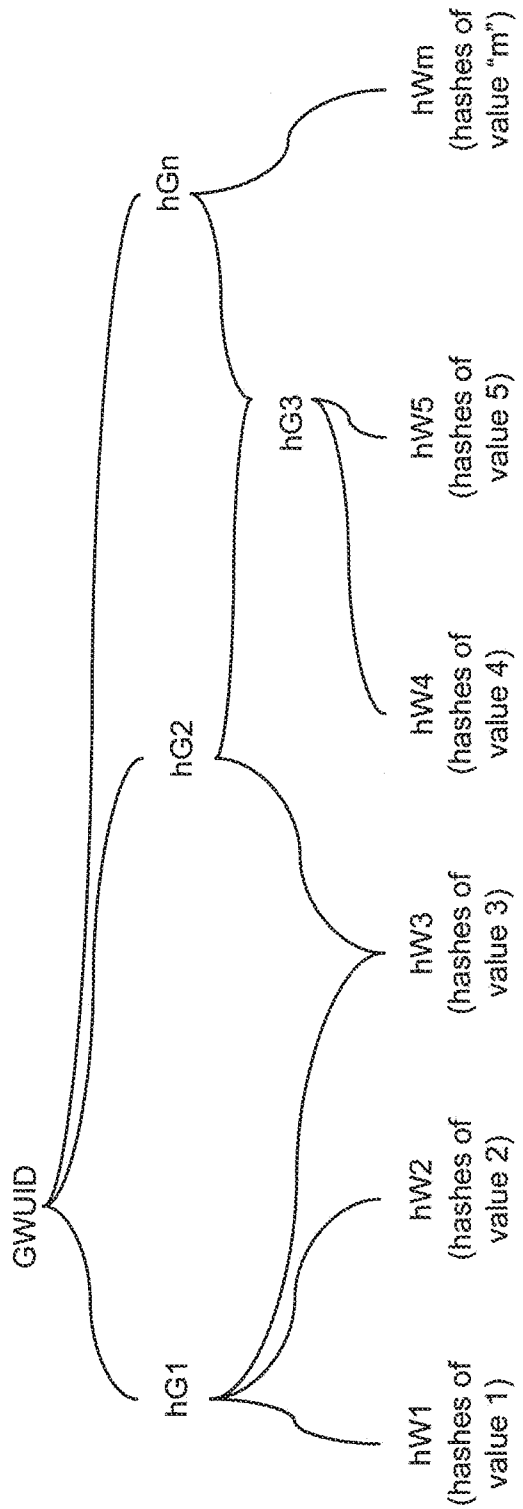
GWUID
hG1
hG2
hG3
hGn
hW1 (hashes of value 1)
hW2 (hashes of value 2)
hW3 (hashes of value 3)
hW4 (hashes of value 4)
hW5 (hashes of value 5)
hWm (hashes of value "m")

