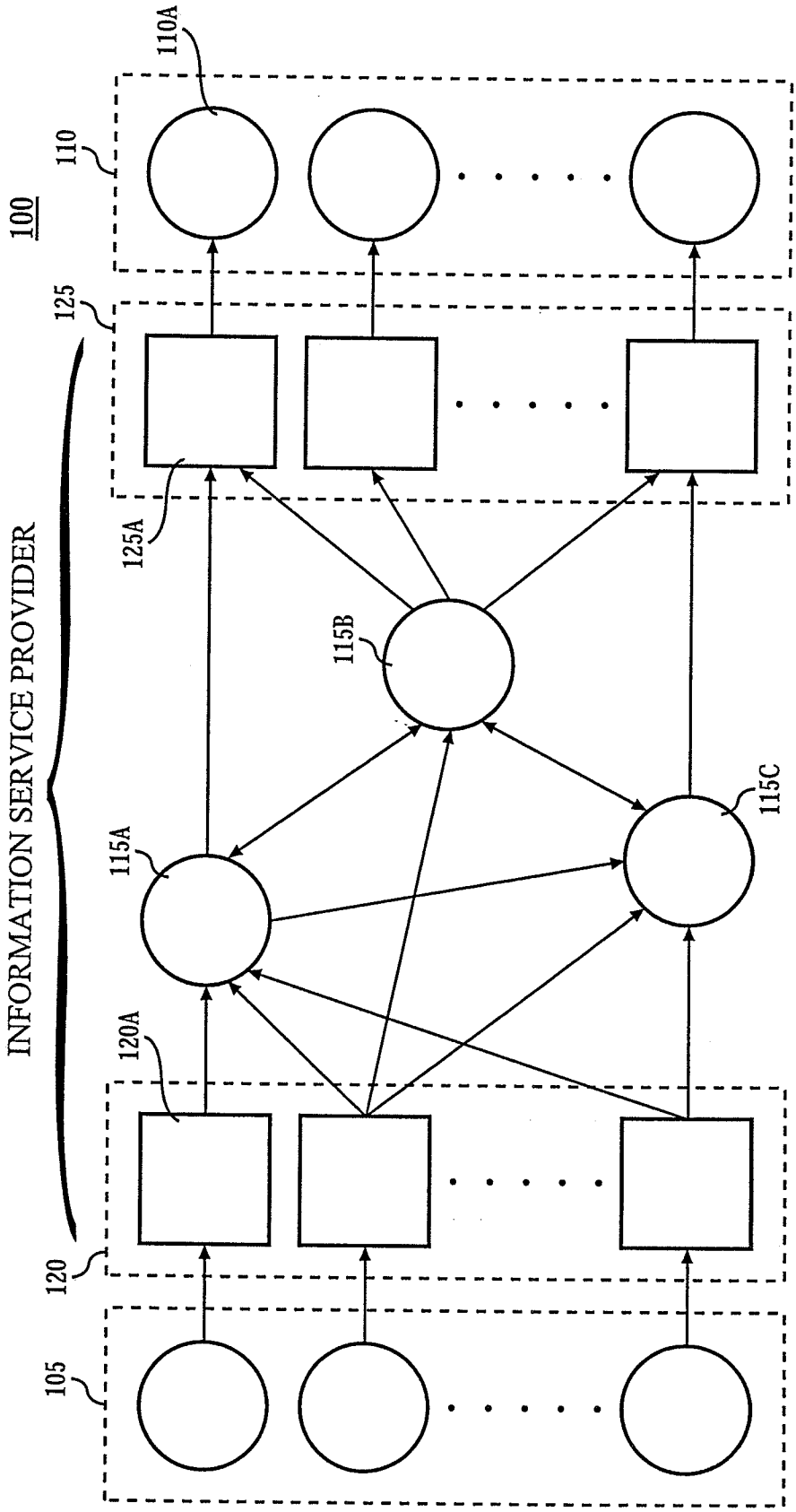


FIG. 1 (PRIOR ART)

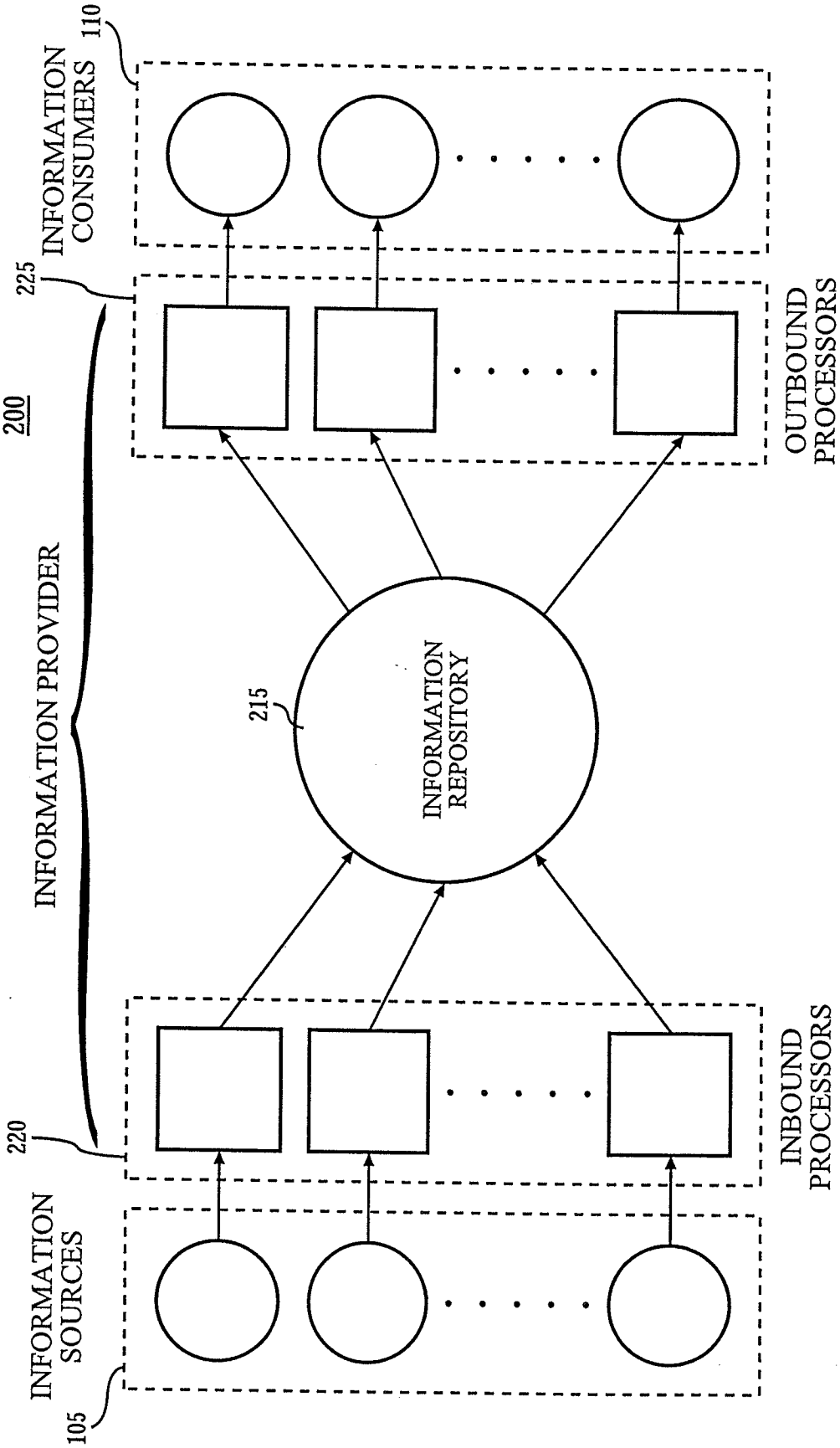


FIG. 2 (PRIOR ART)

