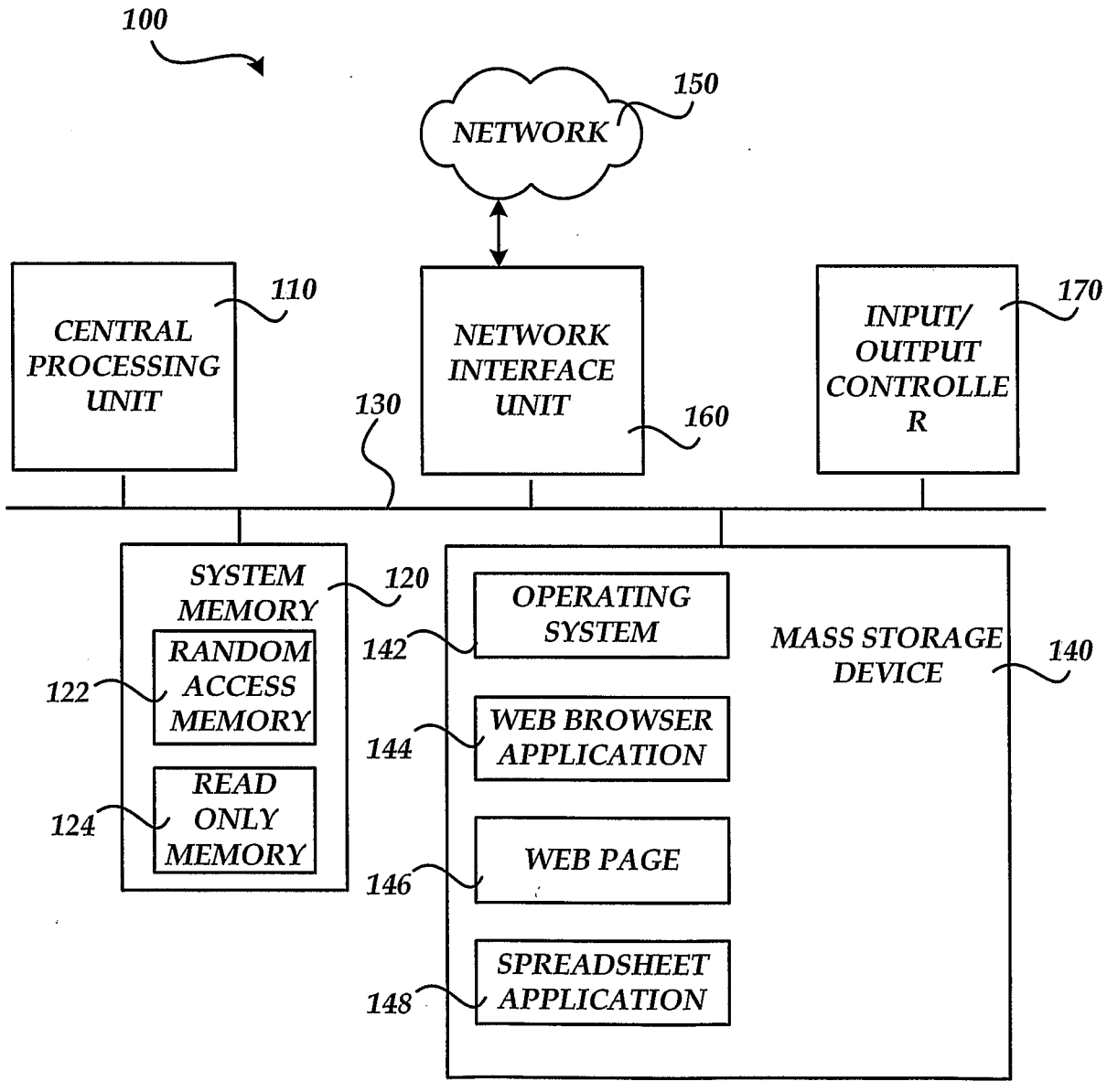

100
NETWORK
150
CENTRAL PROCESSING UNIT
110
NETWORK INTERFACE UNIT
160
130
INPUT/ OUTPUT CONTROLLE R
170
SYSTEM MEMORY
120
RANDOM ACCESS MEMORY
122
READ ONLY MEMORY
124
OPERATING SYSTEM
142
WEB BROWSER APPLICATION
144
WEB PAGE
146
SPREADSHEET APPLICATION
148
MASS STORAGE DEVICE
140

