30 JUL 2003

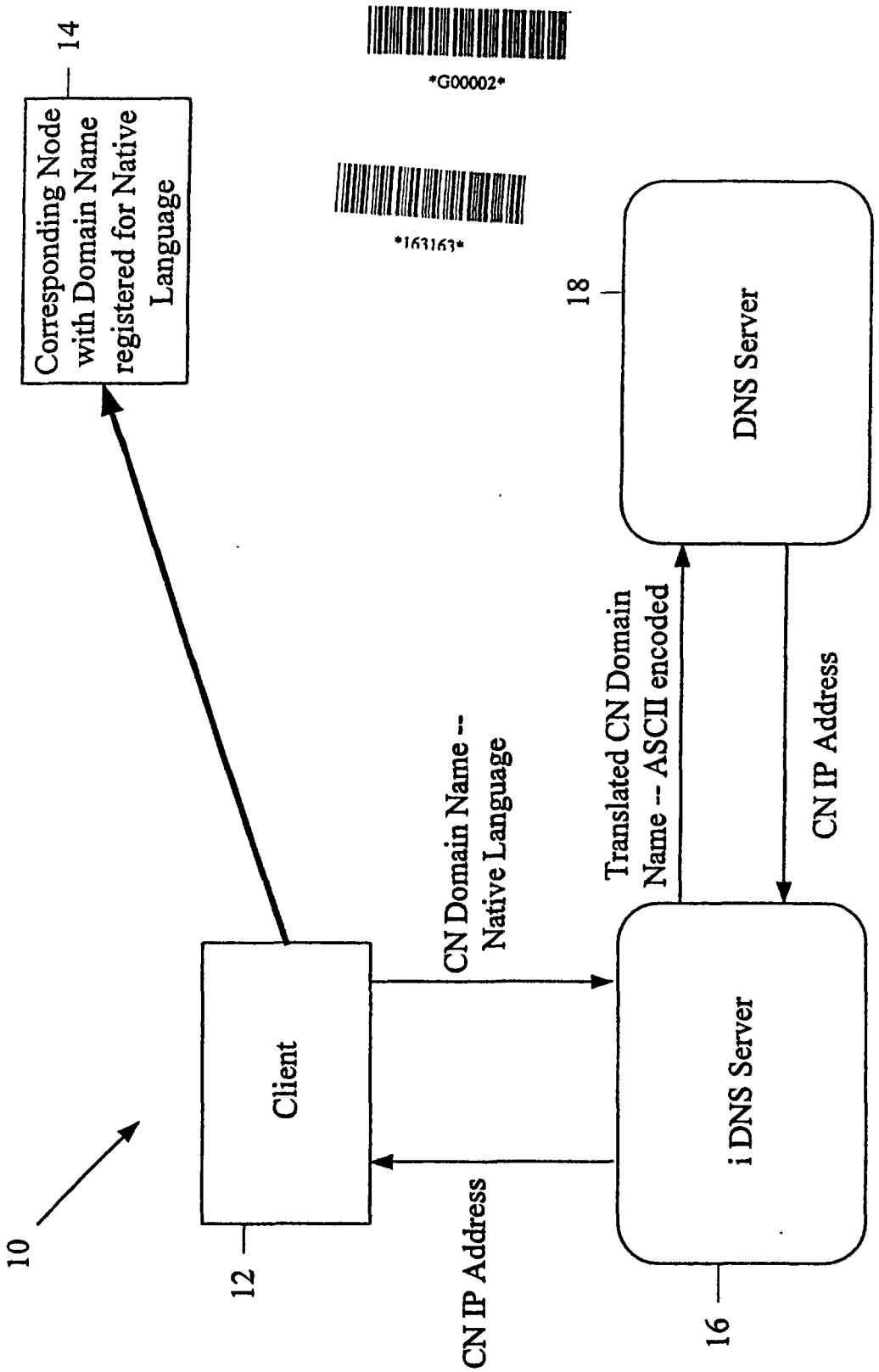


FIGURE 1

30 JUL 2003

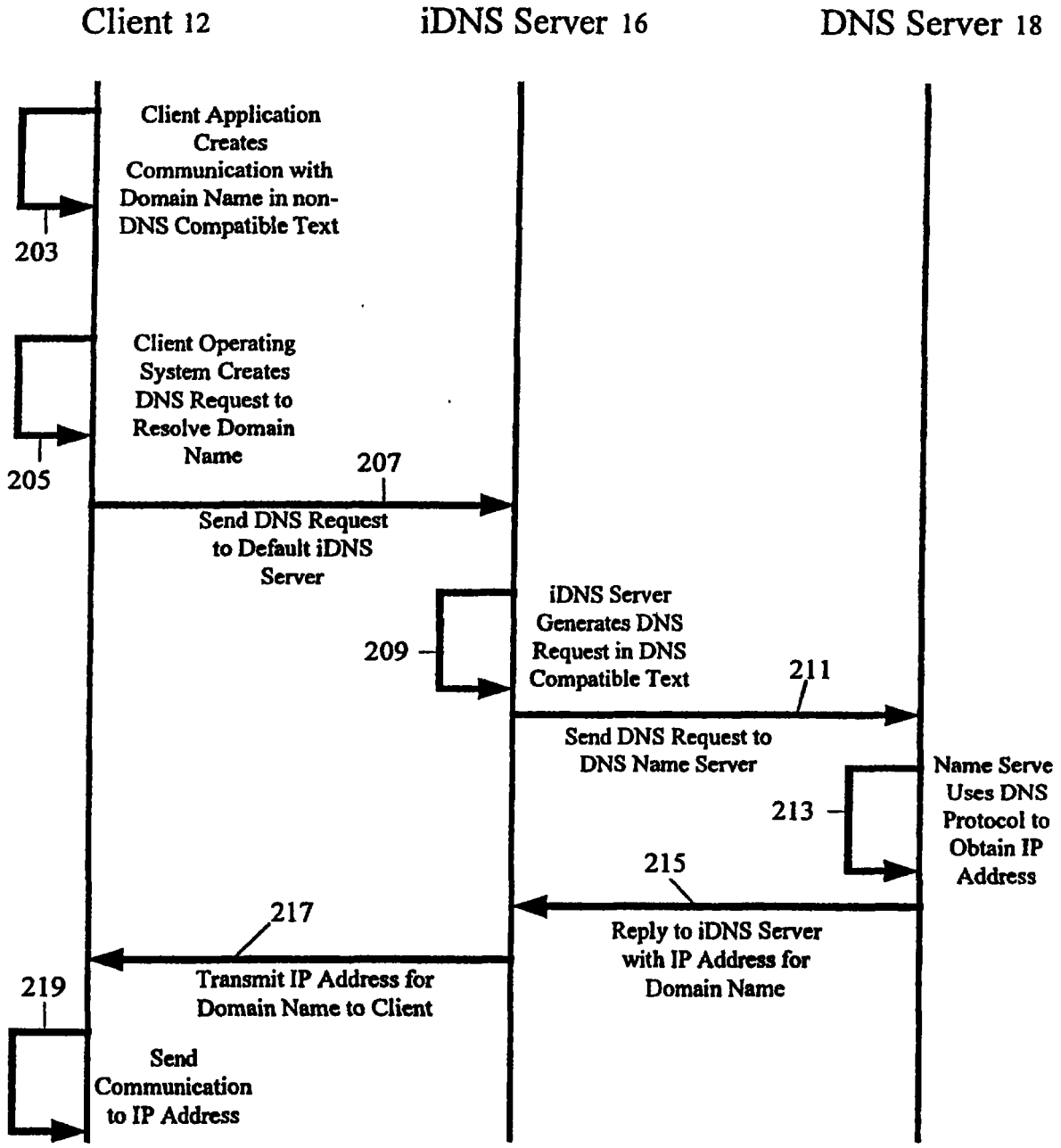


FIGURE 2

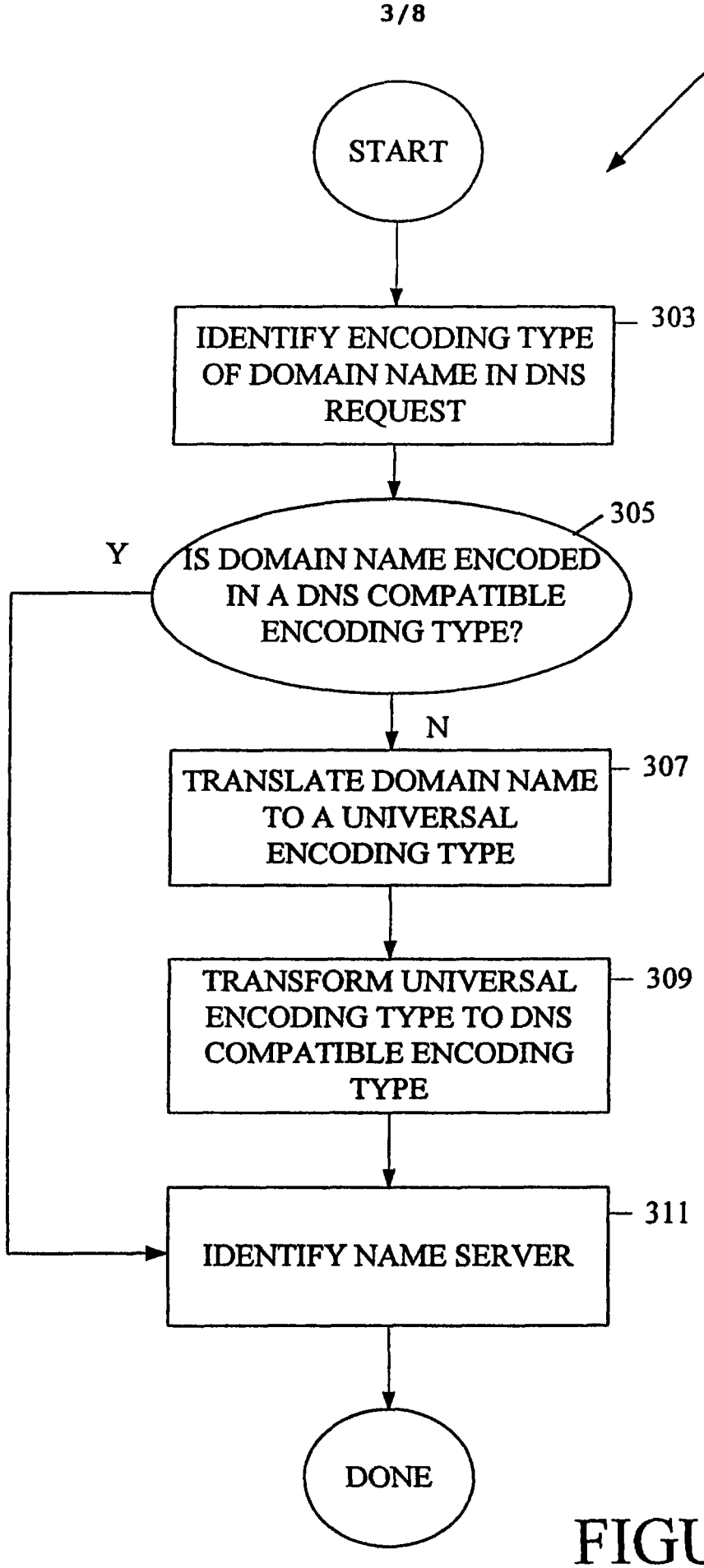

301
START
IDENTIFY ENCODING TYPE OF DOMAIN NAME IN DNS REQUEST
303
IS DOMAIN NAME ENCODED IN A DNS COMPATIBLE ENCODING TYPE?
305
Y
N
TRANSLATE DOMAIN NAME TO A UNIVERSAL ENCODING TYPE
307
TRANSFORM UNIVERSAL ENCODING TYPE TO DNS COMPATIBLE ENCODING TYPE
309
IDENTIFY NAME SERVER
311
DONE

