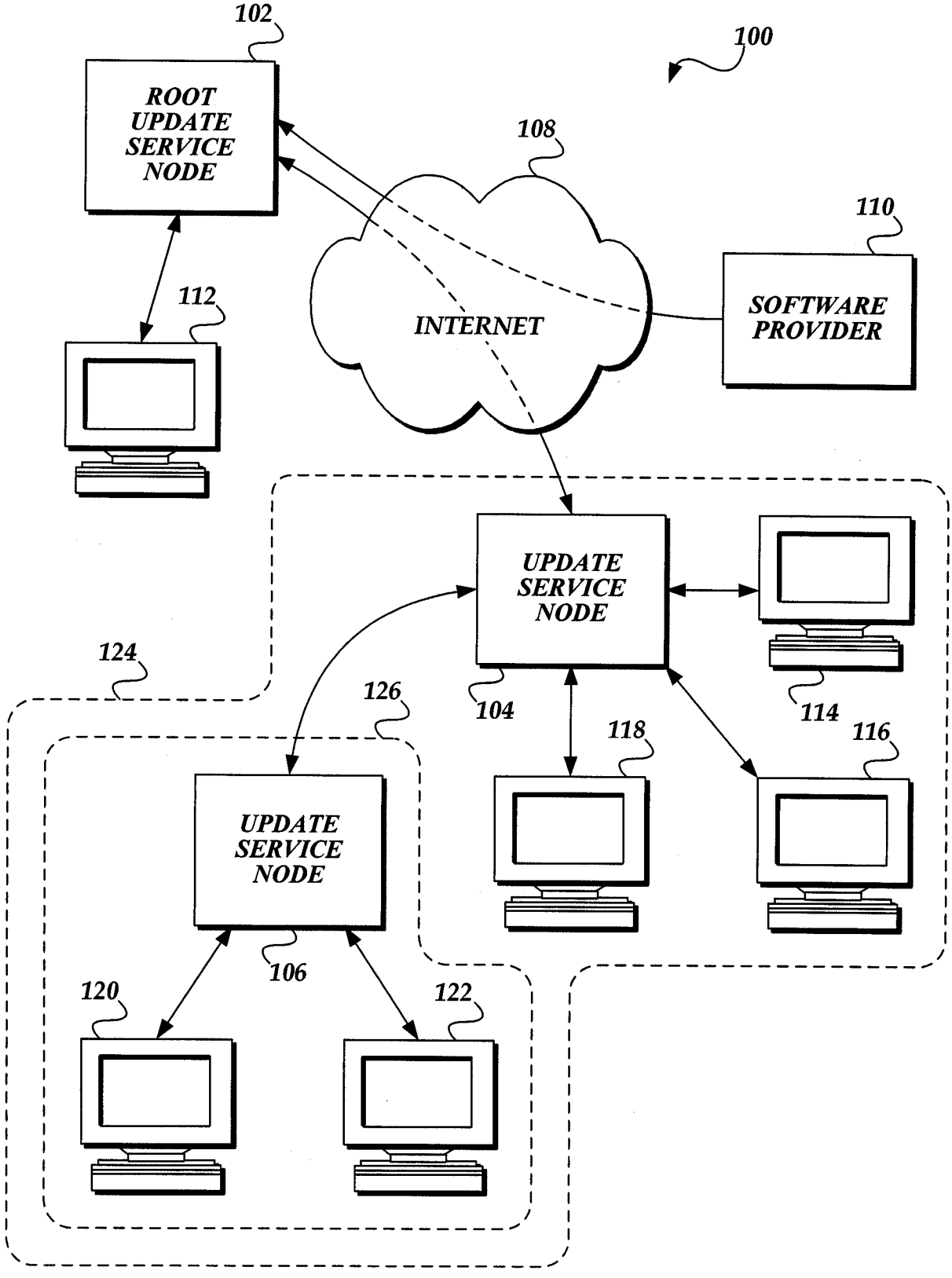

102
100
ROOT UPDATE SERVICE NODE
108
110
112
INTERNET
SOFTWARE PROVIDER
UPDATE SERVICE NODE
124
126
104
114
118
116
UPDATE SERVICE NODE
106
120
122

Fig.1.

