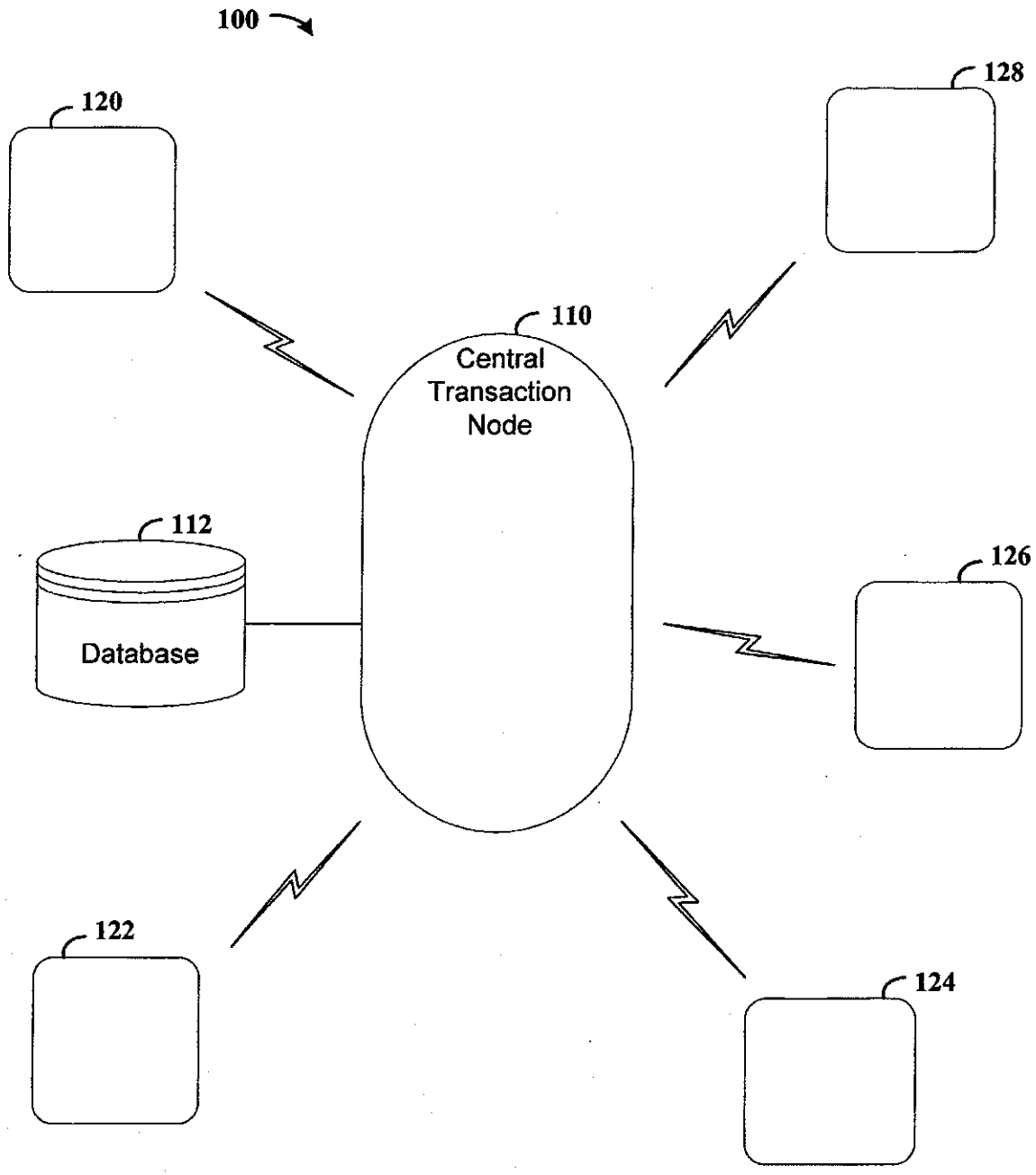

100
120
128
110
Central
Transaction
Node
112
Database
126
122
124

FIG. 1

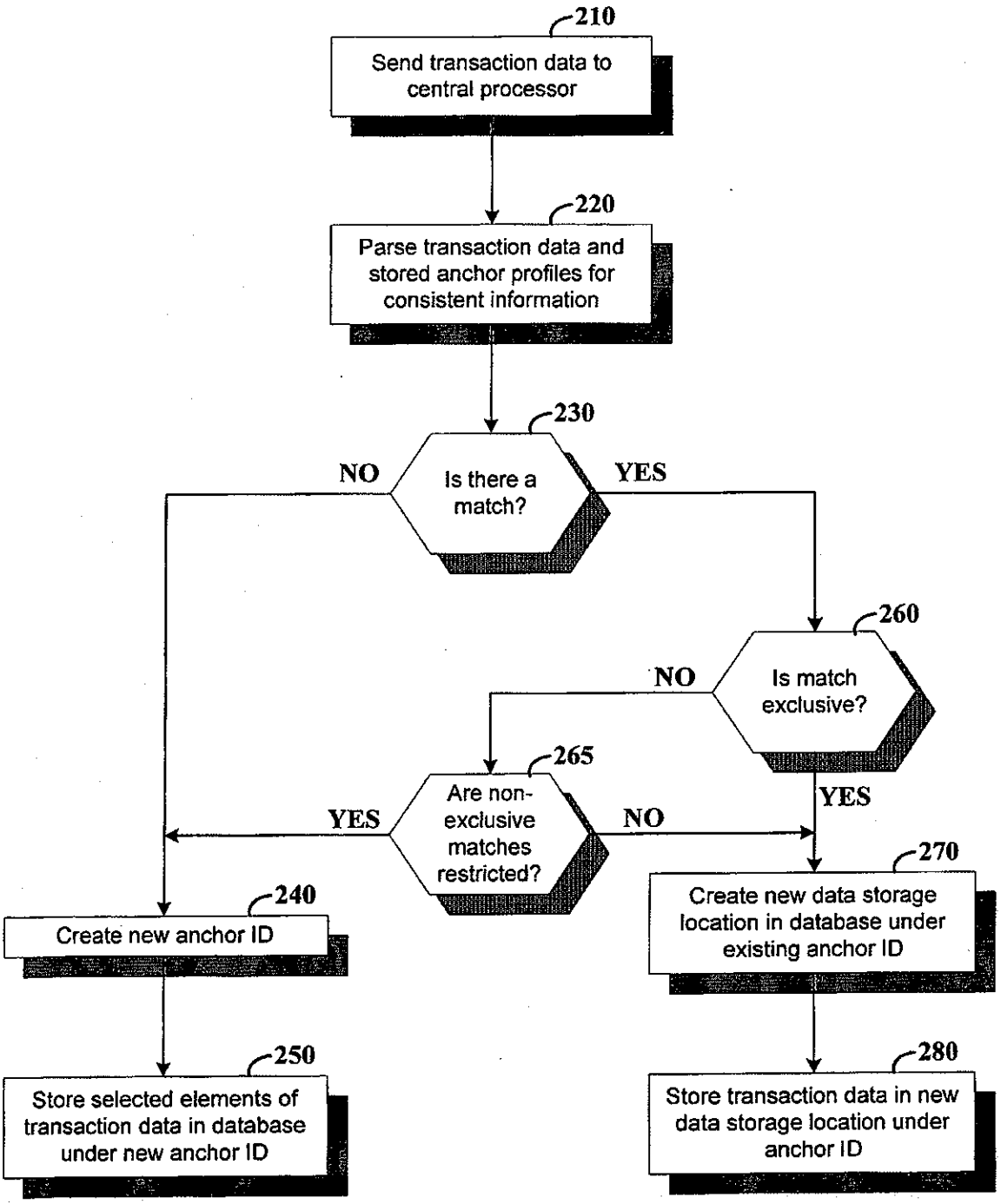

210
Send transaction data to central processor
220
Parse transaction data and stored anchor profiles for consistent information
230
Is there a match?
NO
YES
260
Is match exclusive?
NO
YES
265
Are non-exclusive matches restricted?
YES
NO
240
Create new anchor ID
250
Store selected elements of transaction data in database under new anchor ID
270
Create new data storage location in database under existing anchor ID
280
Store transaction data in new data storage location under anchor ID