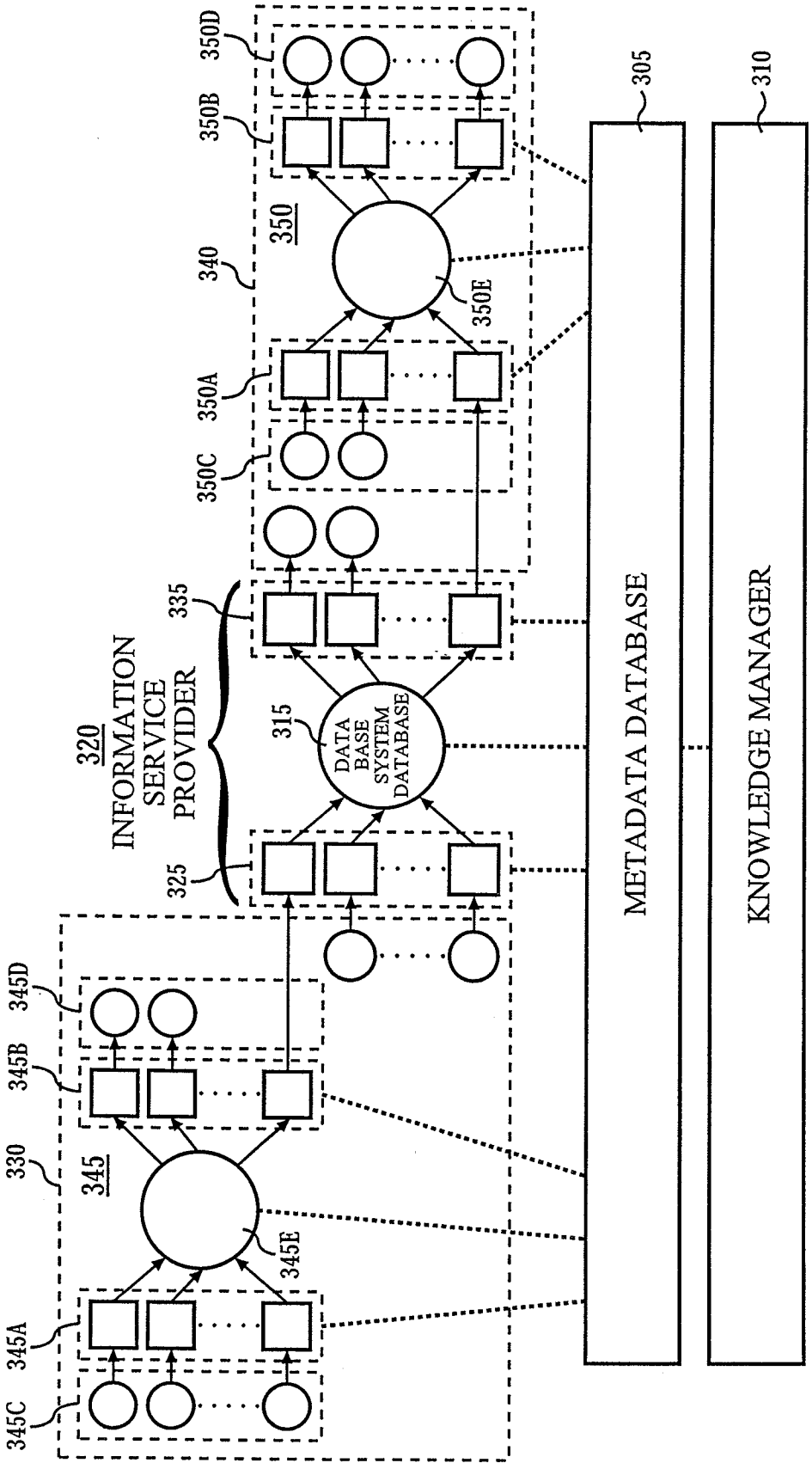

345C
345A
345E
330
345
345B
345D
325
320
INFORMATION SERVICE PROVIDER
335
315
DATA BASE SYSTEM DATABASE
350C
350A
350E
340
350
350B
350D
305
METADATA DATABASE
310
KNOWLEDGE MANAGER
300
METADATA DATABASE SYSTEM