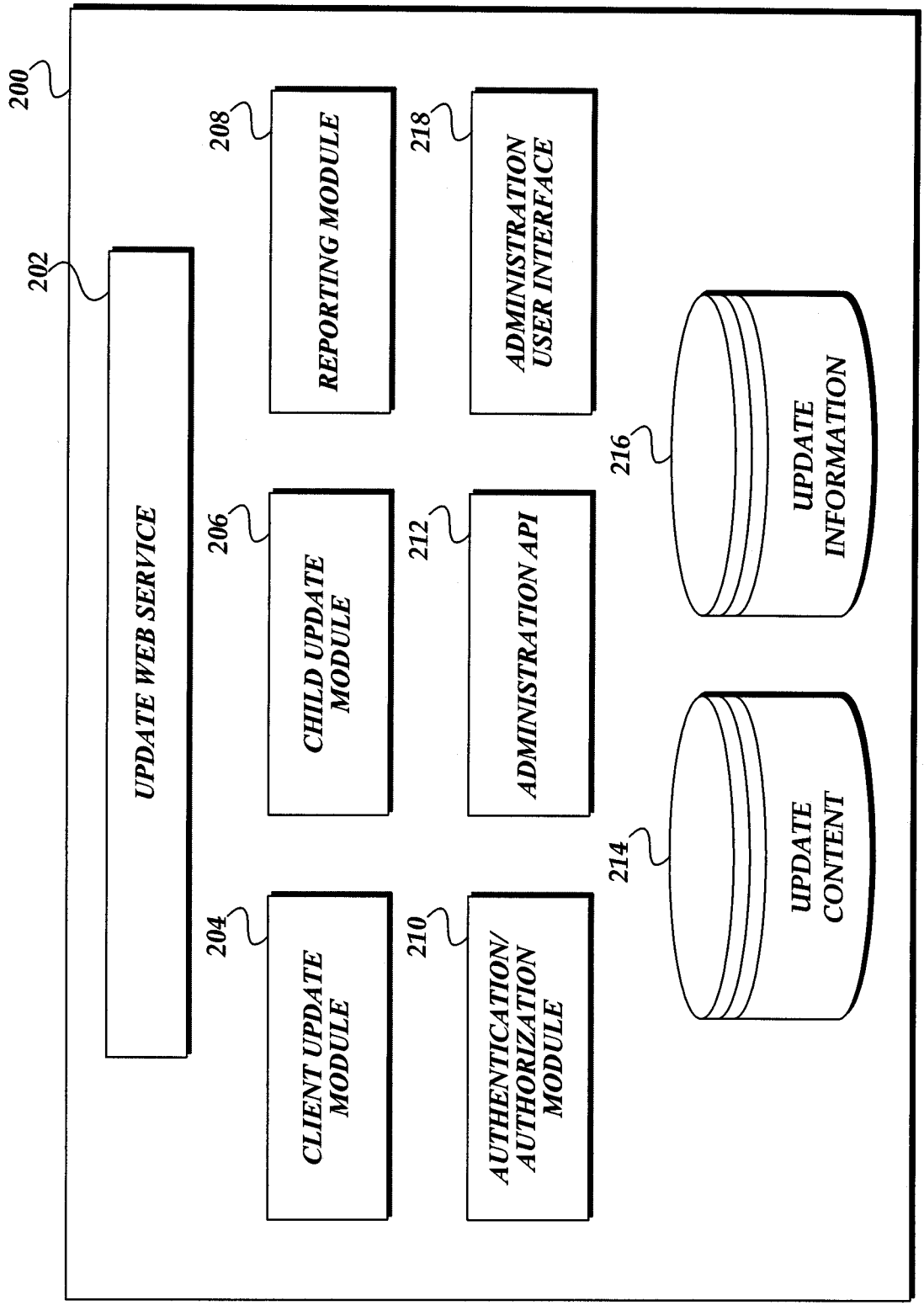

200
202
UPDATE WEB SERVICE
204
CLIENT UPDATE MODULE
206
CHILD UPDATE MODULE
208
REPORTING MODULE
210
AUTHENTICATION/ AUTHORIZATION MODULE
212
ADMINISTRATION API
214
UPDATE CONTENT
216
UPDATE INFORMATION
218
ADMINISTRATION USER INTERFACE

Fig.2.