FIG. 2

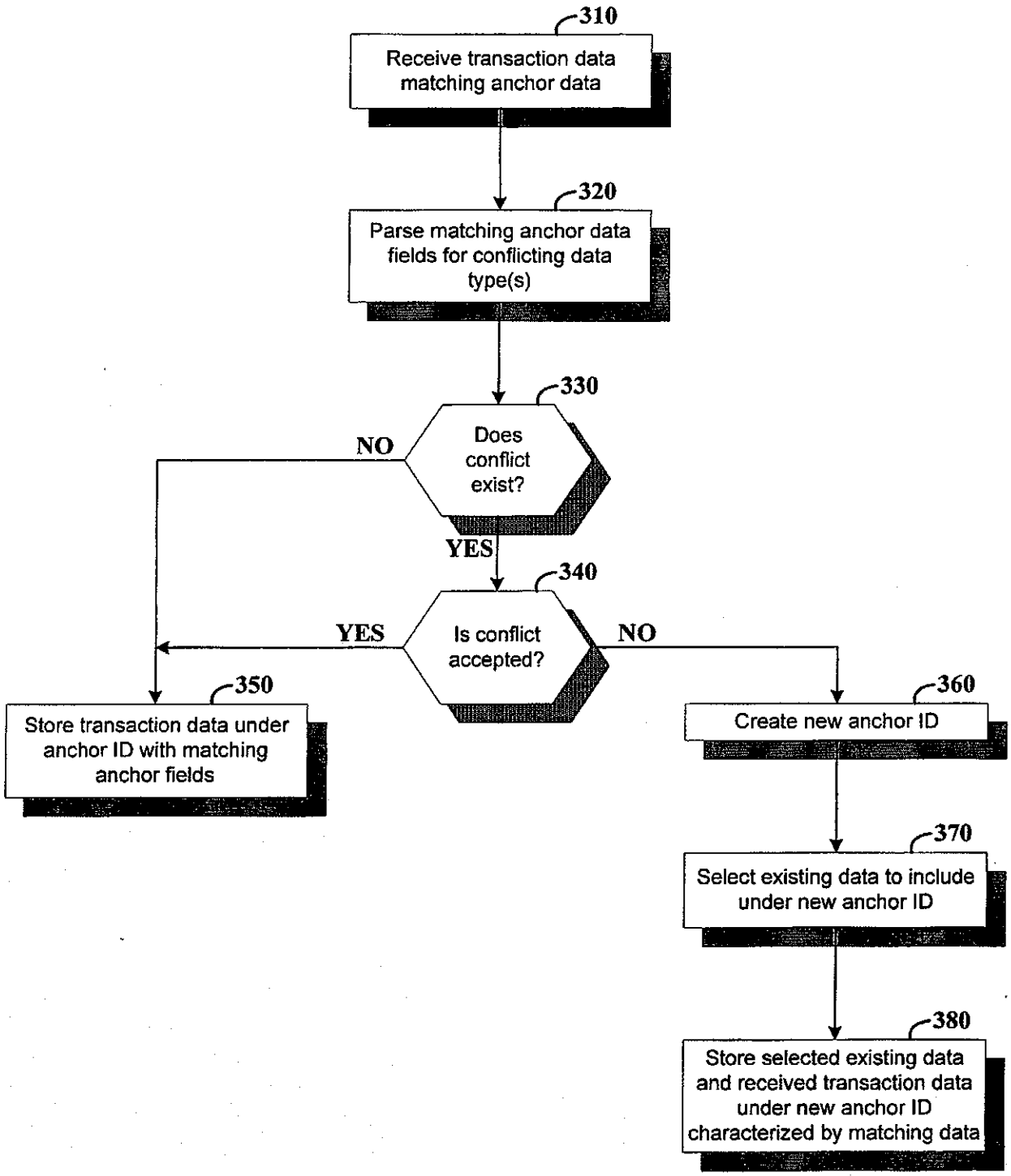

310
Receive transaction data matching anchor data
320
Parse matching anchor data fields for conflicting data type(s)
330
Does conflict exist?
NO
YES
340
Is conflict accepted?
YES
NO
350
Store transaction data under anchor ID with matching anchor fields
360
Create new anchor ID
370
Select existing data to include under new anchor ID
380
Store selected existing data and received transaction data under new anchor ID characterized by matching data