FIG. 3

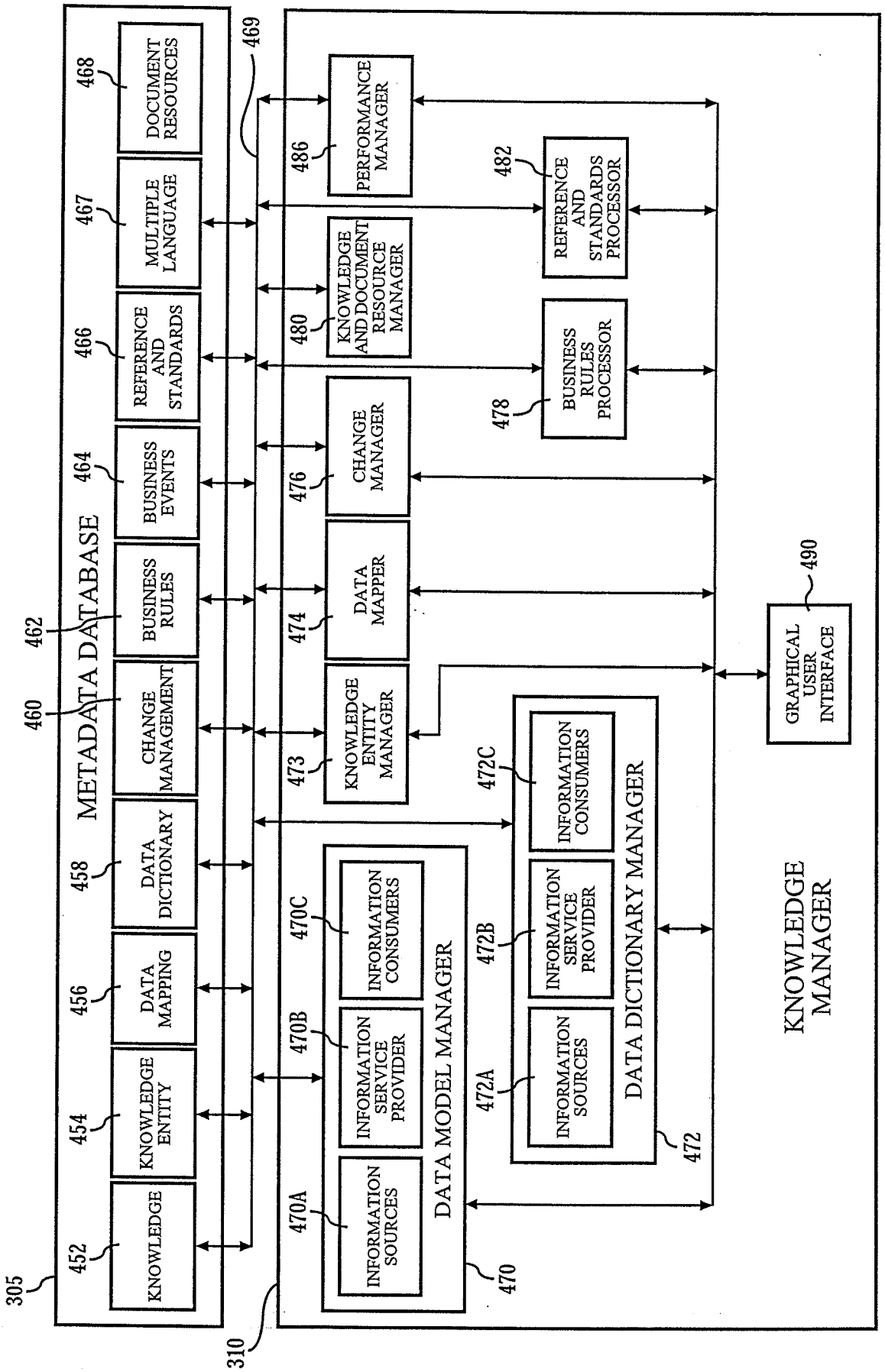

305
310
METADATA DATABASE
452
KNOWLEDGE
454
KNOWLEDGE ENTITY
456
DATA MAPPING
458
DATA DICTIONARY
460
CHANGE MANAGEMENT
462
BUSINESS RULES
464
BUSINESS EVENTS
466
REFERENCE AND STANDARDS
467
MULTIPLE LANGUAGE
468
DOCUMENT RESOURCES
469
KNOWLEDGE MANAGER
470
DATA MODEL MANAGER
470A
INFORMATION SOURCES
470B
INFORMATION SERVICE PROVIDER
470C
INFORMATION CONSUMERS
472
DATA DICTIONARY MANAGER
472A
INFORMATION SOURCES
472B
INFORMATION SERVICE PROVIDER
472C
INFORMATION CONSUMERS
473
KNOWLEDGE ENTITY MANAGER
474
DATA MAPPER
476
CHANGE MANAGER
478
BUSINESS RULES PROCESSOR
480
KNOWLEDGE AND DOCUMENT RESOURCE MANAGER
482
REFERENCE AND STANDARDS PROCESSOR
486
PERFORMANCE MANAGER
490
GRAPHICAL USER INTERFACE

FIG. 4

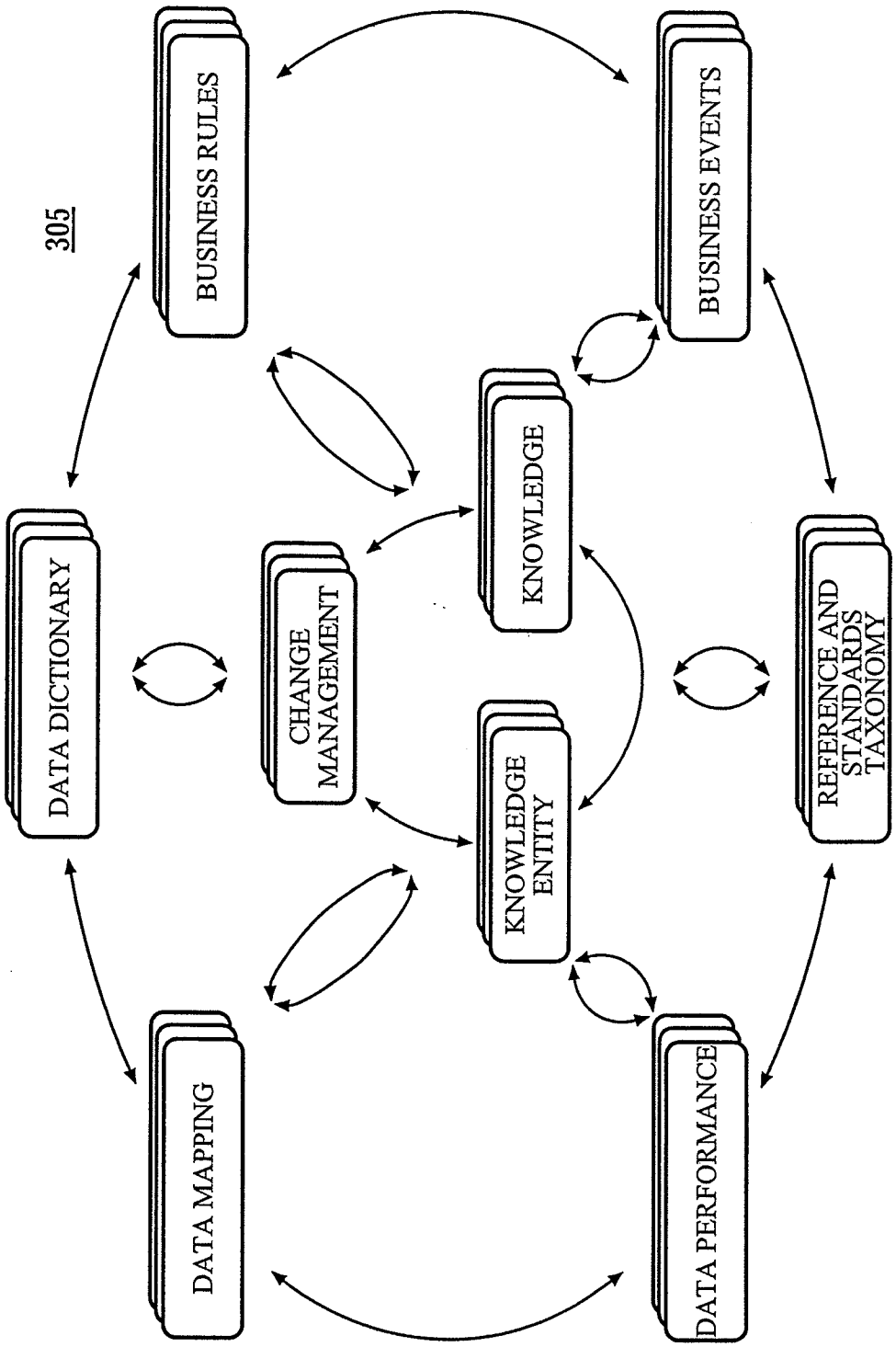

305
BUSINESS RULES
BUSINESS EVENTS
DATA DICTIONARY
CHANGE MANAGEMENT
KNOWLEDGE
KNOWLEDGE ENTITY
REFERENCE AND STANDARDS TAXONOMY
DATA MAPPING
DATA PERFORMANCE