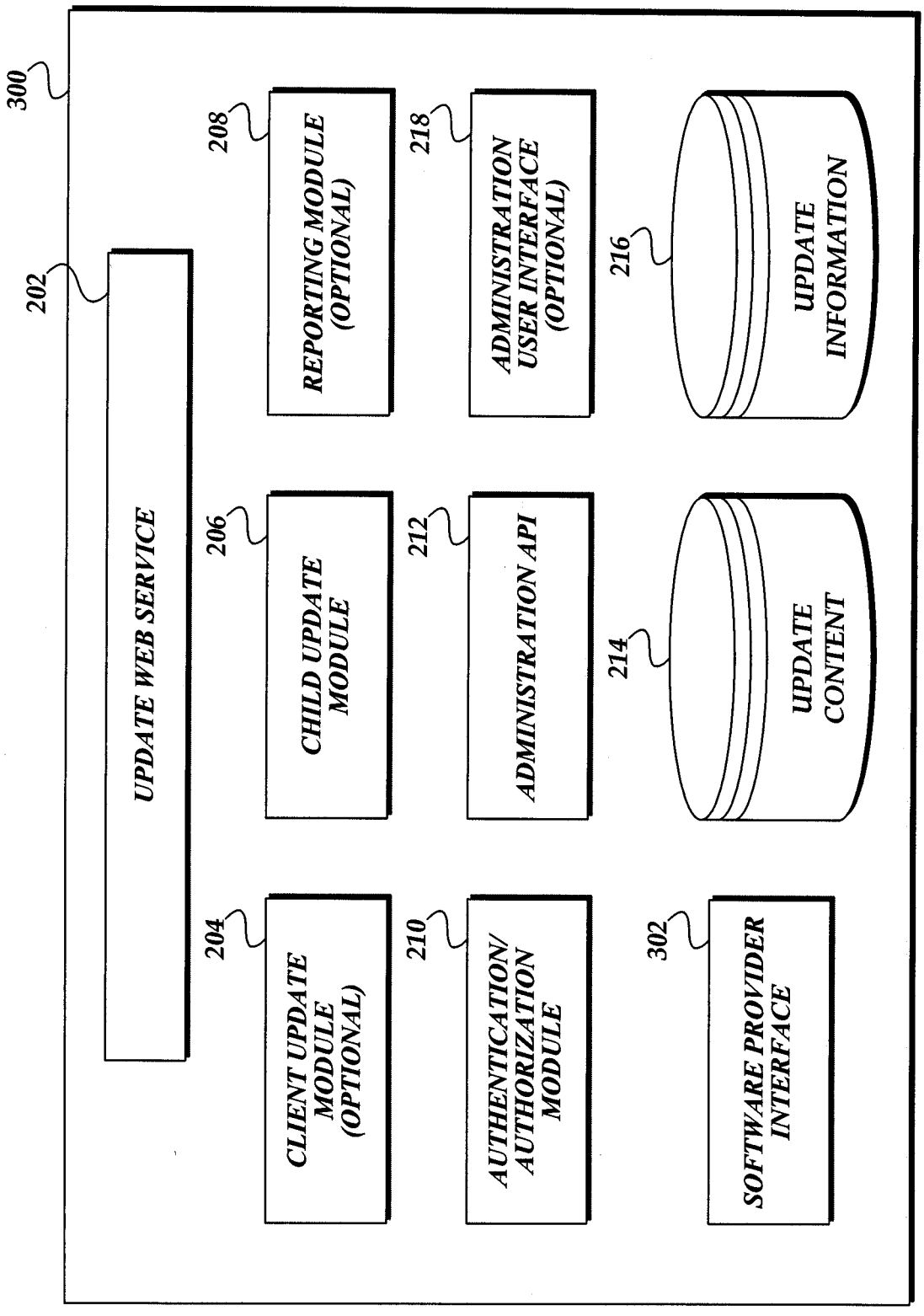

300
202
UPDATE WEB SERVICE
204
CLIENT UPDATE MODULE (OPTIONAL)
206
CHILD UPDATE MODULE
208
REPORTING MODULE (OPTIONAL)
210
AUTHENTICATION/ AUTHORIZATION MODULE
212
ADMINISTRATION API
214
UPDATE CONTENT
216
UPDATE INFORMATION
218
ADMINISTRATION USER INTERFACE (OPTIONAL)
302
SOFTWARE PROVIDER INTERFACE

Fig.3.