FIG. 3

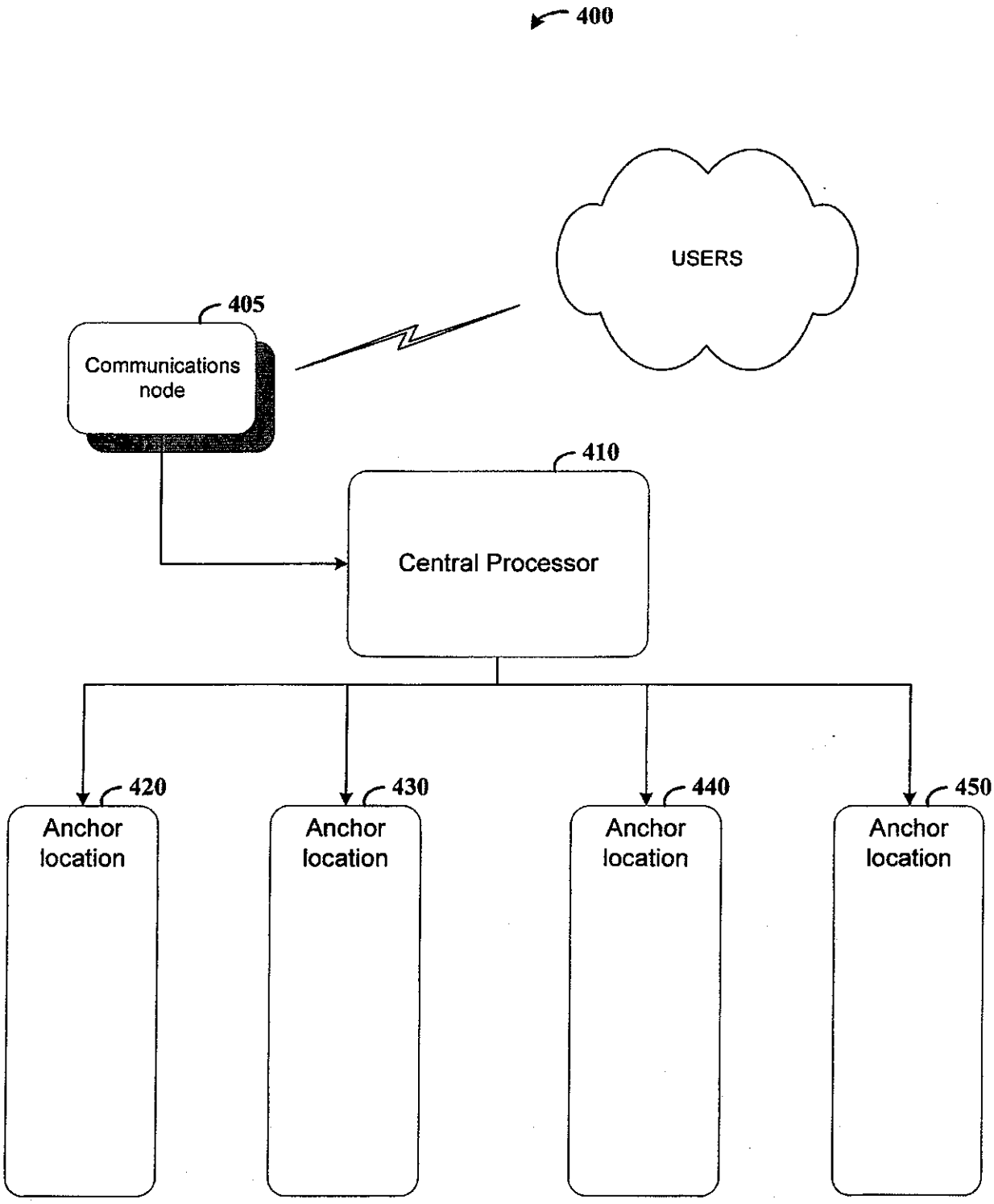

400
USERS
405
Communications node
410
Central Processor
420
Anchor location
430
Anchor location
440
Anchor location
450
Anchor location

FIG. 4

CASE: Order Received First

Buyer Business Rule is Primary Match ID = Order Number, Secondary Match ID = Invoice Number.

	KEY	KEY	KEY	KEY	KEY		KEY										
	ANCHOR VECTOR																
SEQ	ANCHOR ID	Named Party ID	DocID	Doc Type	Named Party Role	DocRN	Named Buyer ID	Reference Anchor ID	DocType	DocID	DocOwner OrgID	Named Party ID	Primary Match ID	Secondary Match ID	Named Party Role	DocRN
1									Order	OR123	5555	5555	OR123	NULL	Buyer	91001
												3333	OR123	NULL	Seller	
2	1234	5555	OR123	Order	Buyer	91001	5555	NULL								
	1234	3333	OR123	Order	Seller	91001	5555	NULL								
3									Invoice	IN456	3333	3333	OR123	IN456	Seller	91003
												5555	OR123	IN456	Buyer	
4	1234	5555	IN456	Invoice	Buyer	91003	5555	NULL				Finds Anchor				
	1234	3333	IN456	Invoice	Seller	91003	5555	NULL								
	1234	5555	OR123	Order	Buyer	91001	5555	NULL								
	1234	3333	OR123	Order	Seller	91001	5555	NULL								
5									eBill	EB987	3333	3333	NULL	IN456	Seller	91023
												5555	NULL	IN456	Buyer	
6	1234	5555	EB987	eBill	Buyer	91023	5555	NULL				Finds Anchor				
	1234	3333	EB987	eBill	Seller	91023	5555	NULL								
	1234	5555	IN456	Invoice	Buyer	91003	5555	NULL								
	1234	3333	IN456	Invoice	Seller	91003	5555	NULL								
	1234	5555	OR123	Order	Buyer	91001	5555	NULL								
	1234	3333	OR123	Order	Seller	91001	5555	NULL								
7									Invoice	IN6543	8888	3333	NULL	IN456	Buyer	91025
												8888	NULL	IN456	Seller	
8	7654	3333	IN456	Invoice	Buyer	91025	3333	1234				No Match as Named Party Roles don't match.				
	7654	8888	IN456	Invoice	Seller	91025	3333	1234				Create new anchor.				
	7654	3333	IN6543	Invoice	Buyer	91025	3333	1234								
	7654	8888	IN6543	Invoice	Seller	91025	3333	1234								