FIG. 5

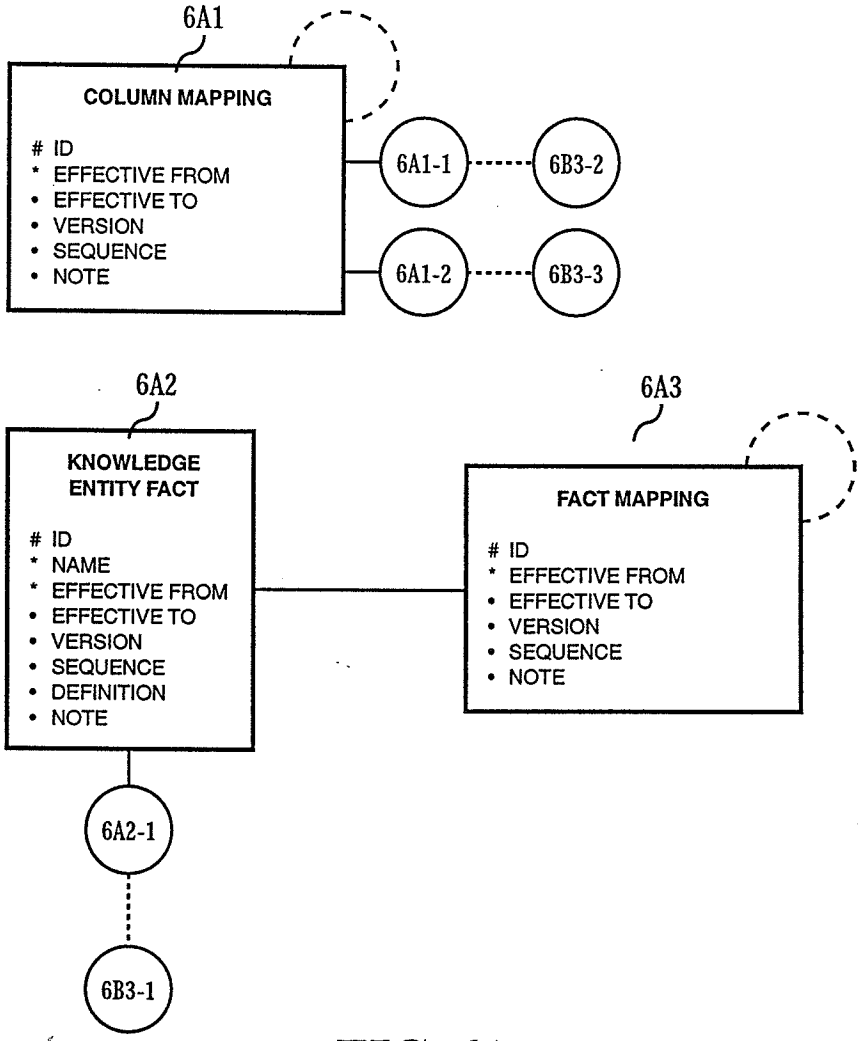

6A1
COLUMN MAPPING
ID
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• NOTE
6A1-1
6B3-2
6A1-2
6B3-3
6A2
KNOWLEDGE ENTITY FACT
ID
* NAME
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• DEFINITION
• NOTE
6A3
FACT MAPPING
ID
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• NOTE
6A2-1
6B3-1

FIG. 6A

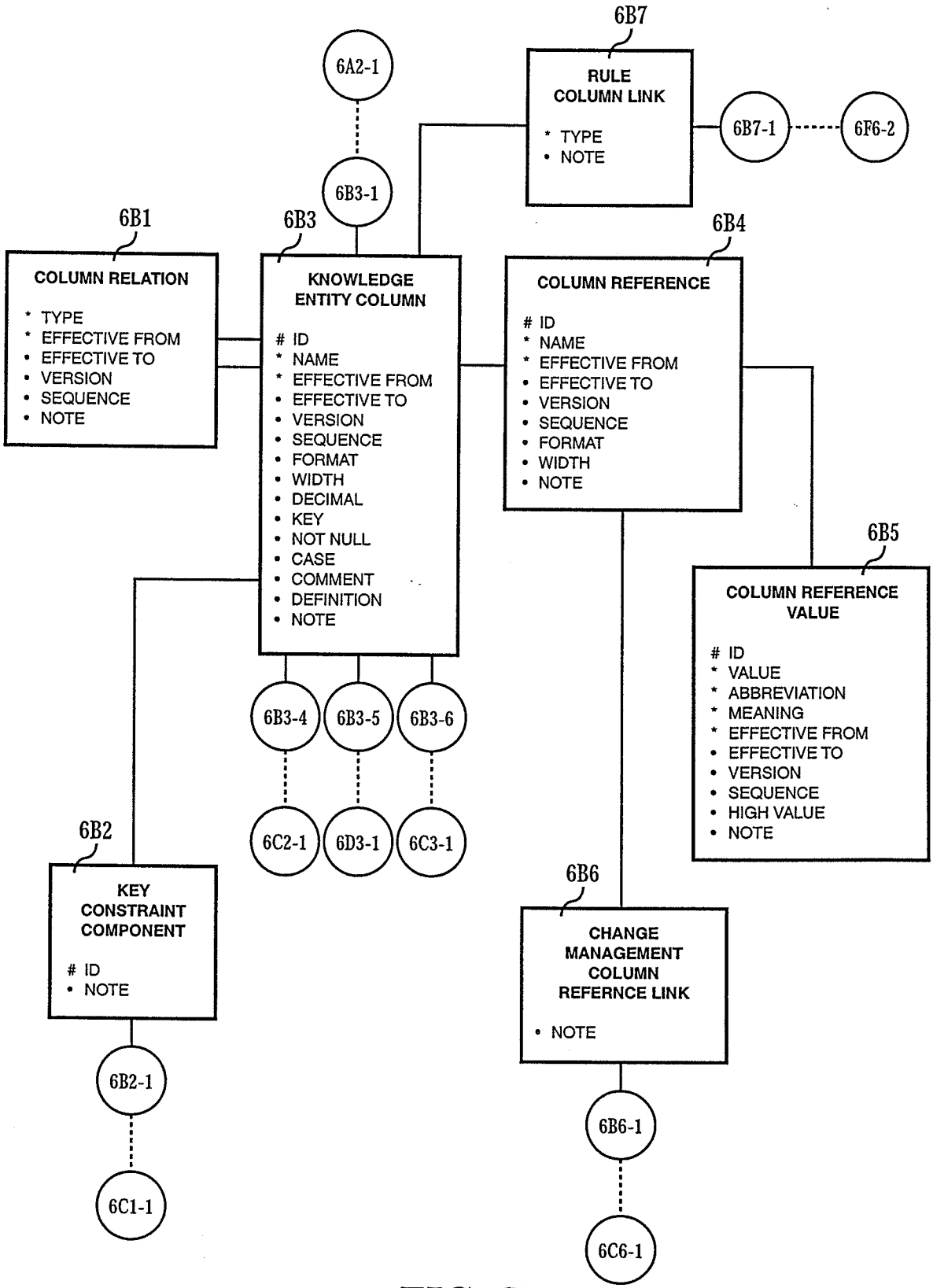

6B7
RULE COLUMN LINK
* TYPE
• NOTE
6A2-1
6B3-1
6B7-1
6F6-2
6B1
COLUMN RELATION
* TYPE
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• NOTE
6B3
KNOWLEDGE ENTITY COLUMN
ID
* NAME
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• FORMAT
• WIDTH
• DECIMAL
• KEY
• NOT NULL
• CASE
• COMMENT
• DEFINITION
• NOTE
6B4
COLUMN REFERENCE
ID
* NAME
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• FORMAT
• WIDTH
• NOTE
6B5
COLUMN REFERENCE VALUE
ID
* VALUE
* ABBREVIATION
* MEANING
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• HIGH VALUE
• NOTE
6B3-4
6B3-5
6B3-6
6C2-1
6D3-1
6C3-1
6B2
KEY CONSTRAINT COMPONENT
ID
• NOTE
6B6
CHANGE MANAGEMENT COLUMN REFERNCE LINK
• NOTE
6B2-1
6C1-1
6B6-1
6C6-1