FIG. 1

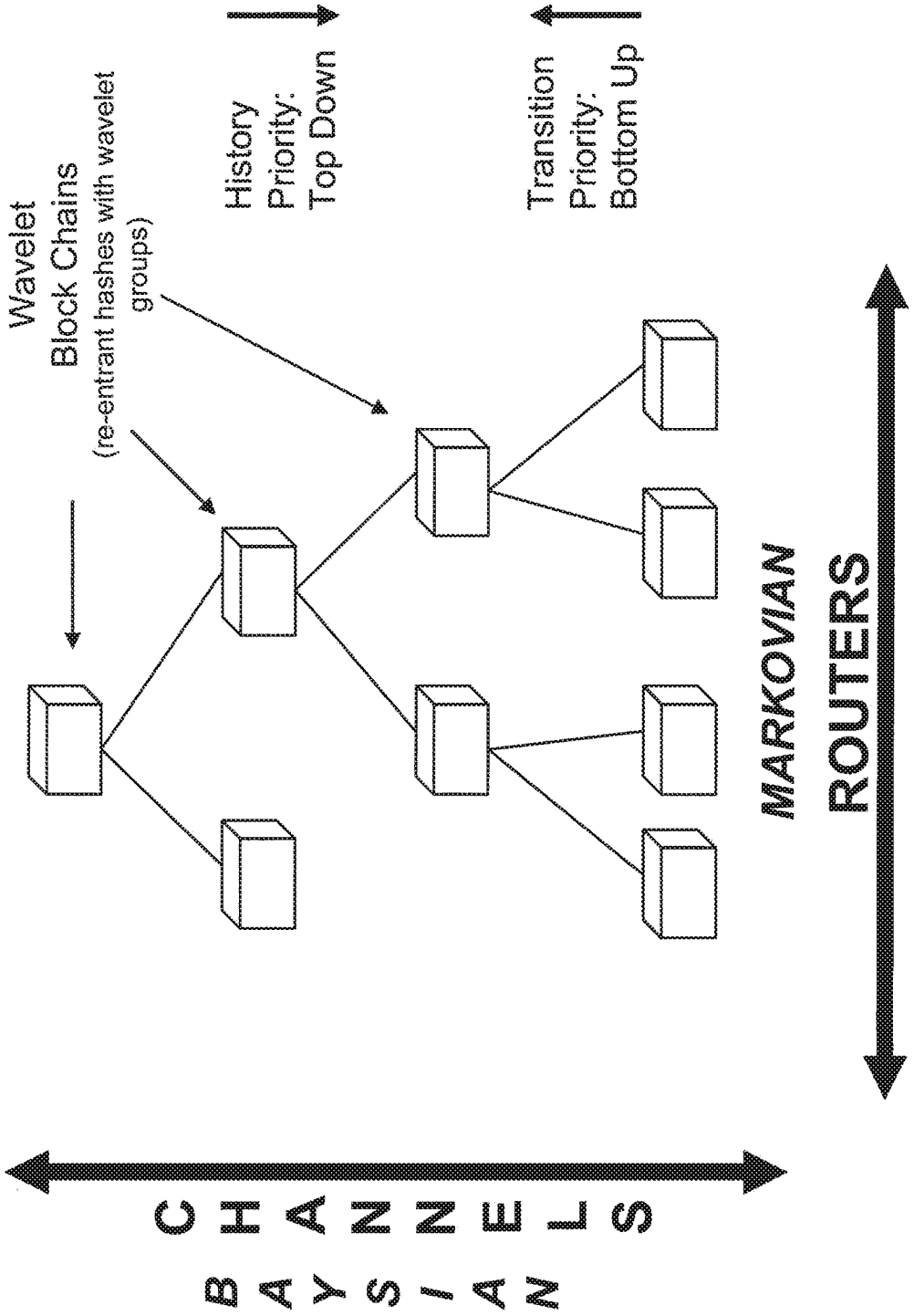
Wavelet
Block Chains
(re-entrant hashes with wavelet groups)
History
Priority:
Top Down
Transition
Priority:
Bottom Up
MARKOVIAN
ROUTERS
CHANNELS
BAYSIAN