	1234	5555	EB987	eBill	Buyer	91023	5555	7654								
	1234	3333	EB987	eBill	Seller	91023	5555	7654								
	1234	5555	IN456	Invoice	Buyer	91003	5555	7654								
	1234	3333	IN456	Invoice	Seller	91003	5555	7654								
	1234	5555	OR123	Order	Buyer	91001	5555	7654								
	1234	3333	OR123	Order	Seller	91001	5555	7654								
9									Status	IN6543a	8888	3333	NULL	IN6543	Buyer	91030
10	7654	8888	IN6543a	Status	Seller	91030	3333	1234				Match found.				
	7654	3333	IN6543a	Status	Buyer	91030	3333	1234								
	7654	3333	IN456	Invoice	Buyer	91025	3333	1234								
	7654	8888	IN456	Invoice	Seller	91025	3333	1234								
	7654	3333	IN6543	Invoice	Buyer	91025	3333	1234								
	7654	8888	IN6543	Invoice	Seller	91025	3333	1234								
11									Status	IN456AB	3333	3333	NULL	IN456	Seller	91060
12	1234	3333	IN456	Status	Seller	91060	5555	7654								
	1234	3333	IN456AB	Status	Seller	91060	5555	7654								
	1234	5555	EB987	eBill	Buyer	91023	5555	7654								
	1234	3333	EB987	eBill	Seller	91023	5555	7654								
	1234	5555	IN456	Invoice	Buyer	91003	5555	7654								
	1234	3333	IN456	Invoice	Seller	91003	5555	7654								
	1234	5555	OR123	Order	Buyer	91001	5555	7654								
	1234	3333	OR123	Order	Seller	91001	5555	7654								
13									eBill	EB891	5555	5555	NULL	EB891	Buyer	91061
												3333	NULL	EB987	Seller	
14	1234	3333	EB987	eBill	Seller	91061	5555	7654								
	1234	5555	EB987	eBill	Buyer	91061	5555	7654								
	1234	3333	IN456	Status	Seller	91060	5555	7654								
	1234	3333	IN456AB	Status	Seller	91060	5555	7654								
	1234	5555	EB987	eBill	Buyer	91023	5555	7654								
	1234	3333	EB987	eBill	Seller	91023	5555	7654								
	1234	5555	IN456	Invoice	Buyer	91003	5555	7654								
	1234	3333	IN456	Invoice	Seller	91003	5555	7654								
	1234	5555	OR123	Order	Buyer	91001	5555	7654								
	1234	3333	OR123	Order	Seller	91001	5555	7654								