FIGURE 3A

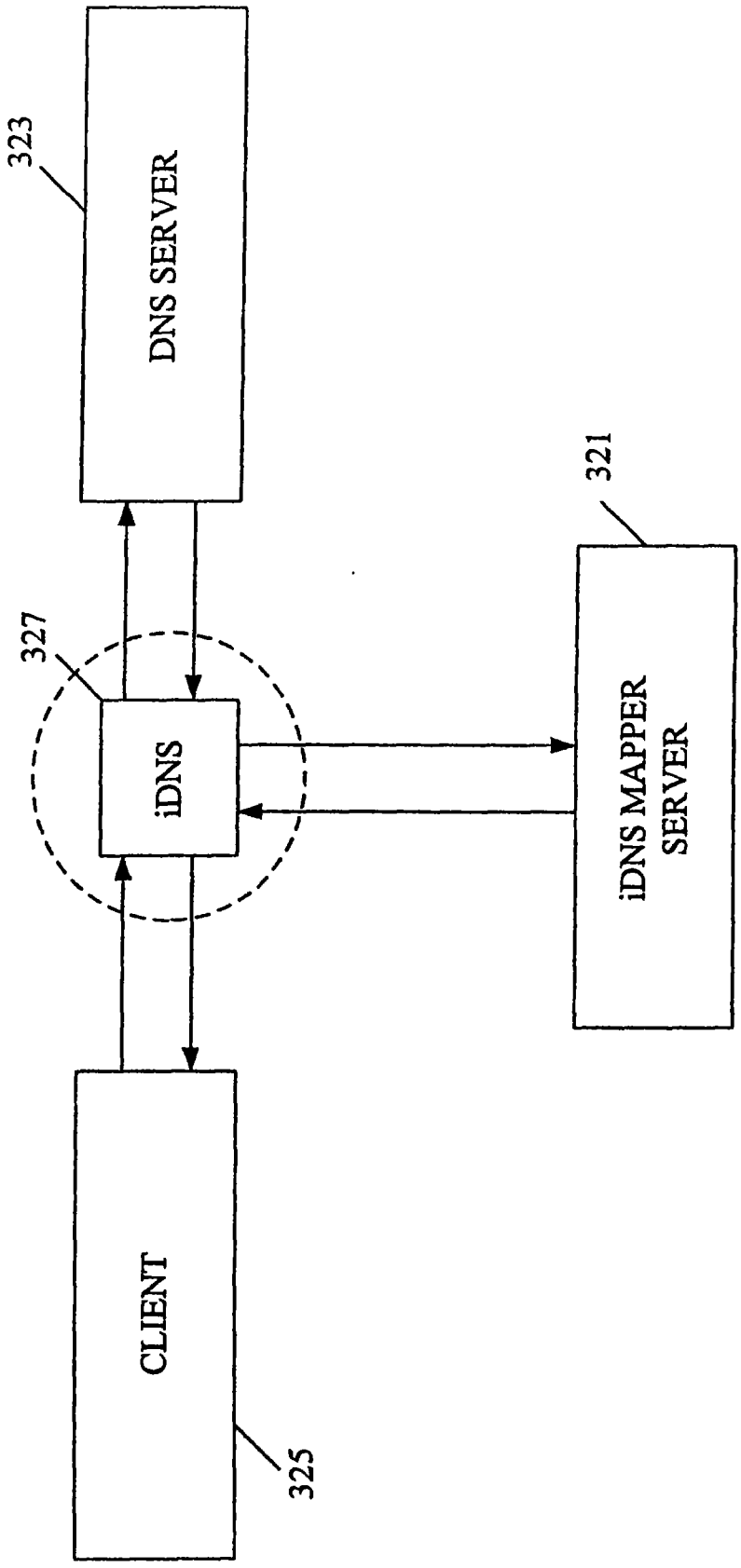


Figure 3B

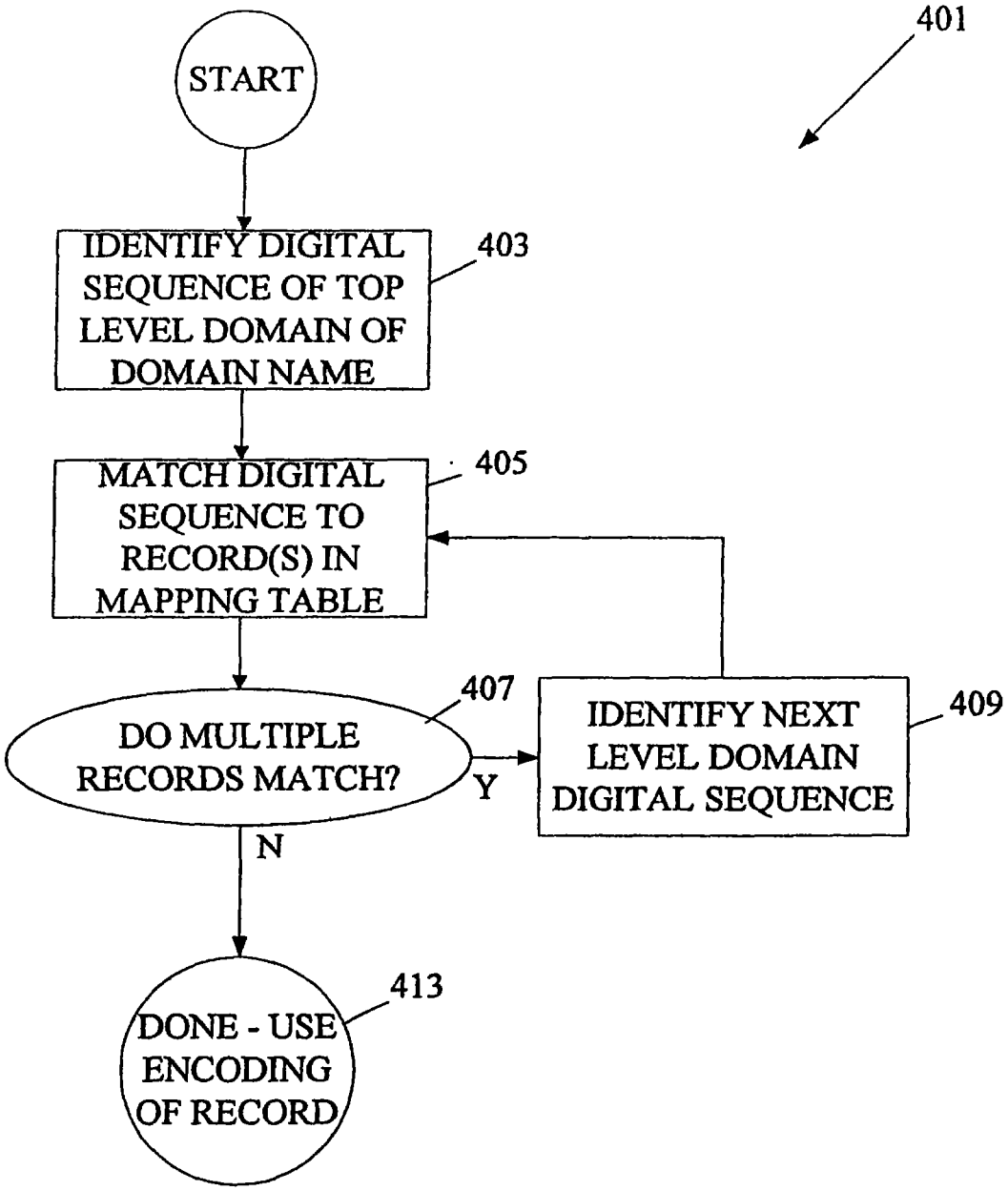

401
START
IDENTIFY DIGITAL SEQUENCE OF TOP LEVEL DOMAIN OF DOMAIN NAME
403
MATCH DIGITAL SEQUENCE TO RECORD(S) IN MAPPING TABLE
405
DO MULTIPLE RECORDS MATCH?
407
Y
IDENTIFY NEXT LEVEL DOMAIN DIGITAL SEQUENCE
409
N
DONE - USE ENCODING OF RECORD
413