Fig. 1

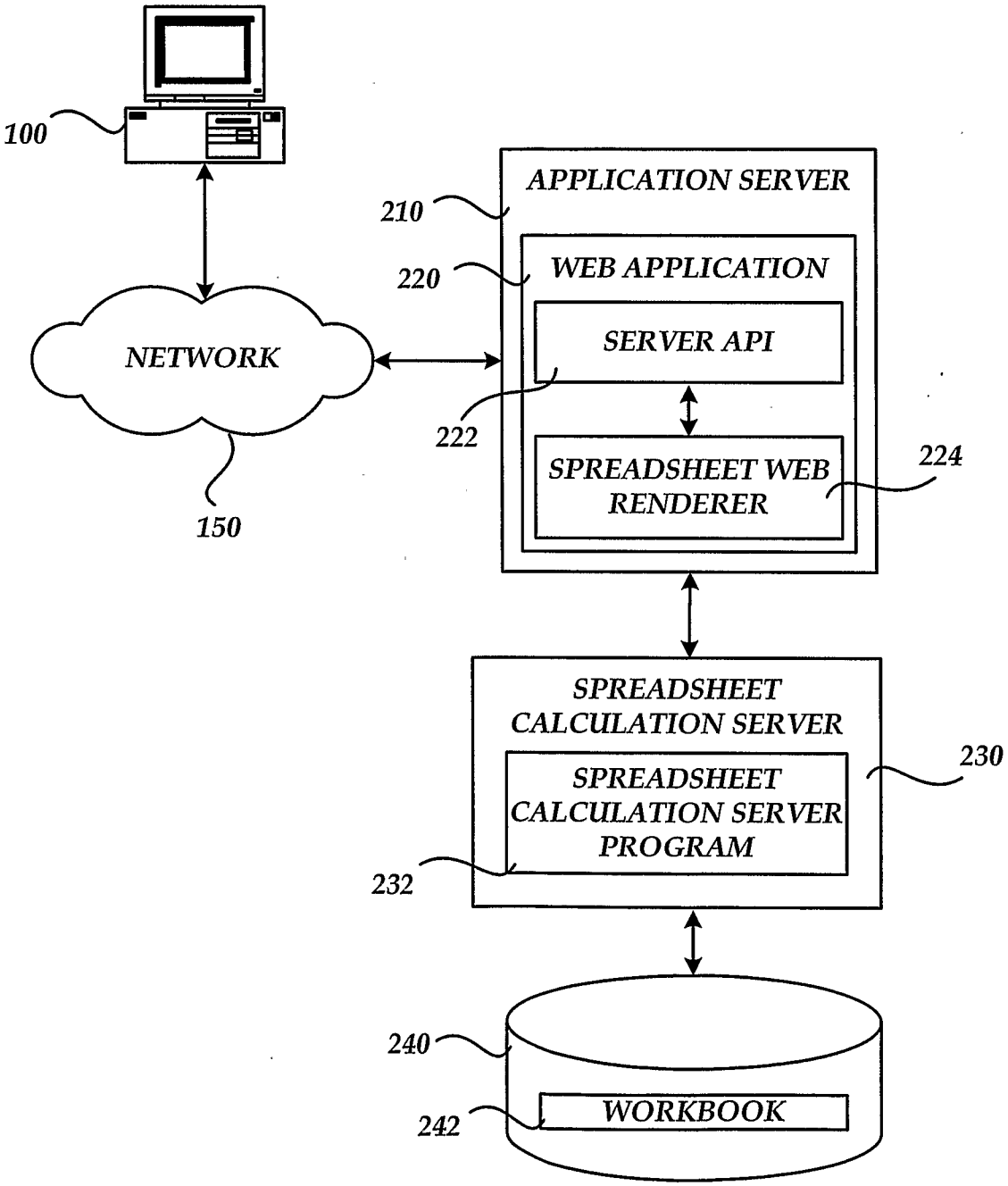

100
APPLICATION SERVER
210
WEB APPLICATION
220
SERVER API
NETWORK
222
SPREADSHEET WEB RENDERER
224
150
SPREADSHEET CALCULATION SERVER
230
SPREADSHEET CALCULATION SERVER PROGRAM
232
240
WORKBOOK
242