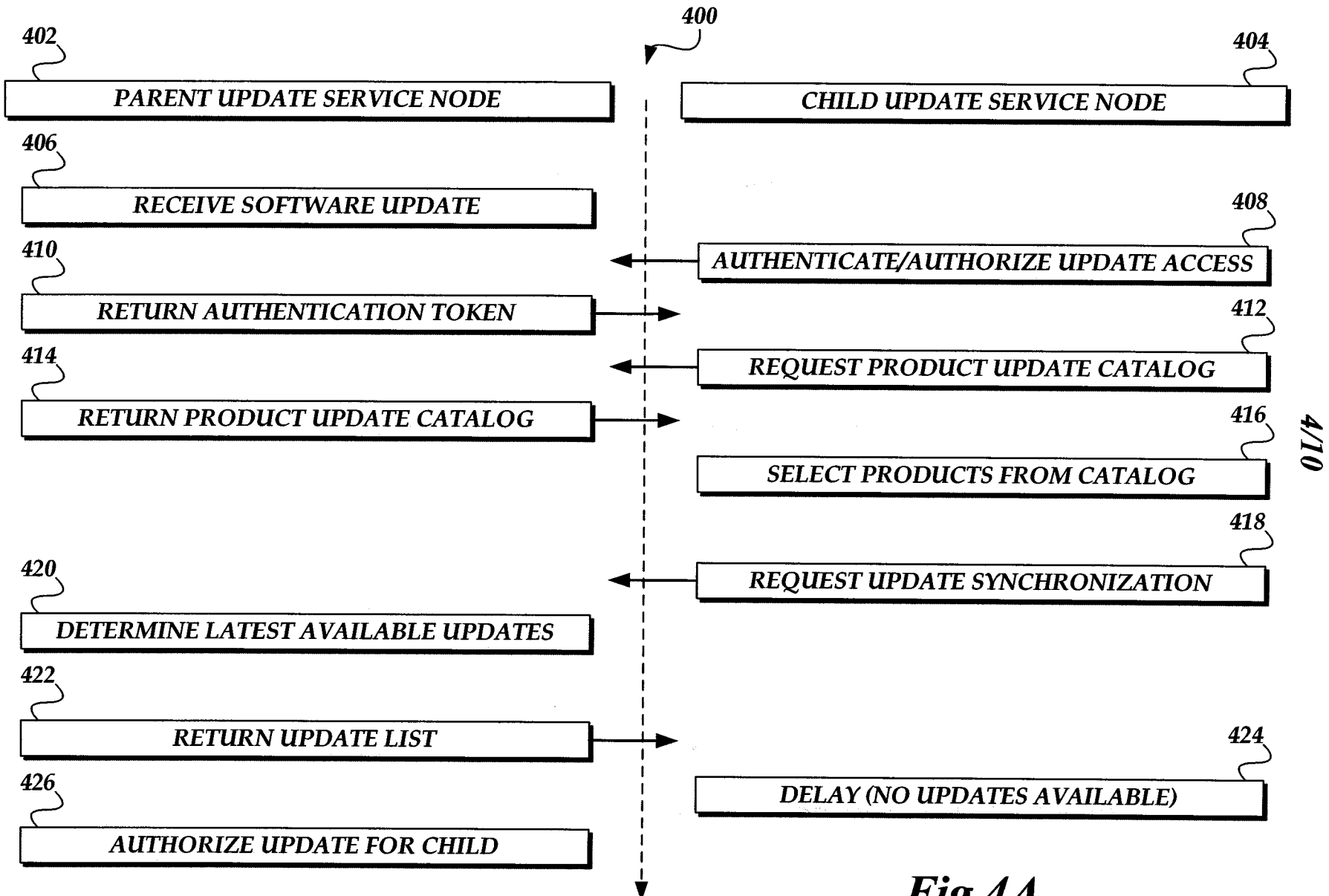

400
402
PARENT UPDATE SERVICE NODE
404
CHILD UPDATE SERVICE NODE
406
RECEIVE SOFTWARE UPDATE
408
AUTHENTICATE/AUTHORIZE UPDATE ACCESS
410
RETURN AUTHENTICATION TOKEN
412
REQUEST PRODUCT UPDATE CATALOG
414
RETURN PRODUCT UPDATE CATALOG
416
SELECT PRODUCTS FROM CATALOG
418
REQUEST UPDATE SYNCHRONIZATION
420
DETERMINE LATEST AVAILABLE UPDATES
422
RETURN UPDATE LIST
424
DELAY (NO UPDATES AVAILABLE)
426
AUTHORIZE UPDATE FOR CHILD

Fig.4A.