FIG. 2

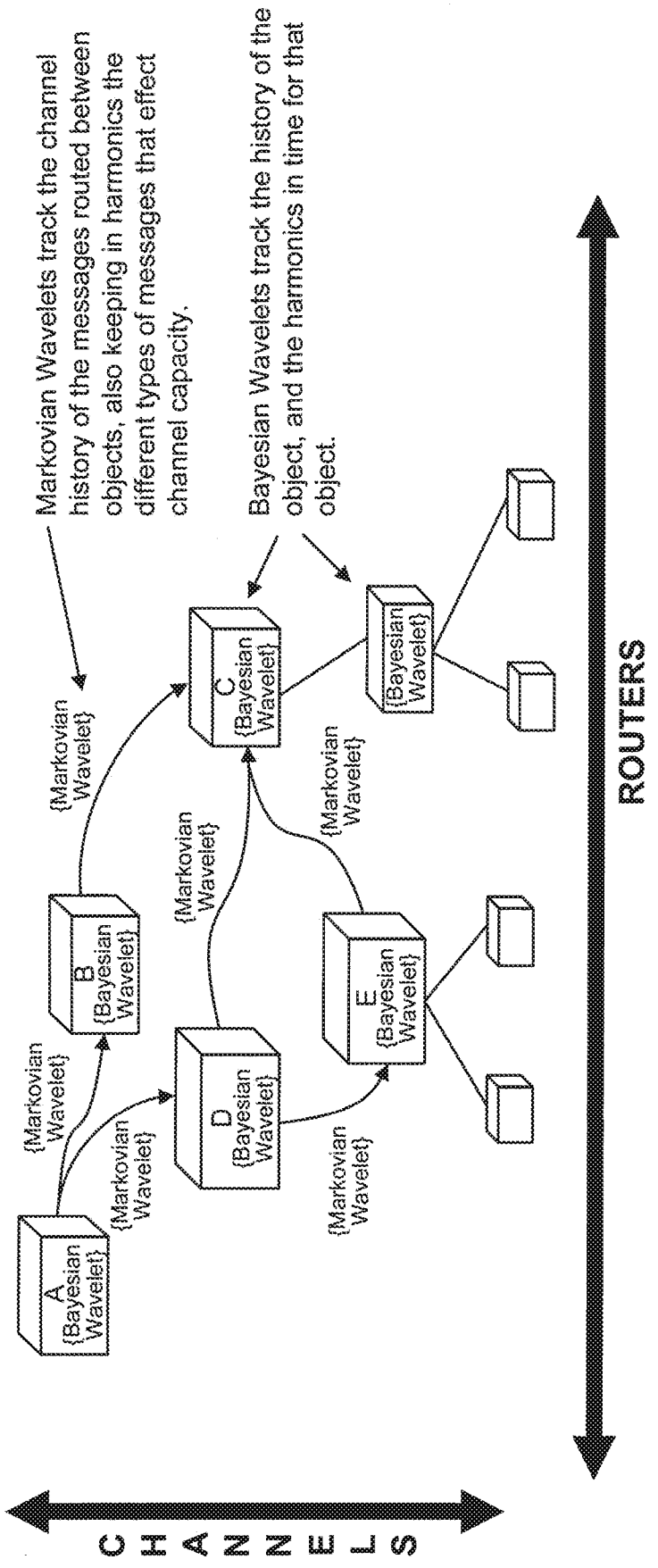
Markovian Wavelets track the channel history of the messages routed between objects, also keeping in harmonics the different types of messages that effect channel capacity.
Bayesian Wavelets track the history of the object, and the harmonics in time for that object.
A {Bayesian Wavelet}
B {Bayesian Wavelet}
C {Bayesian Wavelet}
D {Bayesian Wavelet}
E {Bayesian Wavelet}
{Bayesian Wavelet}
{Markovian Wavelet}
{Markovian Wavelet}
{Markovian Wavelet}
{Markovian Wavelet}
{Markovian Wavelet}
{Markovian Wavelet}
ROUTERS
CHANNELS