Fig. 2

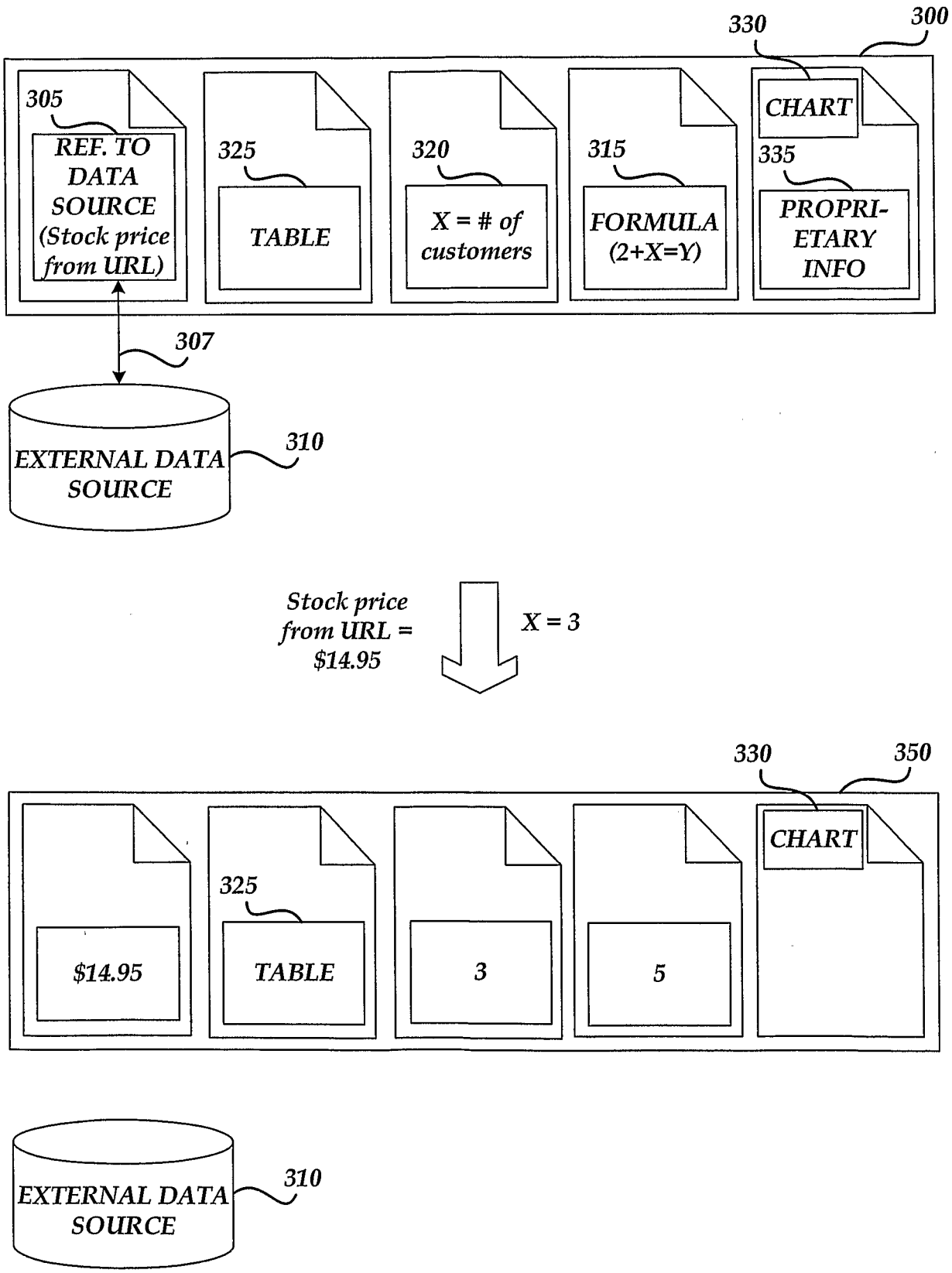

330
300
305
REF. TO DATA SOURCE (Stock price from URL)
325
TABLE
320
X = # of customers
315
FORMULA (2+X=Y)
CHART
335
PROPRI-ETARY INFO
307
EXTERNAL DATA SOURCE
310
Stock price from URL = $14.95
X = 3
330
350
$14.95
325
TABLE
3
5
CHART
EXTERNAL DATA SOURCE
310