FIG. 6B

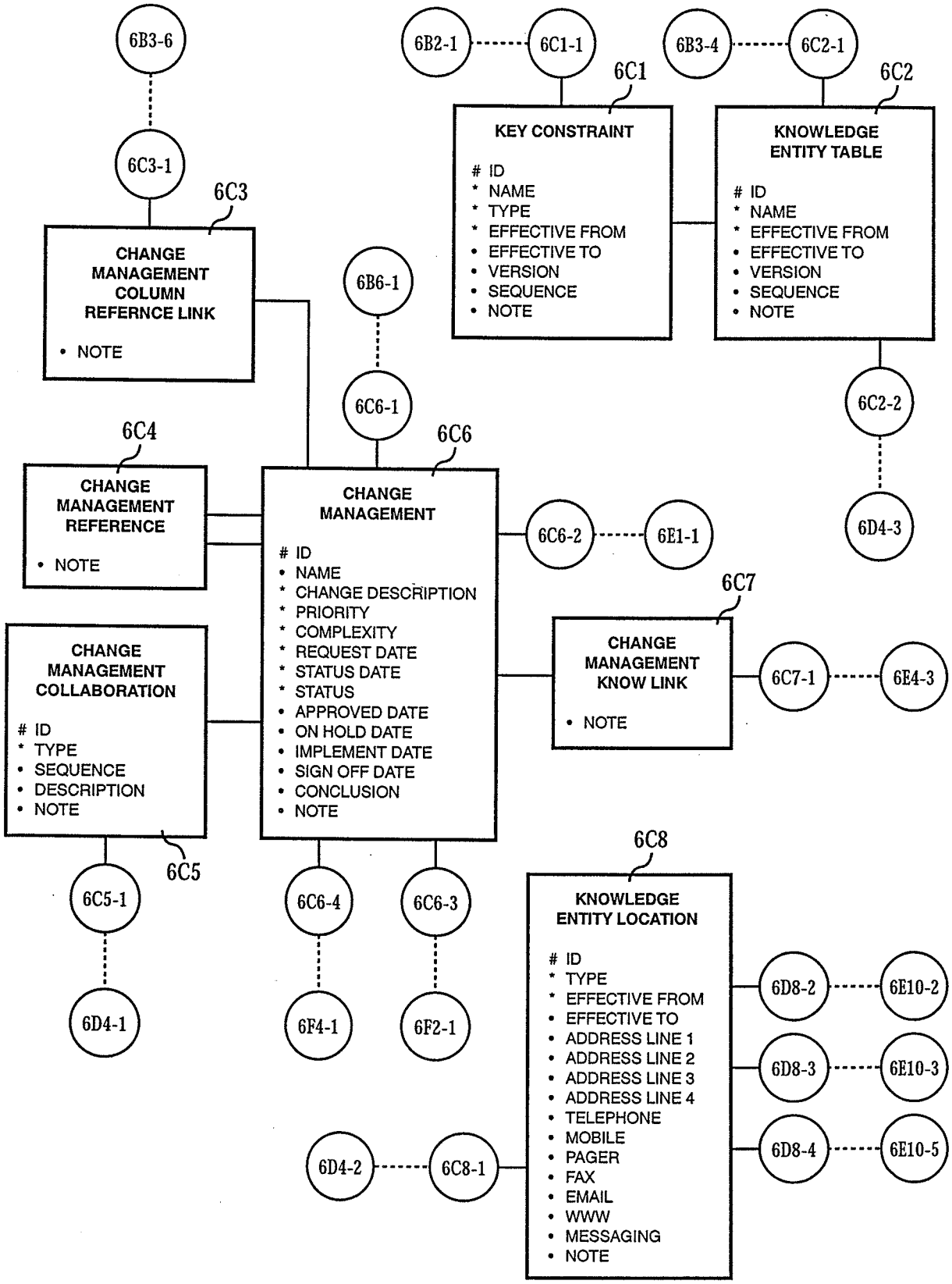

6B3-6
6C3-1
6C3
CHANGE MANAGEMENT COLUMN REFERNCE LINK
• NOTE
6B2-1
6C1-1
6C1
KEY CONSTRAINT
ID
* NAME
* TYPE
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• NOTE
6B3-4
6C2-1
6C2
KNOWLEDGE ENTITY TABLE
ID
* NAME
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• NOTE
6C2-2
6D4-3
6B6-1
6C6-1
6C4
CHANGE MANAGEMENT REFERENCE
• NOTE
6C6
CHANGE MANAGEMENT
ID
• NAME
* CHANGE DESCRIPTION
* PRIORITY
* COMPLEXITY
* REQUEST DATE
* STATUS DATE
* STATUS
• APPROVED DATE
• ON HOLD DATE
• IMPLEMENT DATE
• SIGN OFF DATE
• CONCLUSION
• NOTE
6C6-2
6E1-1
6C7
CHANGE MANAGEMENT KNOW LINK
• NOTE
6C7-1
6E4-3
CHANGE MANAGEMENT COLLABORATION
ID
* TYPE
• SEQUENCE
• DESCRIPTION
• NOTE
6C5
6C5-1
6D4-1
6C6-4
6F4-1
6C6-3
6F2-1
6C8
KNOWLEDGE ENTITY LOCATION
ID
* TYPE
* EFFECTIVE FROM
• EFFECTIVE TO
• ADDRESS LINE 1
• ADDRESS LINE 2
• ADDRESS LINE 3
• ADDRESS LINE 4
• TELEPHONE
• MOBILE
• PAGER
• FAX
• EMAIL
• WWW
• MESSAGING
• NOTE
6D8-2
6E10-2
6D8-3
6E10-3
6D8-4
6E10-5
6D4-2
6C8-1