FIG. 3

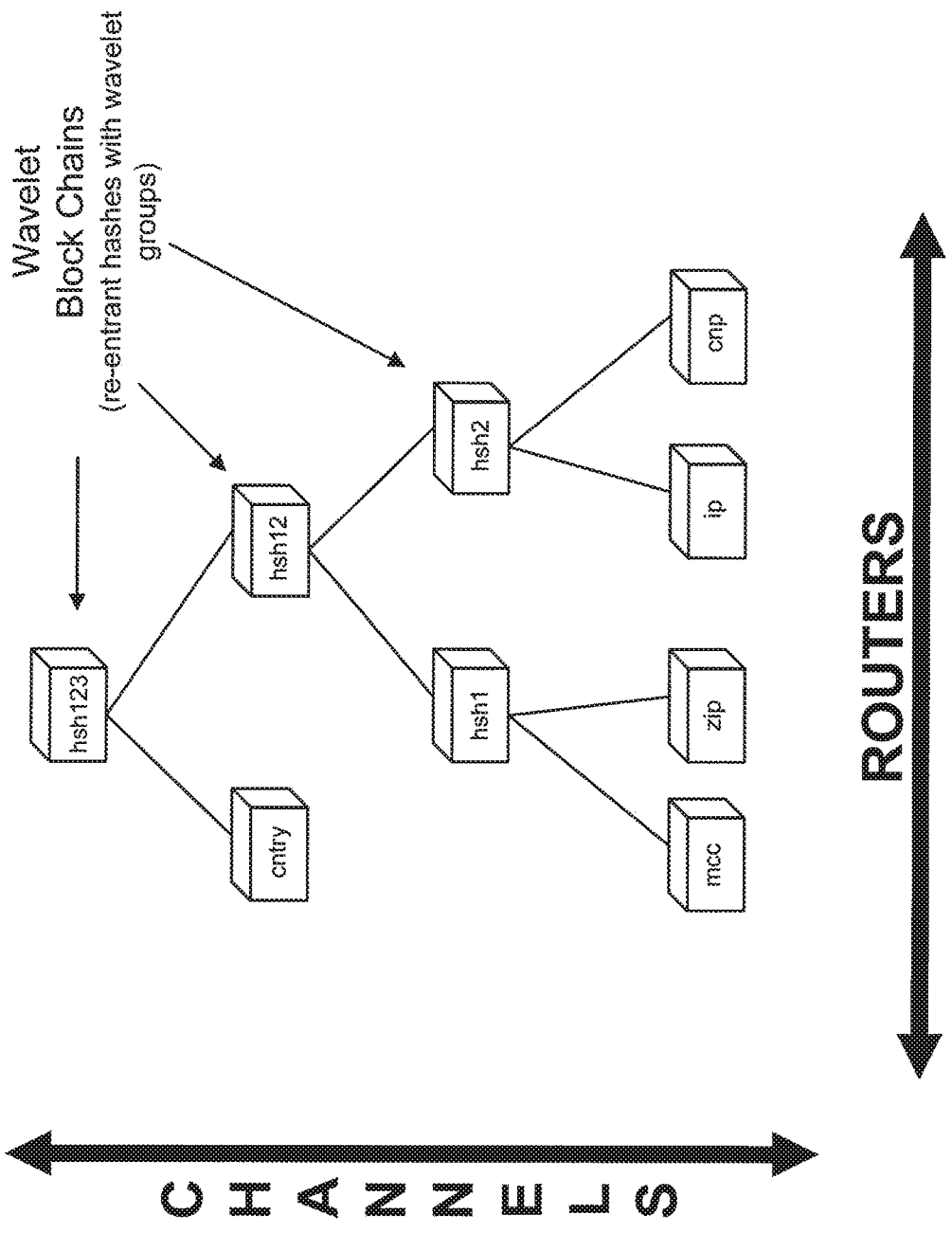
Wavelet
Block Chains
(re-entrant hashes with wavelet groups)
hsh123
hsh12
hsh2
hsh1
cntry
cnp
ip
zip
mcc
ROUTERS
CHANNELS