FIG. 5A

CASE: Seller Not Named Seller

Buyer Business Rule is Primary Match ID = Order Number, Secondary Match ID = Invoice Number.

KEY KEY KEY KEY KEY KEY

ANCHOR VECTOR

SEQ	ANCHOR ID	Named Party ID	DocID	Doc Type	Named Party Role	DocRN	Named Buyer ID	Referenced Anchor ID	DocType	DocID	Doc Owner OrgID	Named Party OrgID	Primary Match ID	Secondary Match ID	Named Party Role	DocRN
1									Order	OR123	6666	6666	OR123	NULL	Buyer	91001
												3333	OR123	NULL	Seller	91001
2	1234	6666	OR123	Order	Buyer	91001	6666	NULL				Buyer & Seller Named				
	1234	3333	OR123	Order	Seller	91001	6666	NULL								
3									Invoice	IN222	4444	6666	OR123	IN222	Buyer	91025
												4444	OR123	IN222	Seller	
4	1234	6666	OR123	Order	Buyer	91001	6666	5678				Finds Anchor but with different				
	1234	3333	OR123	Order	Seller	91001	6666	5678				Seller listed. Therefore, insert as new Anchor				
												with Anchor cross-references				
	5678	4444	IN222	Invoice	Seller	91025	6666	1234								
	5678	6666	IN222	Invoice	Buyer	91025	6666	1234								
	5678	4444	ORD123	Order	Seller	91025	6666	1234								
	5678	6666	ORD123	Order	Buyer	91025	6666	1234								
5									eBill	EB987	4444	4444	NULL	IN222	Seller	91023
												6666	NULL	IN222	Buyer	
6	1234	6666	OR123	Order	Buyer	91001	6666	5678								
	1234	3333	OR123	Order	Seller	91001	6666	5678								
	5678	4444	IN222	Invoice	Seller	91025	6666	1234								
	5678	6666	IN222	Invoice	Buyer	91025	6666	1234								
	5678	4444	ORD123	Order	Seller	91025	6666	1234								
	5678	6666	ORD123	Order	Buyer	91025	6666	1234								
	5678	4444	EB987	eBill	Seller	91023	6666	1234								
	5678	6666	EB987	eBill	Buyer	91023	6666	1234								
7									Status	IN222A	4444	4444	NULL	IN222	Seller	91030
8	1234	6666	OR123	Order	Buyer	91001	6666	5678								
	1234	3333	OR123	Order	Seller	91001	6666	5678								
	5678	4444	IN222	Invoice	Seller	91025	6666	1234								
	5678	6666	IN222	Invoice	Buyer	91025	6666	1234								
	5678	4444	ORD123	Order	Seller	91025	6666	1234								
	5678	6666	ORD123	Order	Buyer	91025	6666	1234								
	5678	4444	EB987	eBill	Seller	91023	6666	1234								
	5678	6666	EB987	eBill	Buyer	91023	6666	1234								
	5678	4444	IN222A	Status	Seller	91030	6666	1234								
	5678	6666	IN222A	Status	Buyer	91030	6666	1234								
9																
10	1234	6666	OR123	Order	Buyer	91001	6666	*Null*								
	1234	4444	OR123	Order	Seller	91001	6666	*Null*	← Buyer changes Seller ID							
	1234	4444	IN222	Invoice	Seller	91025	6666	*Null*	System looks in Referenced Anchor ID							
	1234	6666	IN222	Invoice	Buyer	91025	6666	*Null*	System finds circled match and links everything together							
	1234	4444	ORD123	Order	Seller	91025	6666	*Null*	*Changed automatically by system*							
	1234	6666	ORD123	Order	Buyer	91025	6666	*Null*								
	1234	4444	EB987	eBill	Seller	91023	6666	*Null*								
	1234	6666	EB987	eBill	Buyer	91023	6666	*Null*								
	1234	4444	IN222A	Status	Seller	91030	6666	*Null*								
	1234	6666	IN222A	Status	Buyer	91030	6666	*Null*								