FIG. 6C

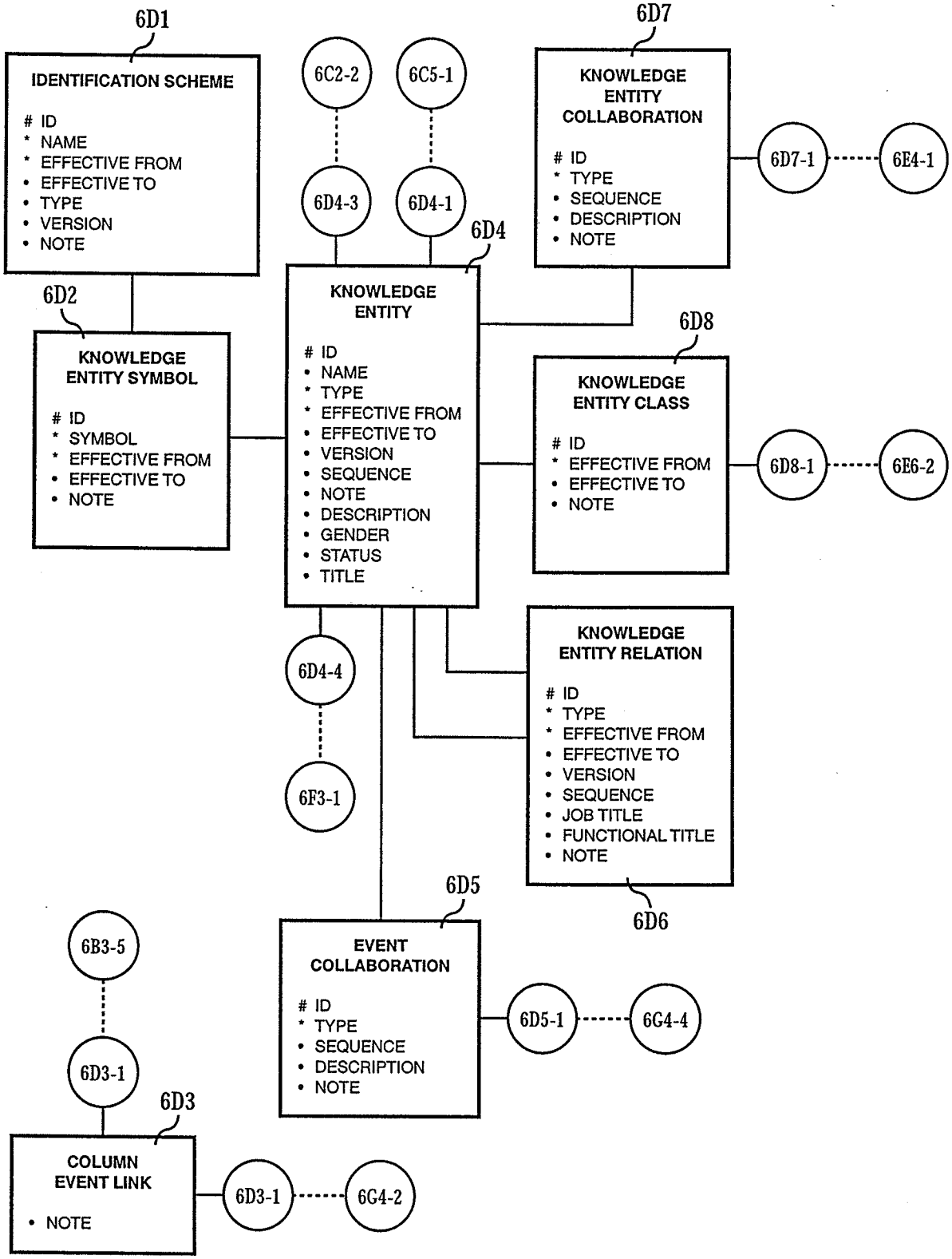

6D1
IDENTIFICATION SCHEME
ID
* NAME
* EFFECTIVE FROM
• EFFECTIVE TO
• TYPE
• VERSION
• NOTE
6C2-2
6C5-1
6D4-3
6D4-1
6D4
6D7
KNOWLEDGE ENTITY COLLABORATION
ID
* TYPE
• SEQUENCE
• DESCRIPTION
• NOTE
6D7-1
6E4-1
6D2
KNOWLEDGE ENTITY SYMBOL
ID
* SYMBOL
* EFFECTIVE FROM
• EFFECTIVE TO
• NOTE
KNOWLEDGE ENTITY
ID
• NAME
* TYPE
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• NOTE
• DESCRIPTION
• GENDER
• STATUS
• TITLE
6D8
KNOWLEDGE ENTITY CLASS
ID
* EFFECTIVE FROM
• EFFECTIVE TO
• NOTE
6D8-1
6E6-2
6D4-4
6F3-1
KNOWLEDGE ENTITY RELATION
ID
* TYPE
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• JOB TITLE
• FUNCTIONAL TITLE
• NOTE
6D6
6D5
EVENT COLLABORATION
ID
* TYPE
• SEQUENCE
• DESCRIPTION
• NOTE
6D5-1
6G4-4
6B3-5
6D3-1
6D3
COLUMN EVENT LINK
• NOTE
6D3-1
6G4-2