FIG. 4

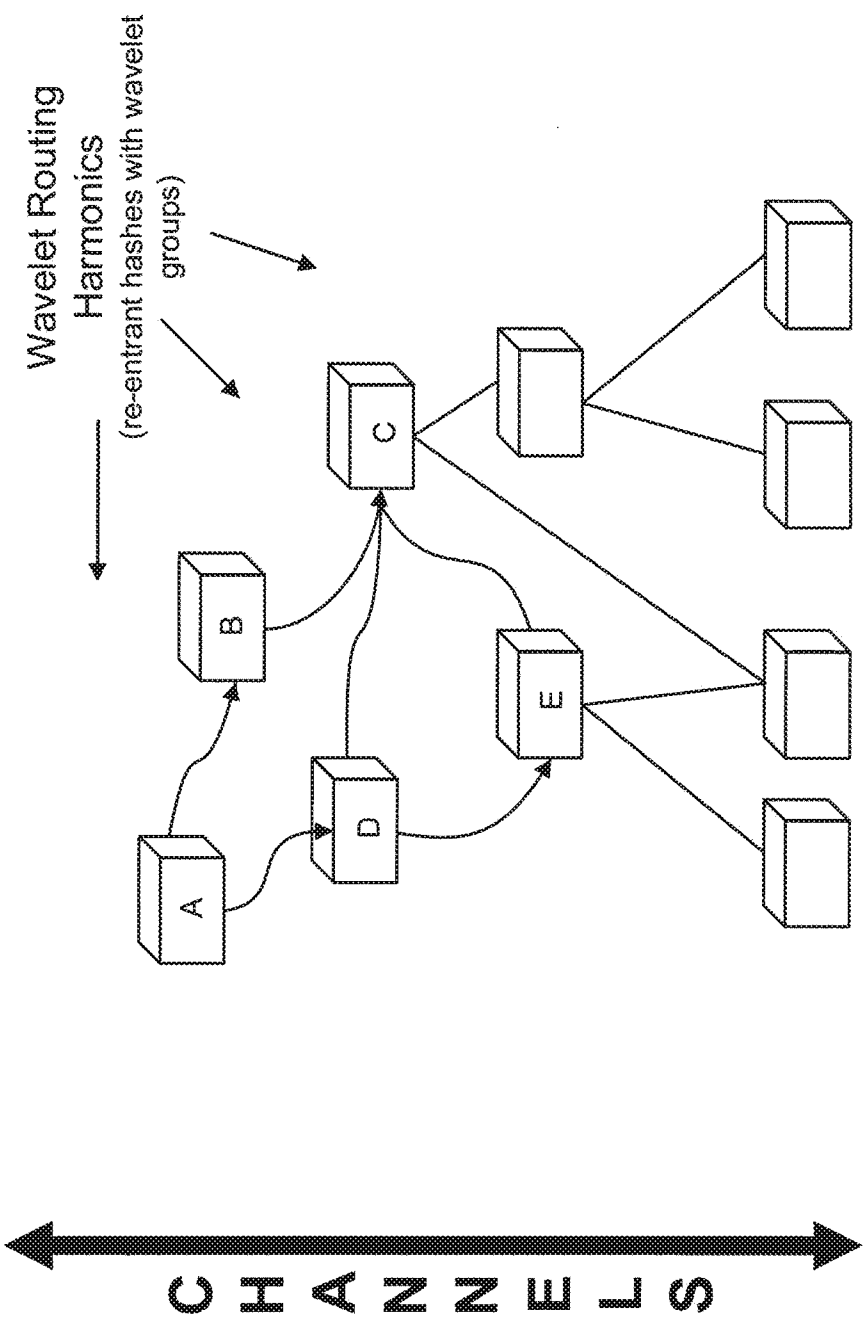
Wavelet Routing Harmonics
(re-entrant hashes with wavelet groups)
A
B
C
D
E
ROUTERS
CHANNELS