Fig. 3

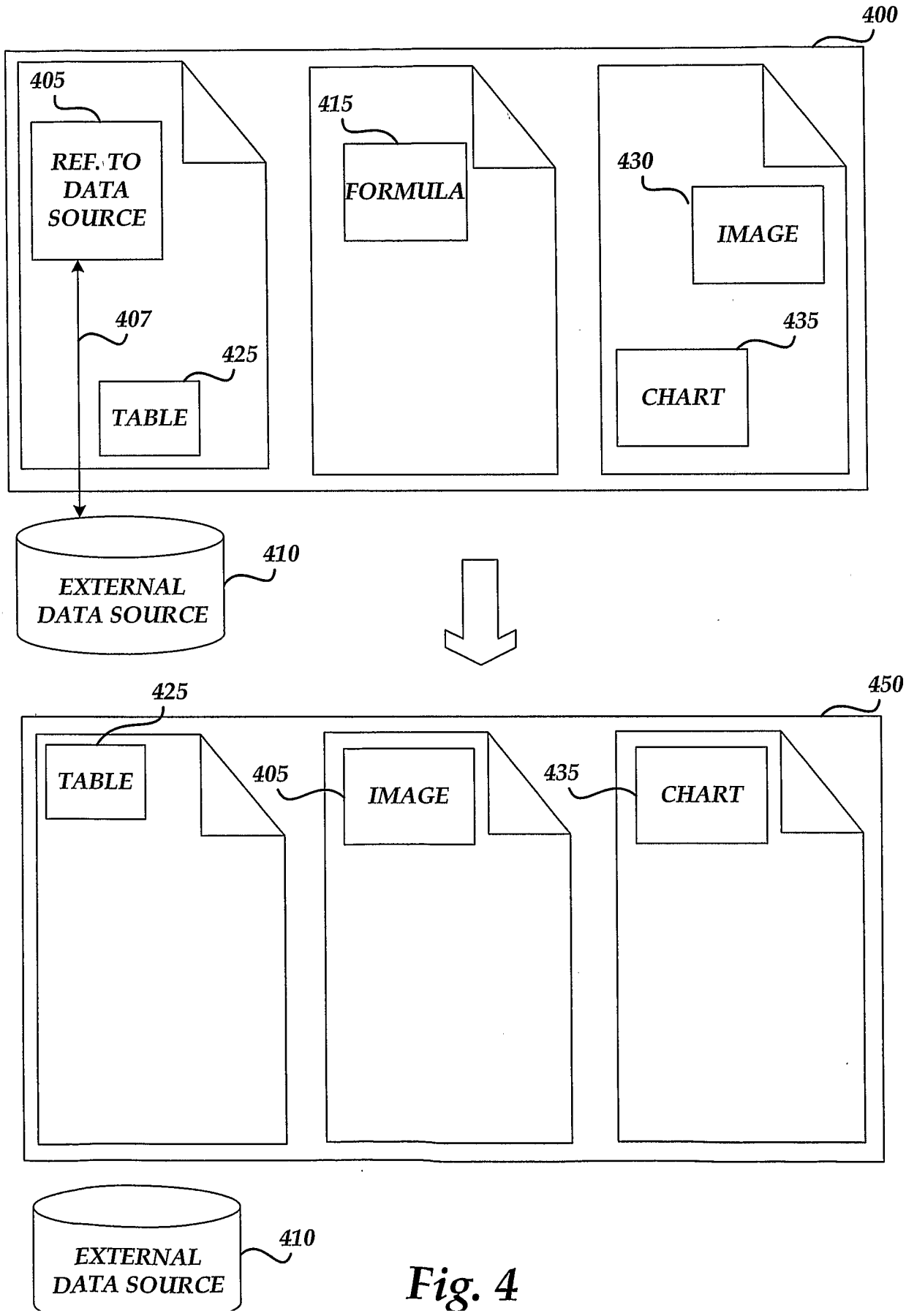

400
405
REF. TO DATA SOURCE
415
FORMULA
430
IMAGE
435
CHART
407
425
TABLE
410
EXTERNAL DATA SOURCE
425
450
TABLE
405
IMAGE
435
CHART
410
EXTERNAL DATA SOURCE