FIG. 6D

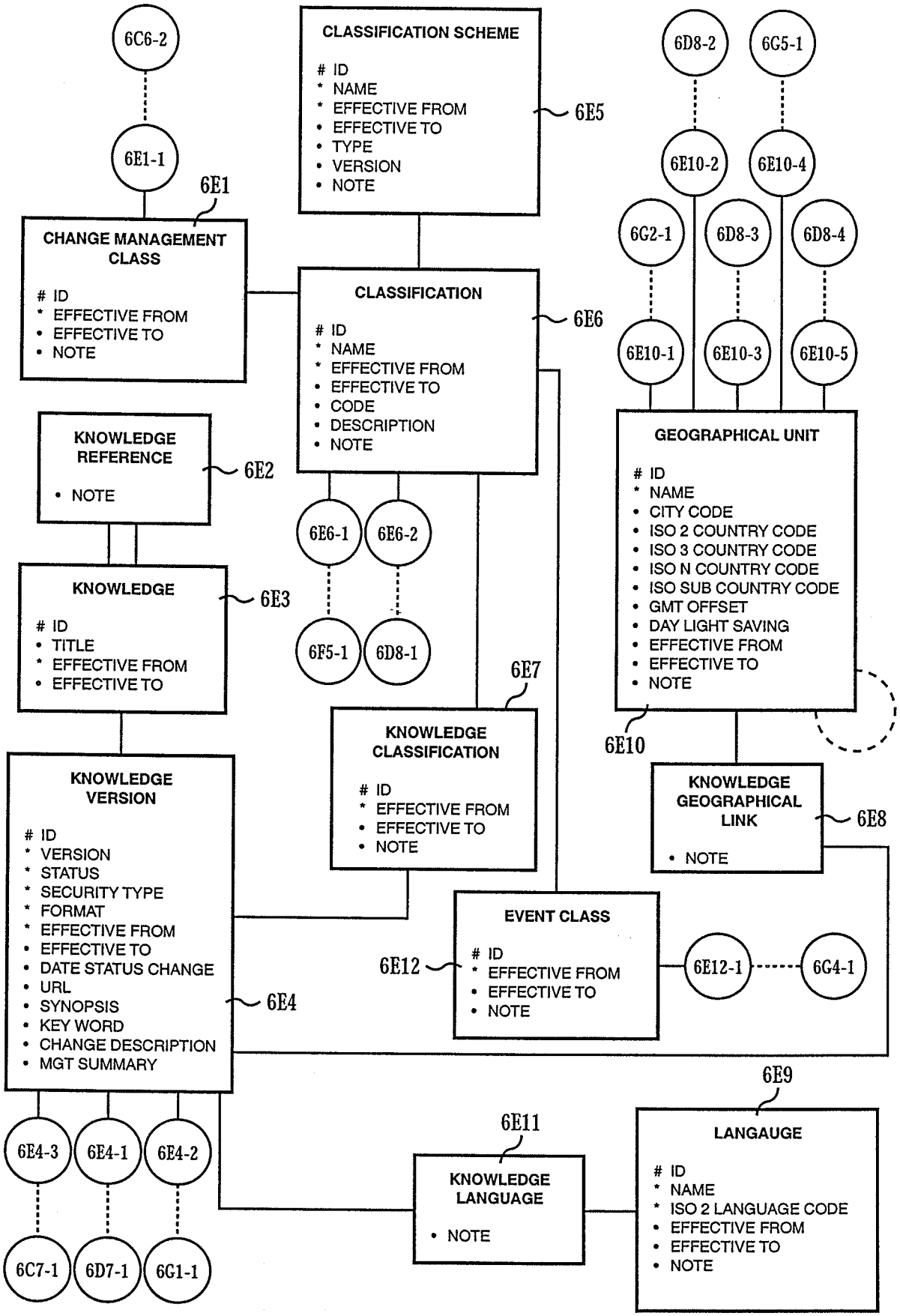

6C6-2
6E1-1
6E1
CHANGE MANAGEMENT CLASS
ID
* EFFECTIVE FROM
• EFFECTIVE TO
• NOTE
CLASSIFICATION SCHEME
ID
* NAME
* EFFECTIVE FROM
• EFFECTIVE TO
• TYPE
• VERSION
• NOTE
6E5
6D8-2
6G5-1
6E10-2
6E10-4
6G2-1
6D8-3
6D8-4
6E10-1
6E10-3
6E10-5
CLASSIFICATION
ID
* NAME
* EFFECTIVE FROM
• EFFECTIVE TO
• CODE
• DESCRIPTION
• NOTE
6E6
KNOWLEDGE REFERENCE
• NOTE
6E2
6E6-1
6E6-2
GEOGRAPHICAL UNIT
ID
* NAME
• CITY CODE
• ISO 2 COUNTRY CODE
• ISO 3 COUNTRY CODE
• ISO N COUNTRY CODE
• ISO SUB COUNTRY CODE
• GMT OFFSET
• DAY LIGHT SAVING
• EFFECTIVE FROM
• EFFECTIVE TO
• NOTE
KNOWLEDGE
ID
• TITLE
* EFFECTIVE FROM
• EFFECTIVE TO
6E3
6F5-1
6D8-1
6E7
KNOWLEDGE CLASSIFICATION
ID
* EFFECTIVE FROM
• EFFECTIVE TO
• NOTE
6E10
KNOWLEDGE GEOGRAPHICAL LINK
• NOTE
6E8
KNOWLEDGE VERSION
ID
* VERSION
* STATUS
* SECURITY TYPE
* FORMAT
* EFFECTIVE FROM
• EFFECTIVE TO
• DATE STATUS CHANGE
• URL
• SYNOPSIS
• KEY WORD
• CHANGE DESCRIPTION
• MGT SUMMARY
6E4
EVENT CLASS
ID
* EFFECTIVE FROM
• EFFECTIVE TO
• NOTE
6E12
6E12-1
6G4-1
6E4-3
6E4-1
6E4-2
6C7-1
6D7-1
6G1-1
6E11
KNOWLEDGE LANGUAGE
• NOTE
6E9
LANGAUGE
ID
* NAME
* ISO 2 LANGUAGE CODE
• EFFECTIVE FROM
• EFFECTIVE TO
• NOTE

FIG. 6E

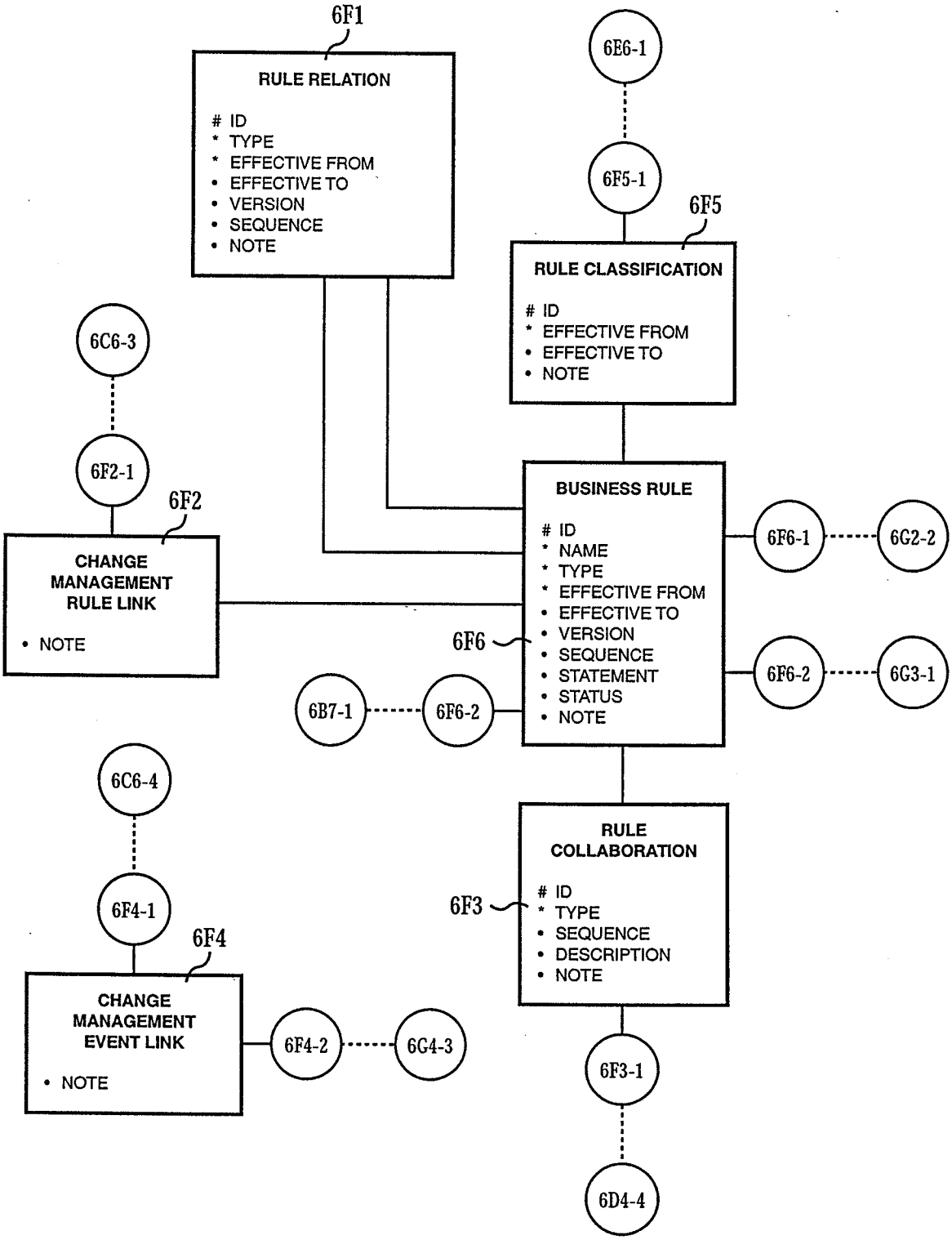

6F1
RULE RELATION
ID
* TYPE
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• NOTE
6E6-1
6F5-1
6F5
RULE CLASSIFICATION
ID
* EFFECTIVE FROM
• EFFECTIVE TO
• NOTE
6C6-3
6F2-1
6F2
CHANGE MANAGEMENT RULE LINK
• NOTE
BUSINESS RULE
ID
* NAME
* TYPE
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• STATEMENT
• STATUS
• NOTE
6F6
6F6-1
6G2-2
6F6-2
6G3-1
6B7-1
6F6-2
6C6-4
6F4-1
6F4
CHANGE MANAGEMENT EVENT LINK
• NOTE
6F4-2
6G4-3
RULE COLLABORATION
ID
* TYPE
• SEQUENCE
• DESCRIPTION
• NOTE
6F3
6F3-1
6D4-4