FIG. 5

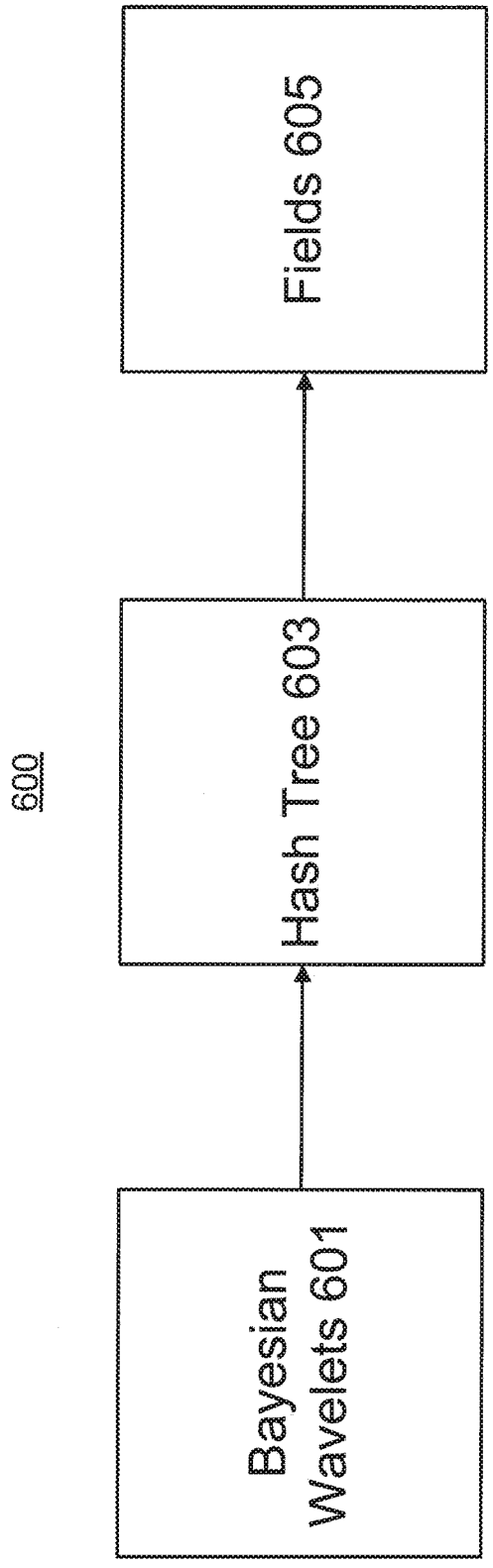

FIG. 6

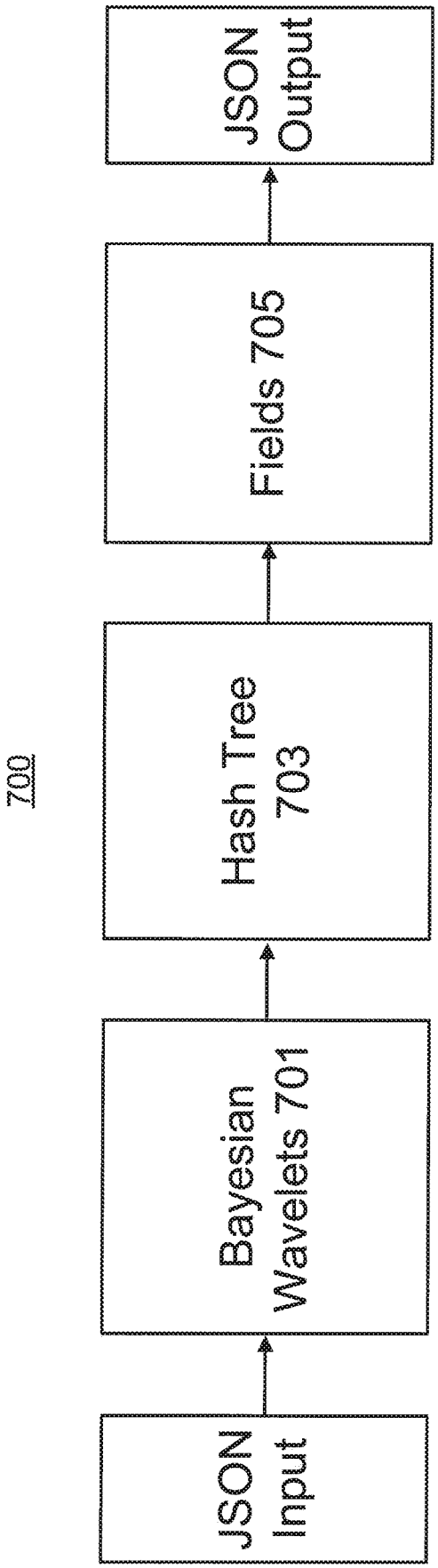
700
JSON Input
Bayesian Wavelets 701
Hash Tree 703
Fields 705
JSON Output