Fig. 4

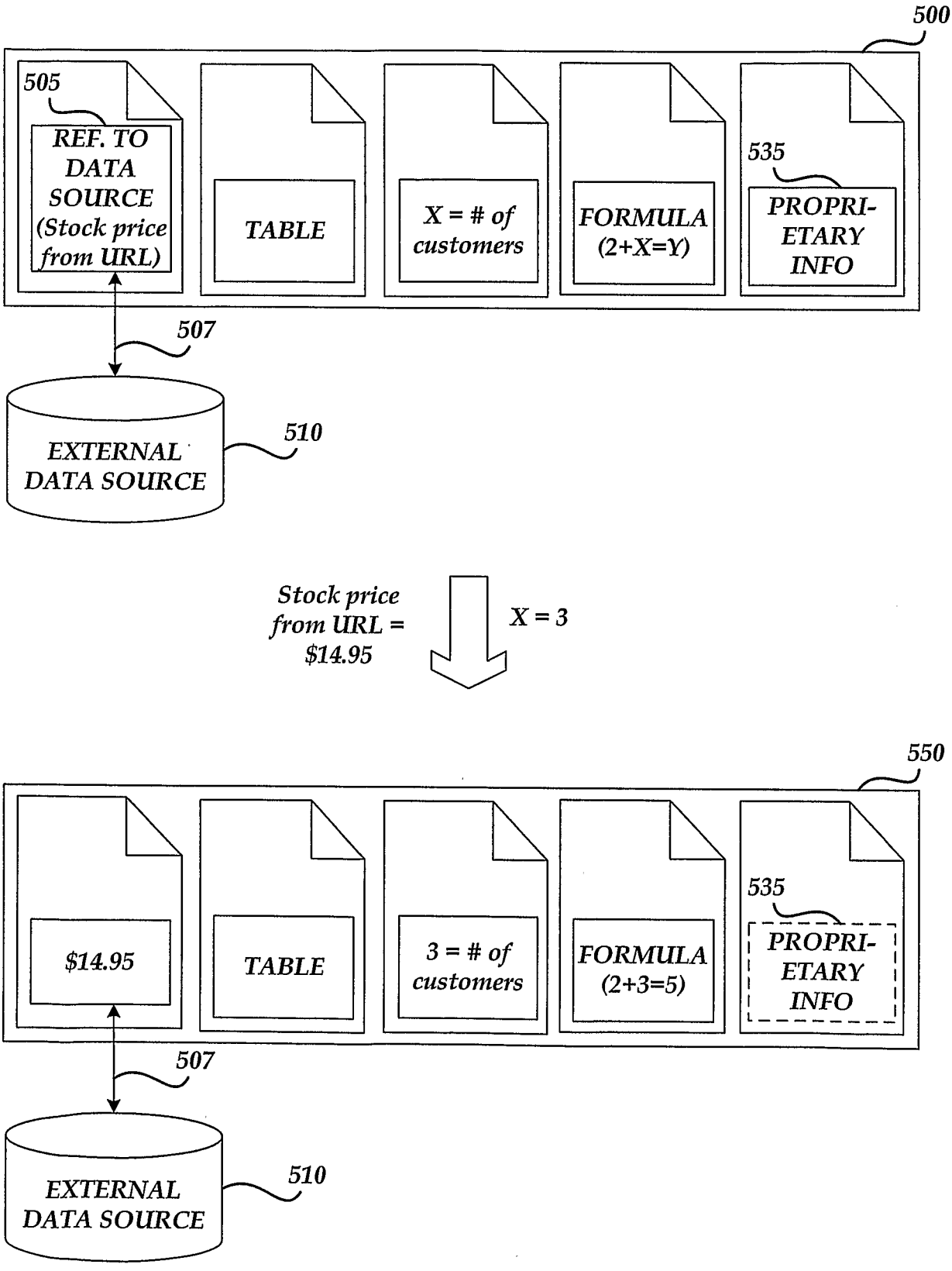

500
505
REF. TO DATA SOURCE (Stock price from URL)
TABLE
X = # of customers
FORMULA (2+X=Y)
535
PROPRI-ETARY INFO
507
EXTERNAL DATA SOURCE
510
Stock price from URL = $14.95
X = 3
550
$14.95
TABLE
3 = # of customers
FORMULA (2+3=5)
535
PROPRI-ETARY INFO
507
EXTERNAL DATA SOURCE
510

Fig. 5