FIG. 6F

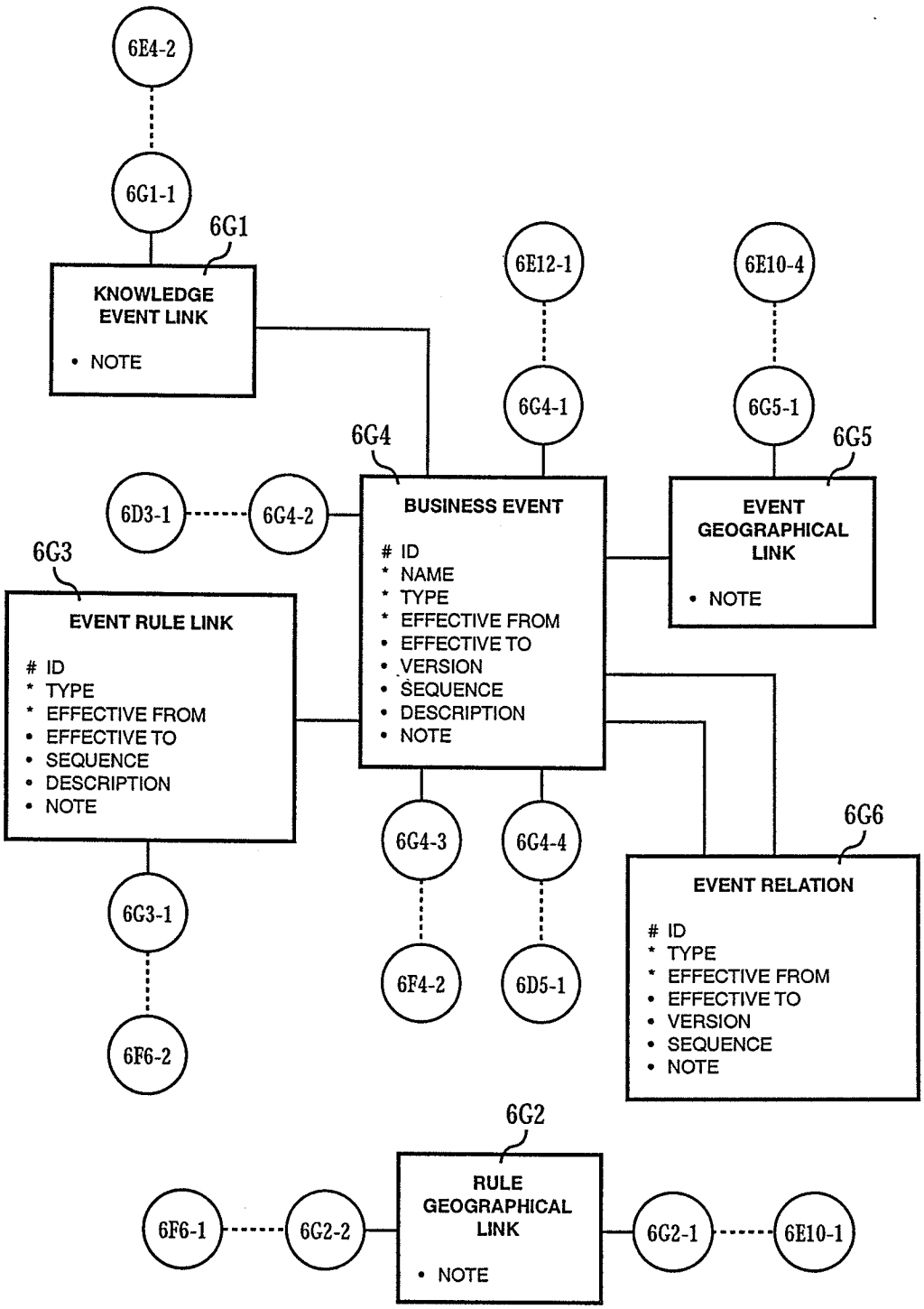

6E4-2
6G1-1
6G1
KNOWLEDGE EVENT LINK
• NOTE
6E12-1
6E10-4
6G4-1
6G5-1
6G4
6G5
6D3-1
6G4-2
BUSINESS EVENT
ID
* NAME
* TYPE
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• DESCRIPTION
• NOTE
EVENT GEOGRAPHICAL LINK
• NOTE
6G3
EVENT RULE LINK
ID
* TYPE
* EFFECTIVE FROM
• EFFECTIVE TO
• SEQUENCE
• DESCRIPTION
• NOTE
6G3-1
6F6-2
6G4-3
6G4-4
6F4-2
6D5-1
6G6
EVENT RELATION
ID
* TYPE
* EFFECTIVE FROM
• EFFECTIVE TO
• VERSION
• SEQUENCE
• NOTE
6G2
RULE GEOGRAPHICAL LINK
• NOTE
6F6-1
6G2-2
6G2-1
6E10-1

FIG. 6G

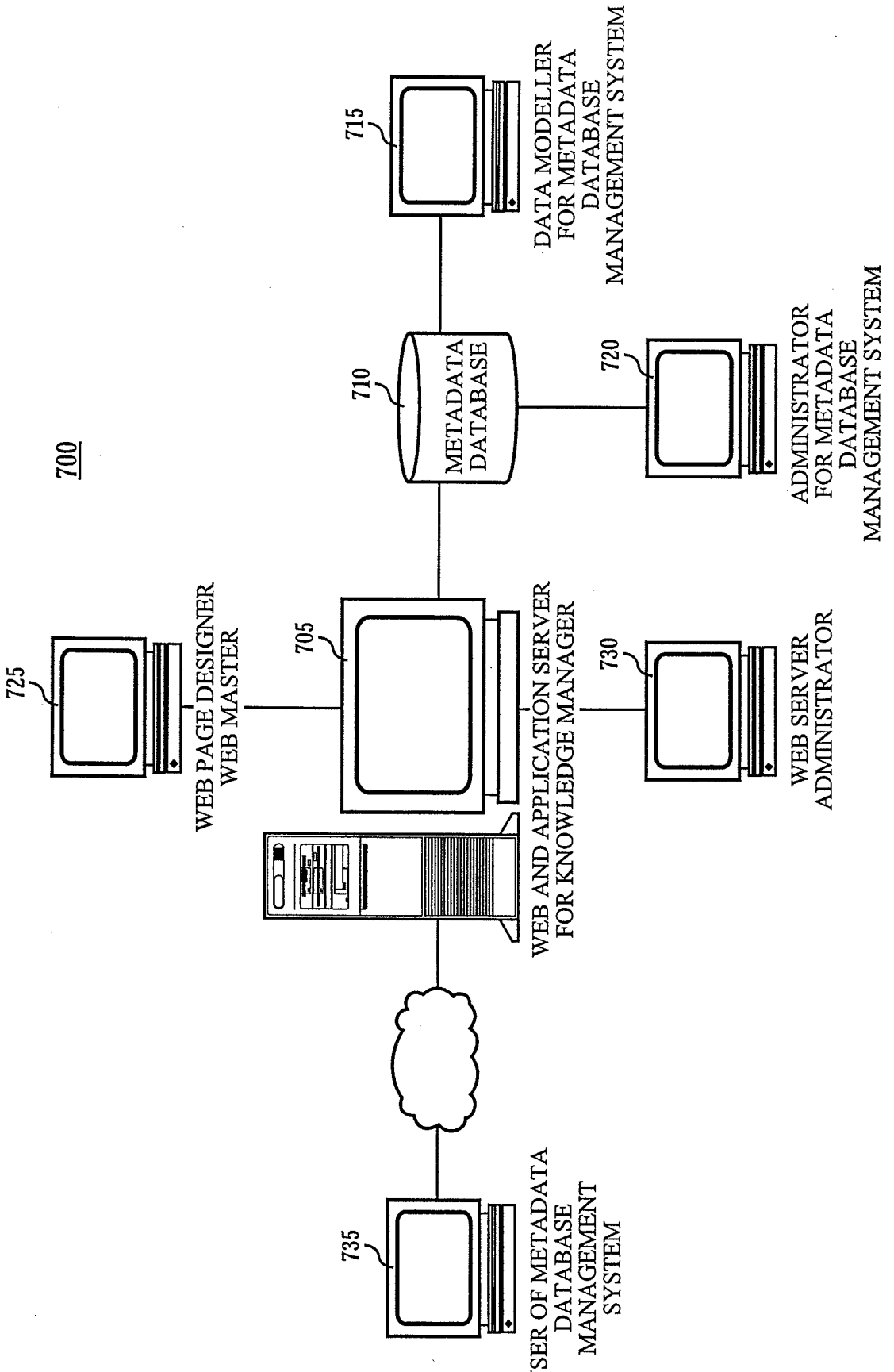

700
715
DATA MODELLER FOR METADATA DATABASE MANAGEMENT SYSTEM
710
METADATA DATABASE
720
ADMINISTRATOR FOR METADATA DATABASE MANAGEMENT SYSTEM
725
WEB PAGE DESIGNER WEB MASTER
705
WEB AND APPLICATION SERVER FOR KNOWLEDGE MANAGER
730
WEB SERVER ADMINISTRATOR
735
USER OF METADATA DATABASE MANAGEMENT SYSTEM

FIG. 7