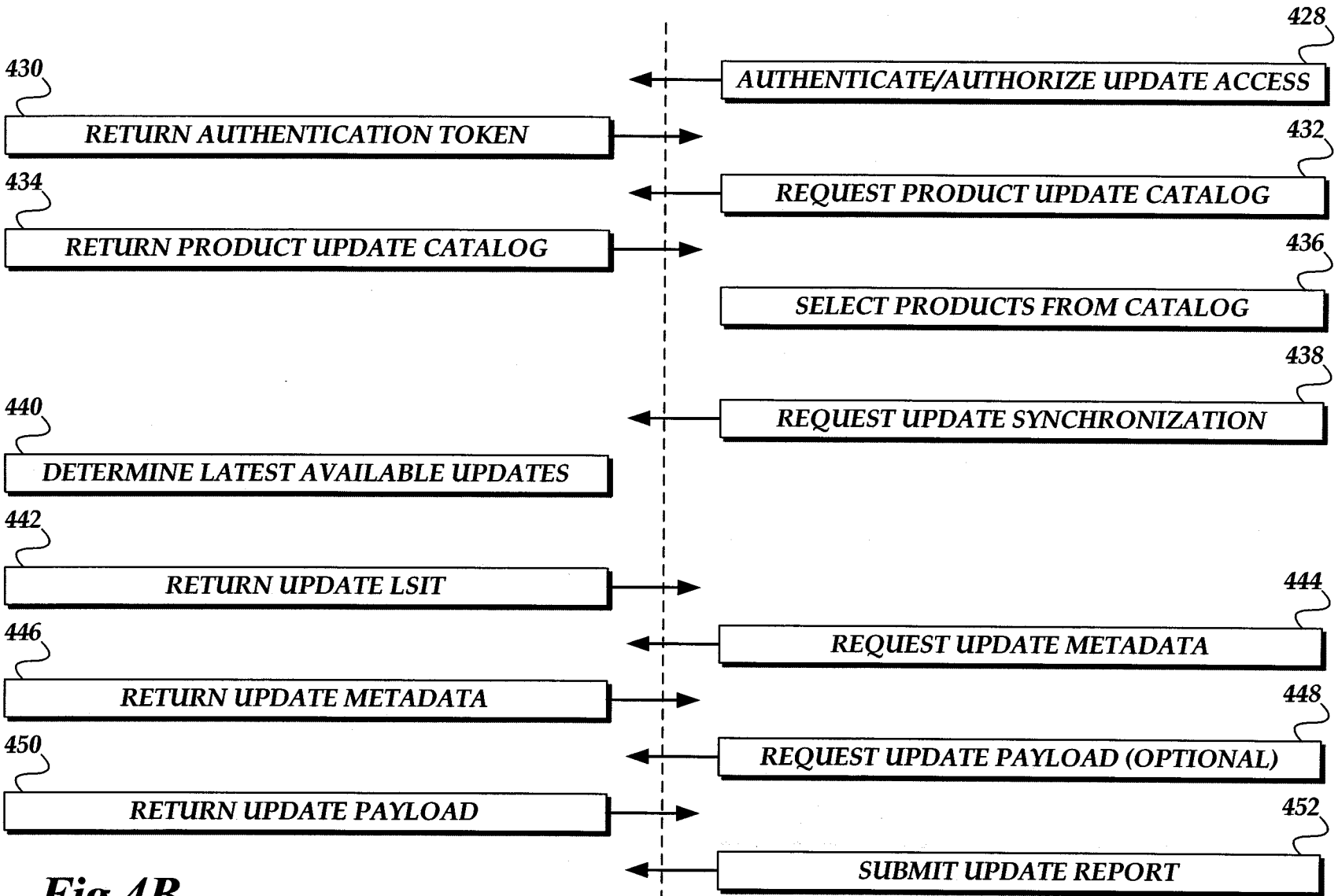

428
AUTHENTICATE/AUTHORIZE UPDATE ACCESS
430
RETURN AUTHENTICATION TOKEN
432
REQUEST PRODUCT UPDATE CATALOG
434
RETURN PRODUCT UPDATE CATALOG
436
SELECT PRODUCTS FROM CATALOG
438
REQUEST UPDATE SYNCHRONIZATION
440
DETERMINE LATEST AVAILABLE UPDATES
442
RETURN UPDATE LSIT
444
REQUEST UPDATE METADATA
446
RETURN UPDATE METADATA
448
REQUEST UPDATE PAYLOAD (OPTIONAL)
450
RETURN UPDATE PAYLOAD
452
SUBMIT UPDATE REPORT

Fig.4B.