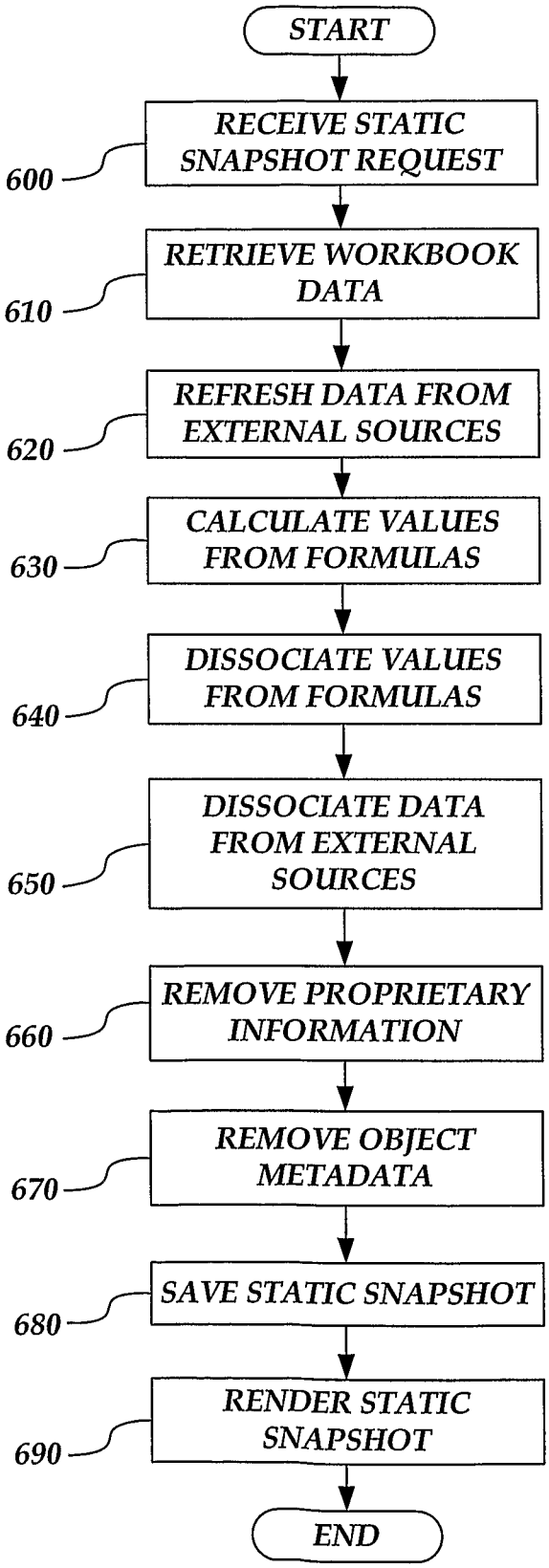

START
RECEIVE STATIC SNAPSHOT REQUEST
600
RETRIEVE WORKBOOK DATA
610
REFRESH DATA FROM EXTERNAL SOURCES
620
CALCULATE VALUES FROM FORMULAS
630
DISSOCIATE VALUES FROM FORMULAS
640
DISSOCIATE DATA FROM EXTERNAL SOURCES
650
REMOVE PROPRIETARY INFORMATION
660
REMOVE OBJECT METADATA
670
SAVE STATIC SNAPSHOT
680
RENDER STATIC SNAPSHOT
690
END