FIGURE 4

501

TIME TO LIVE	MIN. CODE RESOLVING STRING	AUTHORITY	ENCODING	TRANSFORM	COMMENTS
604800	R9ABSBBE	.i-dns.com	GB	UTF-5	.com (in Chinese) GB
302400	Q4BDQ571	.i-dns.com	Big5	UTF-5	.com (in Chinese)
57600	R2F1RCD2	.nic.net.jp	EUC	UTF-5	.com (in Japanese)
1209600	O9EFOED0	.nic.net.jp	Shift-JIS	UTF-5	.com (in Japanese)
0	COM	.	ASCII	ASCII	.com (in English)
7200	R971R66C.Q4 BDQ571	.nic.net.sg	Big5	UTF-8	.email.com (in Chinese)

FIGURE 5

30 JUL 2003

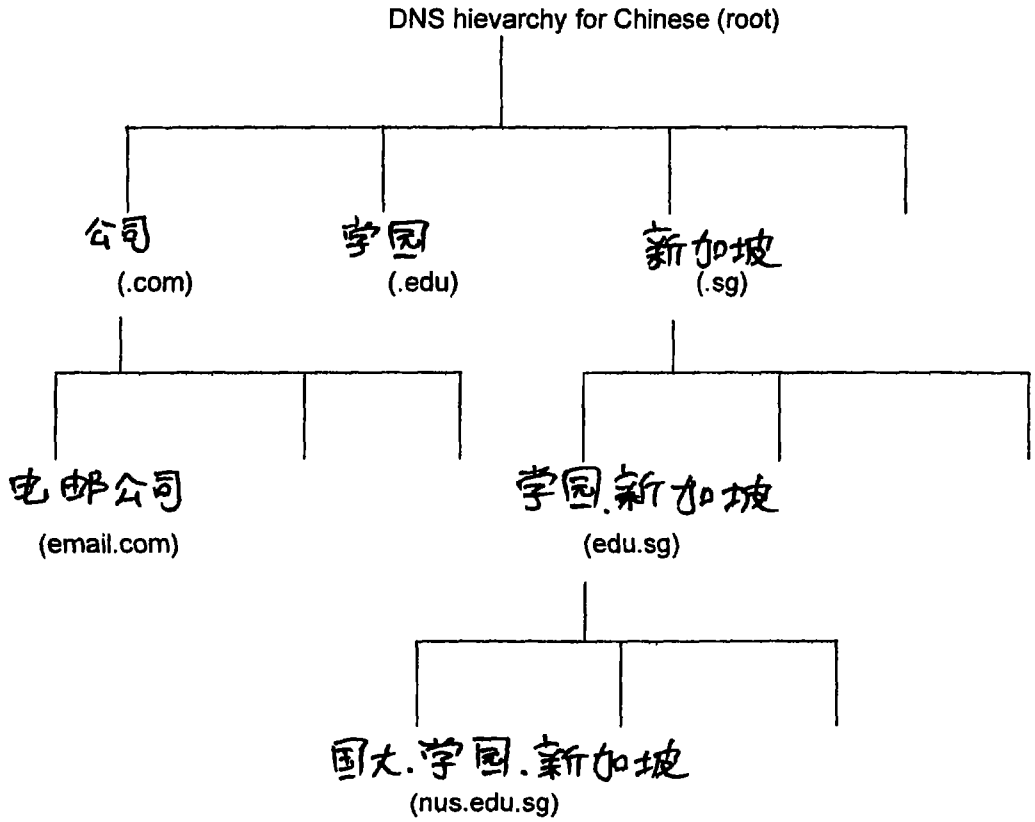

DNS hievarchy for Chinese (root)
公司
(.com)
学园
(.edu)
新加坡
(.sg)
电邮公司
(email.com)
学园.新加坡
(edu.sg)
国大.学园.新加坡
(nus.edu.sg)