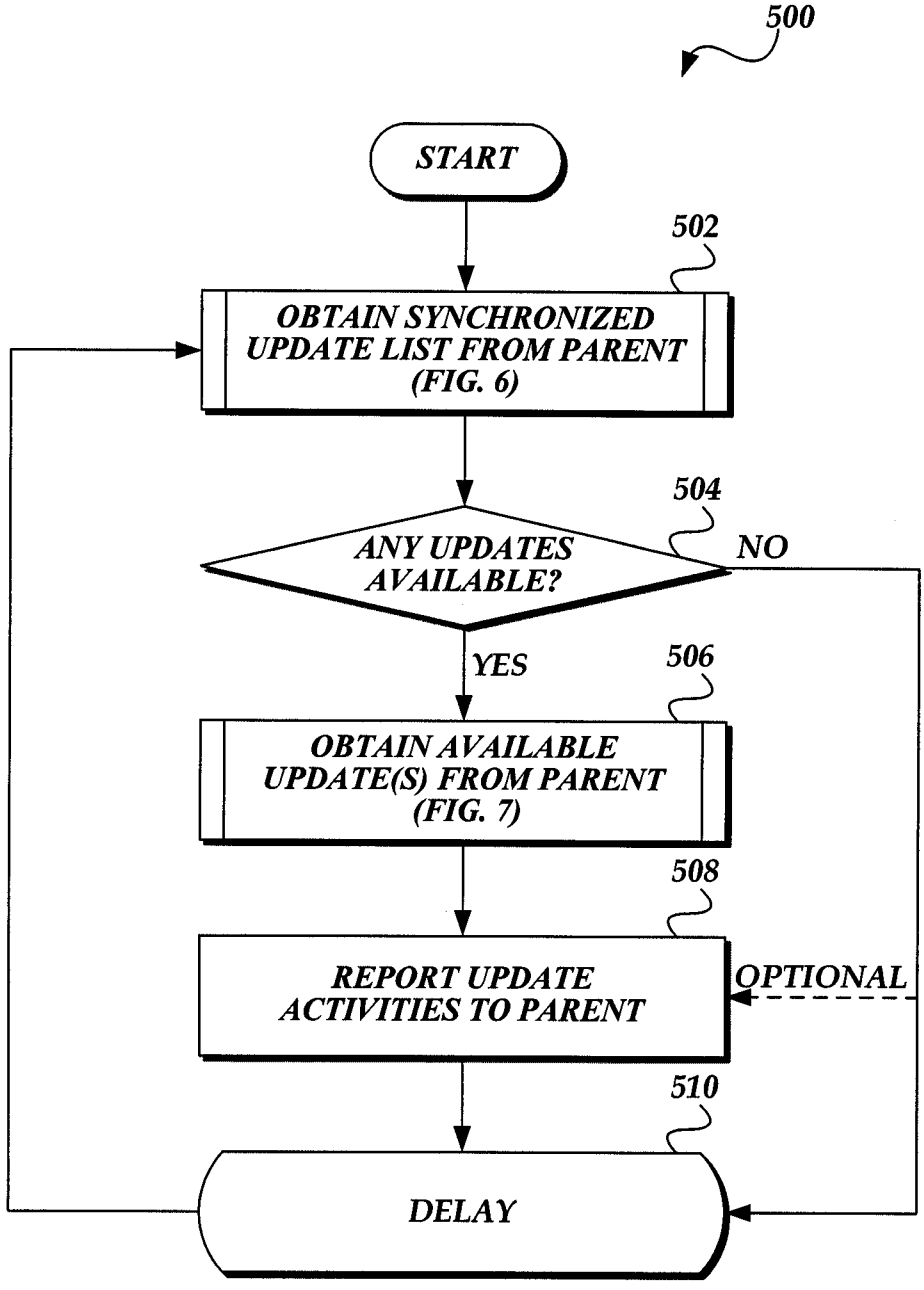

500
START
502
OBTAIN SYNCHRONIZED UPDATE LIST FROM PARENT (FIG. 6)
504
ANY UPDATES AVAILABLE?
NO
YES
506
OBTAIN AVAILABLE UPDATE(S) FROM PARENT (FIG. 7)
508
REPORT UPDATE ACTIVITIES TO PARENT
OPTIONAL
510
DELAY

Fig.5.

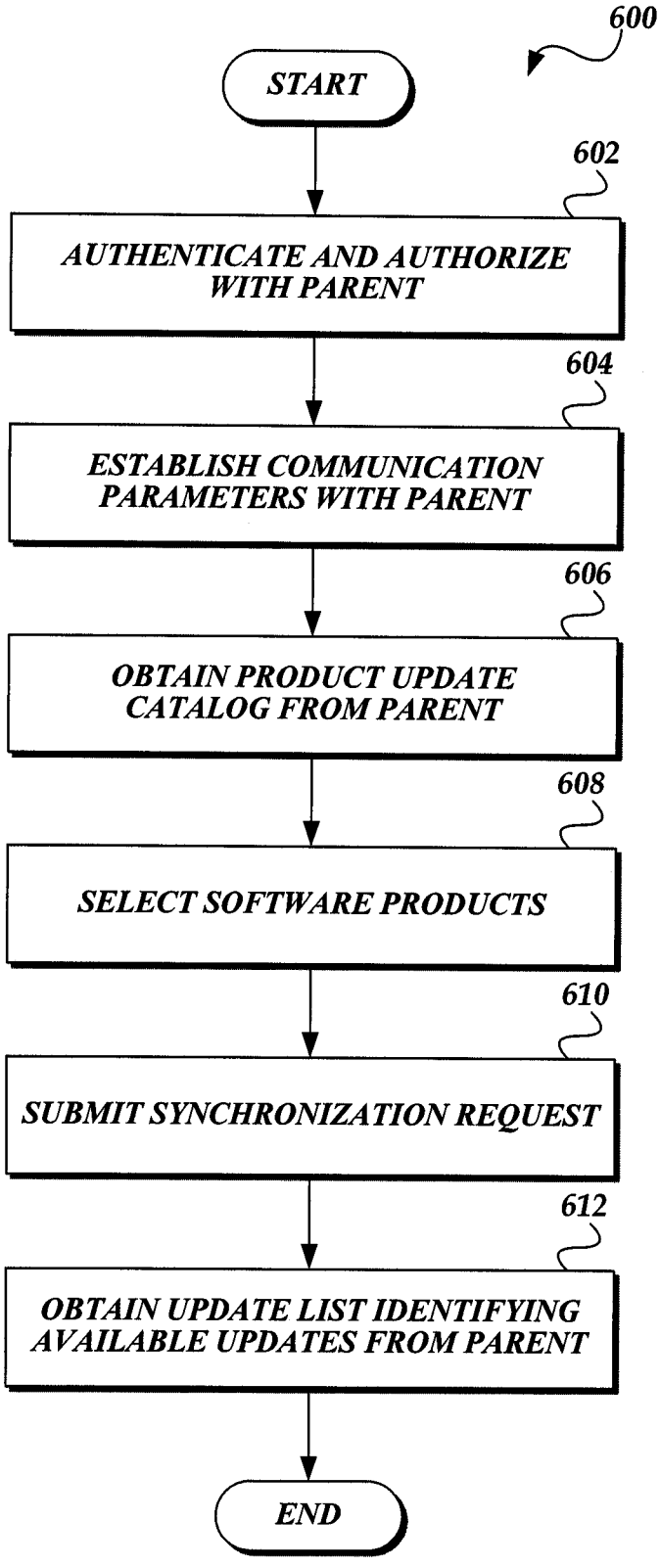

600
START
602
AUTHENTICATE AND AUTHORIZE WITH PARENT
604
ESTABLISH COMMUNICATION PARAMETERS WITH PARENT
606
OBTAIN PRODUCT UPDATE CATALOG FROM PARENT
608
SELECT SOFTWARE PRODUCTS
610
SUBMIT SYNCHRONIZATION REQUEST
612
OBTAIN UPDATE LIST IDENTIFYING AVAILABLE UPDATES FROM PARENT
END

Fig.6.