Fig. 6

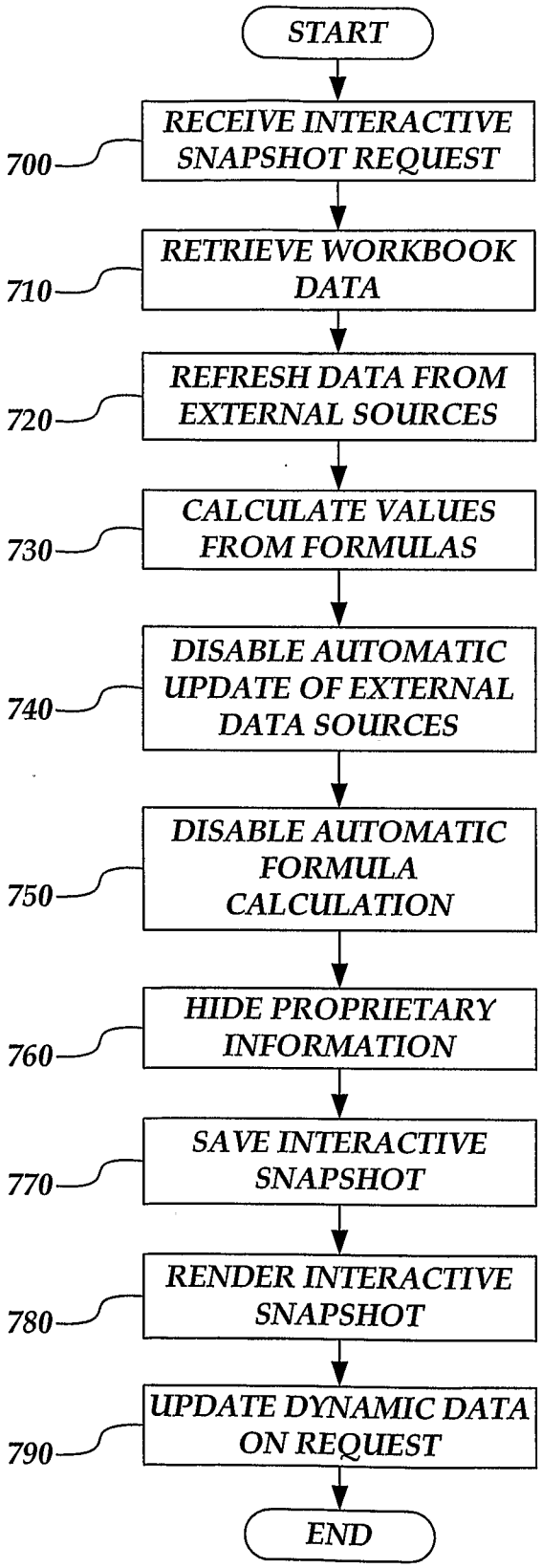

START
RECEIVE INTERACTIVE SNAPSHOT REQUEST
700
RETRIEVE WORKBOOK DATA
710
REFRESH DATA FROM EXTERNAL SOURCES
720
CALCULATE VALUES FROM FORMULAS
730
DISABLE AUTOMATIC UPDATE OF EXTERNAL DATA SOURCES
740
DISABLE AUTOMATIC FORMULA CALCULATION
750
HIDE PROPRIETARY INFORMATION
760
SAVE INTERACTIVE SNAPSHOT
770
RENDER INTERACTIVE SNAPSHOT
780
UPDATE DYNAMIC DATA ON REQUEST
790
END