FIG. 5B

CASE: Invoice Arrives First and Doesn't Name Buyer

Buyer Business Rule is Primary Match ID = Order Number, Secondary Match ID = Invoice Number.

KEY KEY KEY KEY KEY

ANCHOR VECTOR

SEQ	ANCHOR ID	Named Party ID	DocID	Doc Type	Named Party Role	DocRN	Named Buyer ID	Referenced Anchor ID	DocType	DocID	Doc Owner OrgID	Named Party ID	Primary Match ID	Secondary Match ID	Named Party Role	DocRN
1									Invoice	IN456	3333	3333	OR123	IN456	Seller	91003
												Buyer not explicitly named and Doc Owner + Buyer Reference Number not found				
2	1234	3333	IN456	Invoice	Seller	91003	NULL	NULL				Set Primary & Secondary Match IDs using Industry Rules				
	1234	3333	OR123	Order	Seller	91003	NULL	NULL								
3									Invoice	IN6543	8888	3333	NULL	IN456	Buyer	91025
												8888	NULL	IN456	Seller	
4	9876	8888	IN6543	Invoice	Seller	91025	3333	1234								
	9876	8888	IN456	Invoice	Seller	91025	3333	1234				Finds Anchor based on Named Party and Secondary Match ID				
	9876	3333	IN6543	Invoice	Buyer	91025	3333	1234				However, decides to build new Anchor with association to existing				
	9876	3333	IN456	Invoice	Buyer	91025	3333	1234				because 3333 is now named Buyer				
	1234	3333	IN456	Invoice	Seller	91003	NULL	9876								
	1234	3333	OR123	Invoice	Seller	91003	NULL	9876								
5									eBill	EB987	3333	3333	NULL	IN456	Seller	91023
												6666	NULL	IN456	Buyer	
6	1234	3333	IN456	Invoice	Seller	91003	6666	9876								
	1234	3333	OR123	Invoice	Seller	91003	6666	9876				Finds Anchor based on Named Party and Secondary Match ID				
	1234	3333	IN456	eBill	Seller	91023	6666	9876				Decides that 6666 is the likely Buyer				
	1234	6666	IN456	eBill	Buyer	91023	6666	9876								
	1234	3333	EB987	eBill	Seller	91023	6666	9876								
	1234	6666	EB987	eBill	Buyer	91023	6666	9876								
7									Order	OR123	6666	6666	OR123	NULL	Buyer	91001
												3333	OR123	NULL	Seller	
8	1234	6666	OR123	Order	Buyer	91001	6666	NULL								
	1234	3333	OR123	Order	Seller	91001	6666	NULL				Finds Anchor				
	1234	3333	IN456	Invoice	Seller	91003	6666	9876								
	1234	3333	OR123	Invoice	Seller	91003	6666	9876								
	1234	3333	IN456	eBill	Seller	91023	6666	9876								
	1234	6666	IN456	eBill	Buyer	91023	6666	9876								
	1234	3333	EB987	eBill	Seller	91023	6666	9876								
	1234	6666	EB987	eBill	Buyer	91023	6666	9876								
9									Status	IN6543a	6666	3333	NULL	IN6543	Seller	91030