FIGURE 6

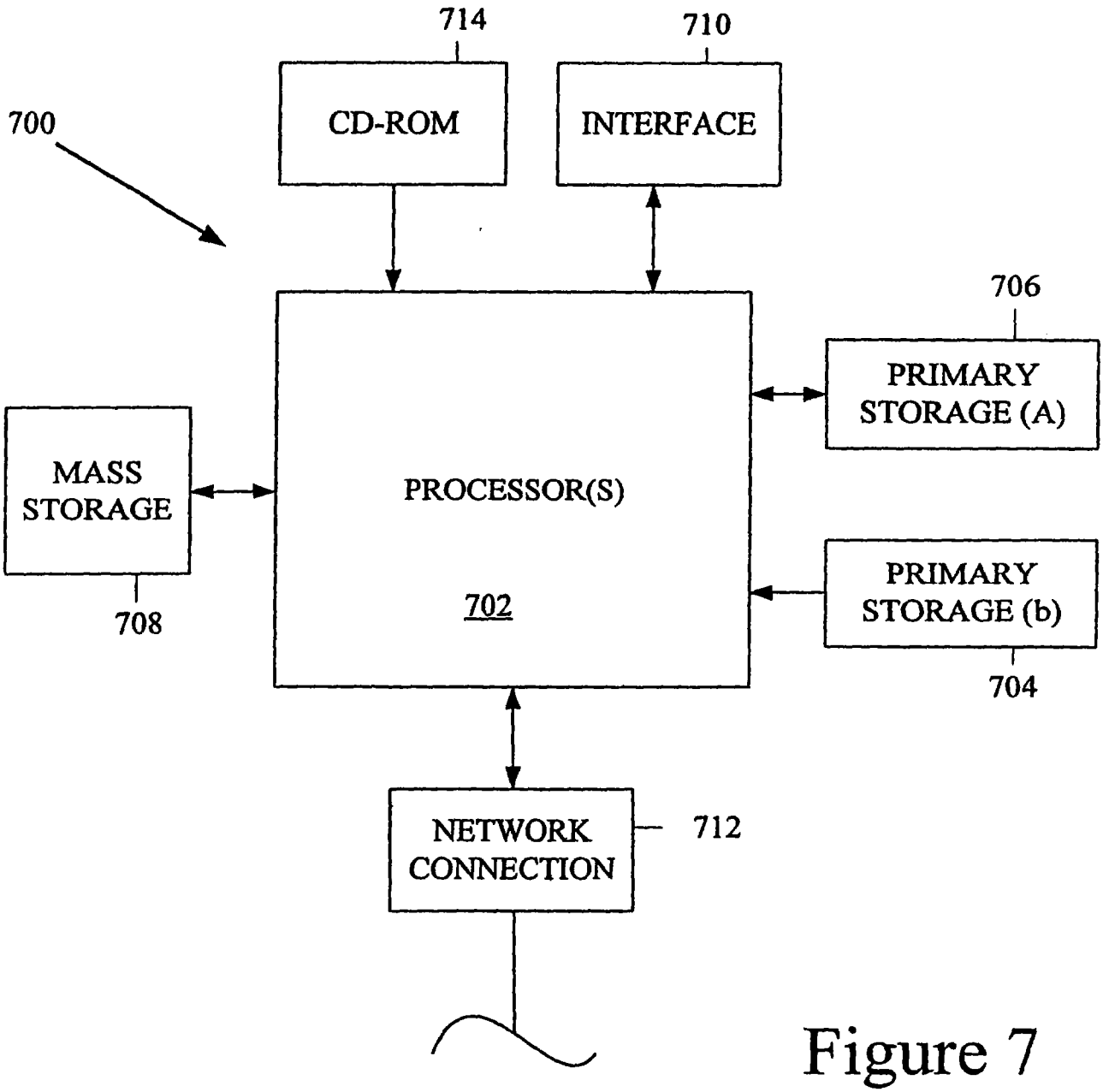

714
710
CD-ROM
INTERFACE
700
706
PRIMARY STORAGE (A)
MASS STORAGE
PROCESSOR(S)
702
PRIMARY STORAGE (b)
708
704
NETWORK CONNECTION
712

Figure 7