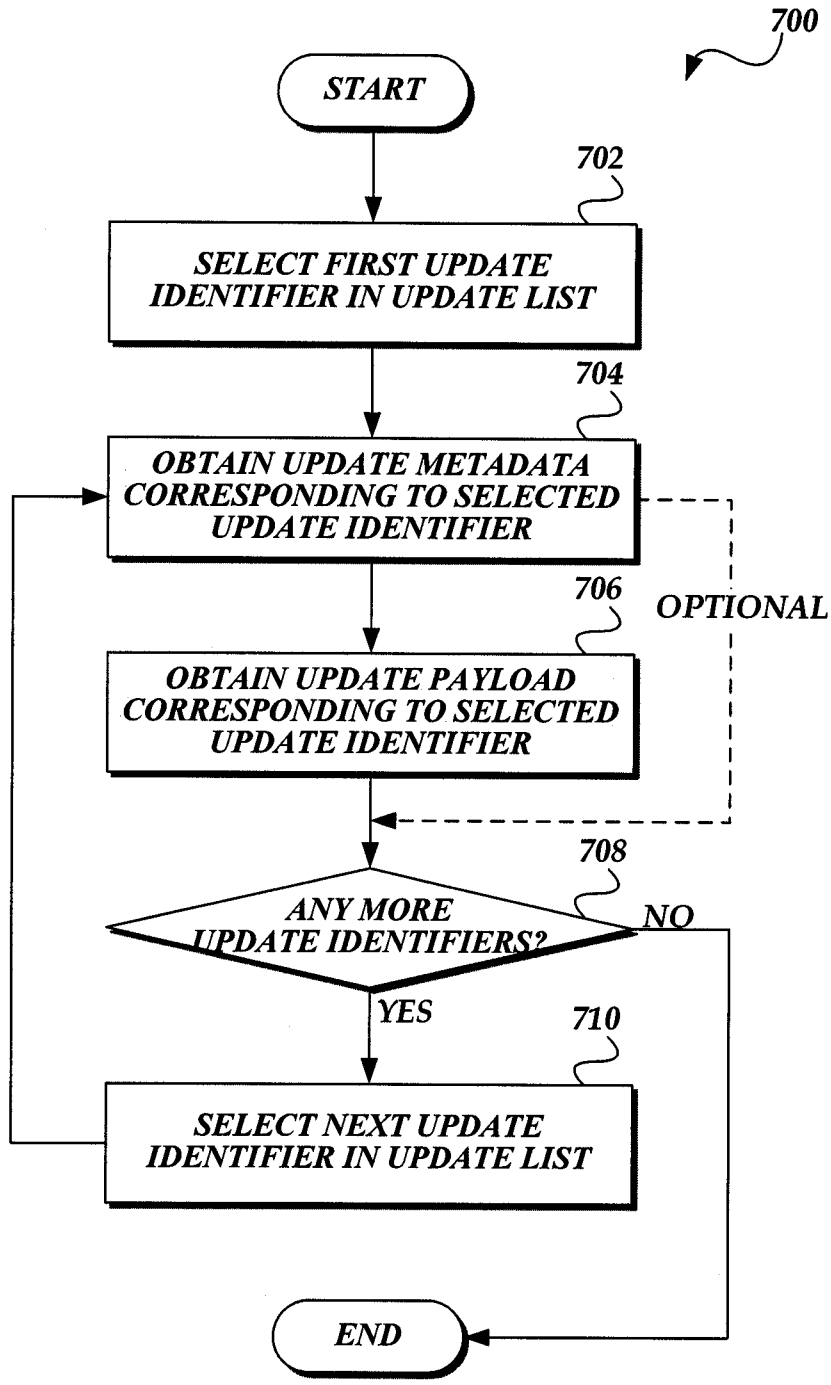

700
START
702
SELECT FIRST UPDATE IDENTIFIER IN UPDATE LIST
704
OBTAIN UPDATE METADATA CORRESPONDING TO SELECTED UPDATE IDENTIFIER
706
OPTIONAL
OBTAIN UPDATE PAYLOAD CORRESPONDING TO SELECTED UPDATE IDENTIFIER
708
ANY MORE UPDATE IDENTIFIERS?
NO
YES
710
SELECT NEXT UPDATE IDENTIFIER IN UPDATE LIST
END

Fig. 7.