Fig. 7

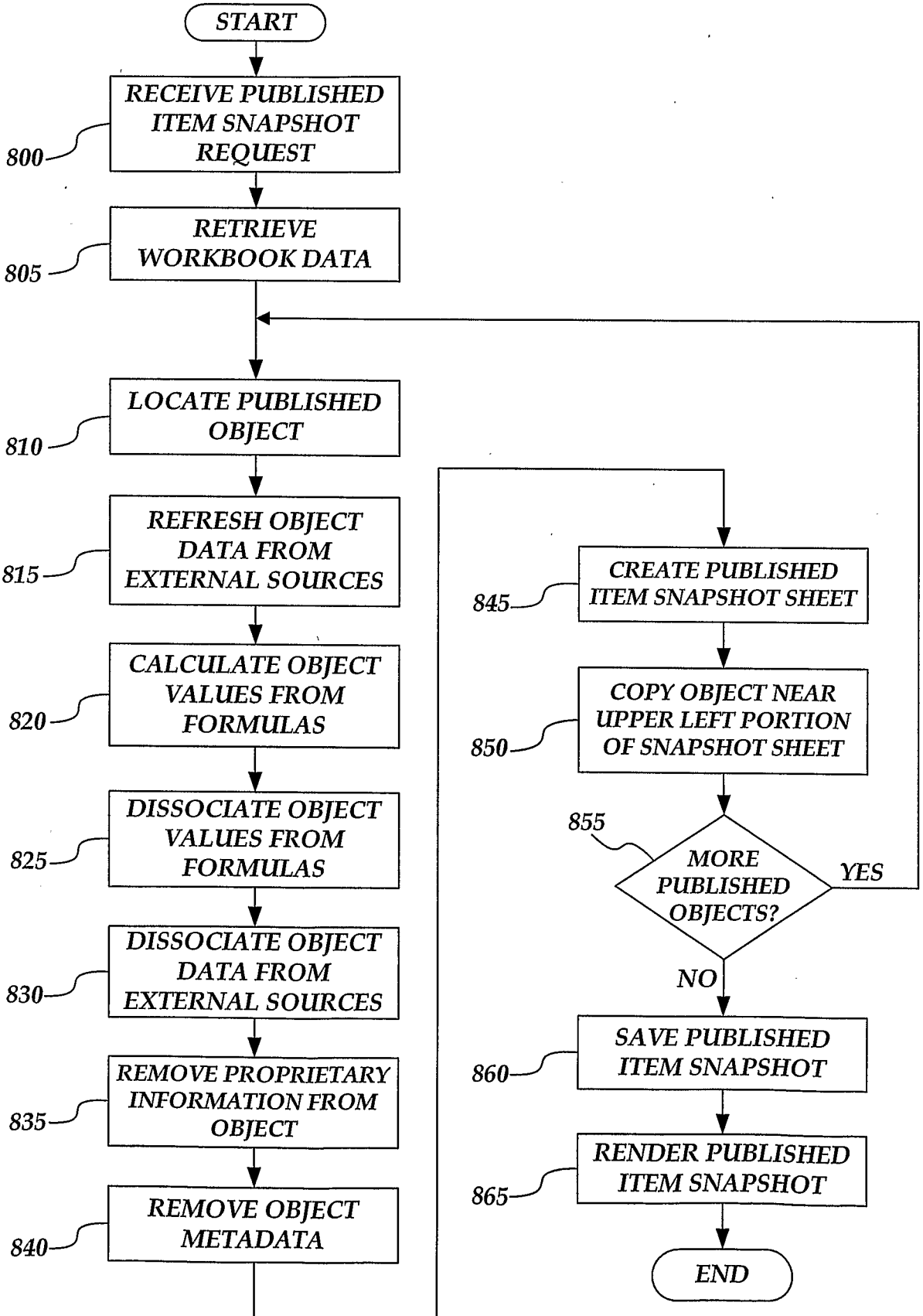

START
RECEIVE PUBLISHED ITEM SNAPSHOT REQUEST
800
RETRIEVE WORKBOOK DATA
805
LOCATE PUBLISHED OBJECT
810
REFRESH OBJECT DATA FROM EXTERNAL SOURCES
815
CALCULATE OBJECT VALUES FROM FORMULAS
820
DISSOCIATE OBJECT VALUES FROM FORMULAS
825
DISSOCIATE OBJECT DATA FROM EXTERNAL SOURCES
830
REMOVE PROPRIETARY INFORMATION FROM OBJECT
835
REMOVE OBJECT METADATA
840
CREATE PUBLISHED ITEM SNAPSHOT SHEET
845
COPY OBJECT NEAR UPPER LEFT PORTION OF SNAPSHOT SHEET
850
855
MORE PUBLISHED OBJECTS?
YES
NO
SAVE PUBLISHED ITEM SNAPSHOT
860
RENDER PUBLISHED ITEM SNAPSHOT
865
END

Fig. 8