10	5588	6666	IN6543a	Status	Buyer	91030	6666	9876				6666	NULL	IN6543	Buyer	
	5588	3333	IN6543a	Status	Seller	91030	6666	9876								
	5588	6666	IN6543	Status	Buyer	91030	6666	9876				Found 3333 + IN6543 but different role.				
	5588	3333	IN6543	Status	Seller	91030	6666	9876				Didn't find 6666 + IN6543				
												Therefore, create new anchor and associate				
	1234	6666	OR123	Order	Buyer	91001	6666	NULL				with 9876				
	1234	3333	OR123	Order	Seller	91001	6666	NULL								
	1234	3333	IN456	Invoice	Seller	91003	6666	9876								
	1234	3333	OR123	Invoice	Seller	91003	6666	9876								
	1234	3333	IN456	eBill	Seller	91023	6666	9876								
	1234	6666	IN456	eBill	Buyer	91023	6666	9876								
	1234	3333	EB987	eBill	Seller	91023	6666	9876								
	1234	6666	EB987	eBill	Buyer	91023	6666	9876								
11									Status	IN456a	3333	3333	NULL	IN456	Seller	91060
12	1234	3333	IN456a	Status	Seller	91060	6666	9876								
	1234	3333	IN456	Status	Seller	91060	6666	9876				No direct Buyer data provided.				
	1234	6666	OR123	Order	Buyer	91001	6666	NULL				Anchor found using Seller data				
	1234	3333	OR123	Order	Seller	91001	6666	NULL								
	1234	3333	IN456	Invoice	Seller	91003	6666	9876								
	1234	3333	OR123	Invoice	Seller	91003	6666	9876								
	1234	3333	IN456	eBill	Seller	91023	6666	9876								
	1234	6666	IN456	eBill	Buyer	91023	6666	9876								
	1234	3333	EB987	eBill	Seller	91023	6666	9876								
	1234	6666	EB987	eBill	Buyer	91023	6666	9876								
13									eBill	EB891	9999	3333	NULL	EB987	Seller	91061
												9999	NULL	EB891	Buyer	
14	2222	9999	EB891	eBill	Buyer	91061	9999	1234								
	2222	9999	EB987	eBill	Buyer	91061	9999	1234				Finds anchor but Buyer is different				
	2222	3333	EB987	eBill	Seller	91061	9999	1234				Therefore, create new anchor				
	2222	3333	EB891	eBill	Seller	91061	9999	1234				and associate to old				
	1234	3333	IN456a	Status	Seller	91060	6666	9876								
	1234	3333	IN456	Status	Seller	91060	6666	9876								
	1234	6666	OR123	Order	Buyer	91001	6666	NULL								
	1234	3333	OR123	Order	Seller	91001	6666	NULL								
	1234	3333	IN456	Invoice	Seller	91003	6666	9876								
	1234	3333	OR123	Invoice	Seller	91003	6666	9876								
	1234	3333	IN456	eBill	Seller	91023	6666	9876								
	1234	6666	IN456	eBill	Buyer	91023	6666	9876								
	1234	3333	EB987	eBill	Seller	91023	6666	2222, 9876								
	1234	6666	EB987	eBill	Buyer	91023	6666	2222, 9876								

FIG. 5C