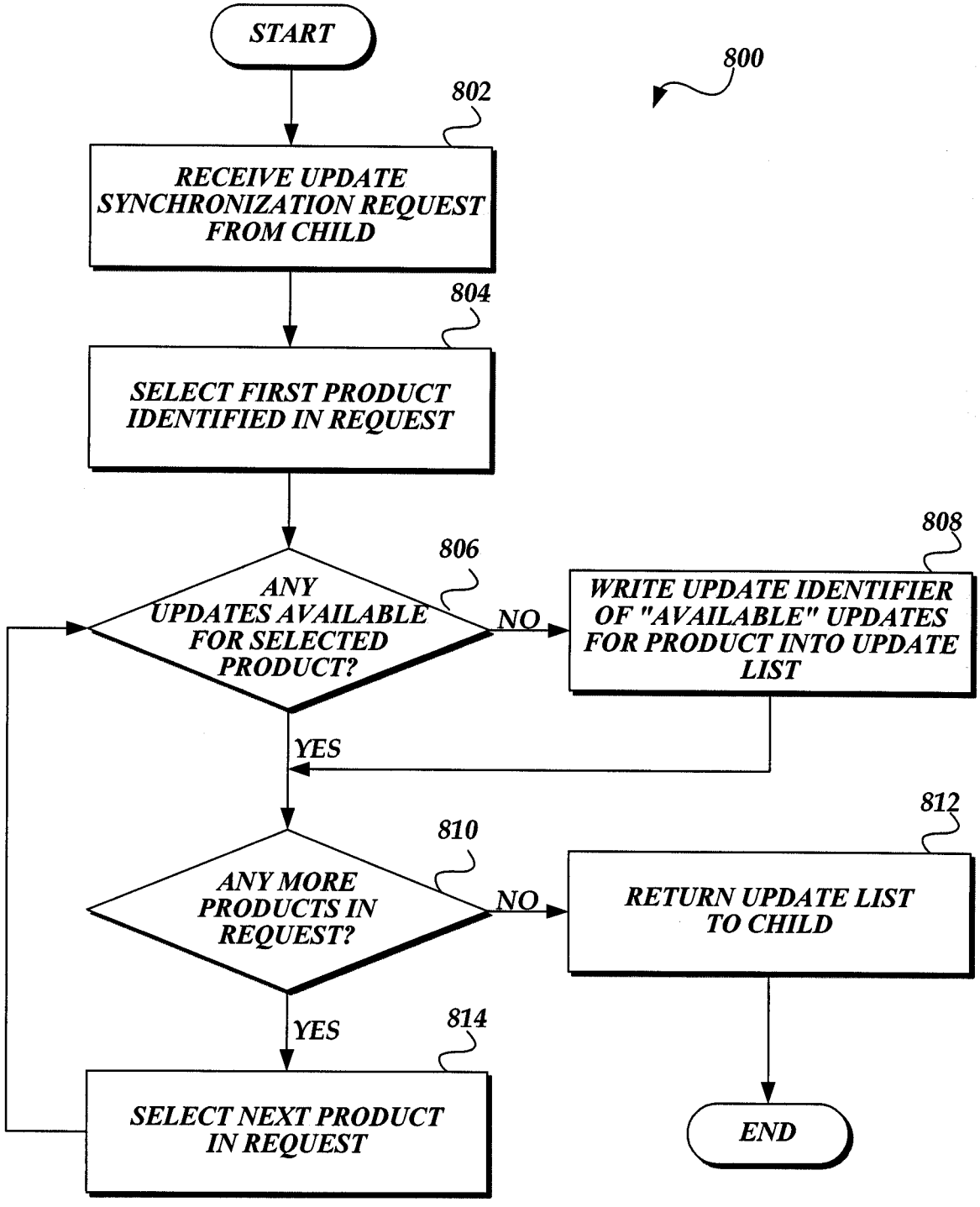

START
800
802
RECEIVE UPDATE SYNCHRONIZATION REQUEST FROM CHILD
804
SELECT FIRST PRODUCT IDENTIFIED IN REQUEST
806
ANY UPDATES AVAILABLE FOR SELECTED PRODUCT?
NO
808
WRITE UPDATE IDENTIFIER OF "AVAILABLE" UPDATES FOR PRODUCT INTO UPDATE LIST
YES
810
ANY MORE PRODUCTS IN REQUEST?
NO
812
RETURN UPDATE LIST TO CHILD
YES
814
SELECT NEXT PRODUCT IN REQUEST
END

Fig.8.

```
<?xml version="1.0" encoding="UTF-8" ?>

<schema targetNamespace="http://schemas.microsoft.com/msus/2002/12/Update"
     xmlns="http://www.w3.org/2001/XMLSchema"
     xmlns:upd="http://schemas.microsoft.com/msus/2002/12/Update"
     xmlns:bt="http://schemas.microsoft.com/msus/2002/12/BaseTypes"
     elementFormDefault="qualified" attributeFormDefault="unqualified">

  <element name="Update" type="upd:Update" />

  <complexType name="Update">

     <sequence>

       <element name="UpdateIdentity" type="upd:UpdateIdentity" />
       <element name="Properties" type="upd:Properties" minOccurs="0" />
       <element name="LocalizedPropertiesCollection"
                type="upd:LocalizedPropertiesCollection" minOccurs="0" />
       <element name="Relationships" type="upd:Relationships" minOccurs="0" />
       <element name="ApplicabilityRules" type="upd:ApplicabilityRules"
                minOccurs="0" />
       <element name="Files" type="upd:Files" minOccurs="0" />
       <element name="HandlerSpecificData" type="upd:HandlerSpecificData"
                minOccurs="0" />

     </sequence>

  </complexType>
     •
     •
     •
</schema>
```

900

902

904

906

908

910

912

914

916

918

10/10

Fig.9.