FIG. 7

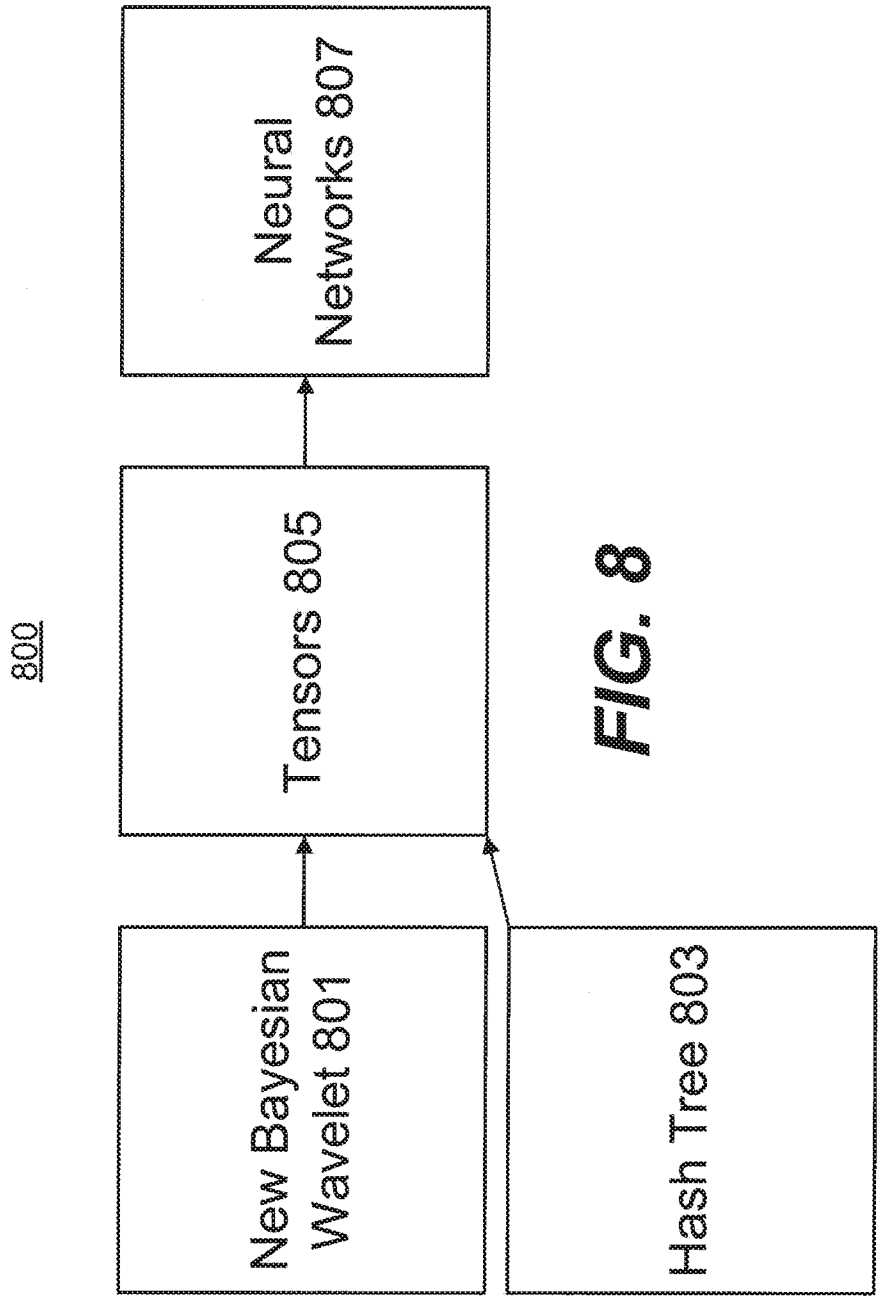
800
New Bayesian Wavelet 801
Hash Tree 803
Tensors 805
Neural Networks 807

FIG. 8

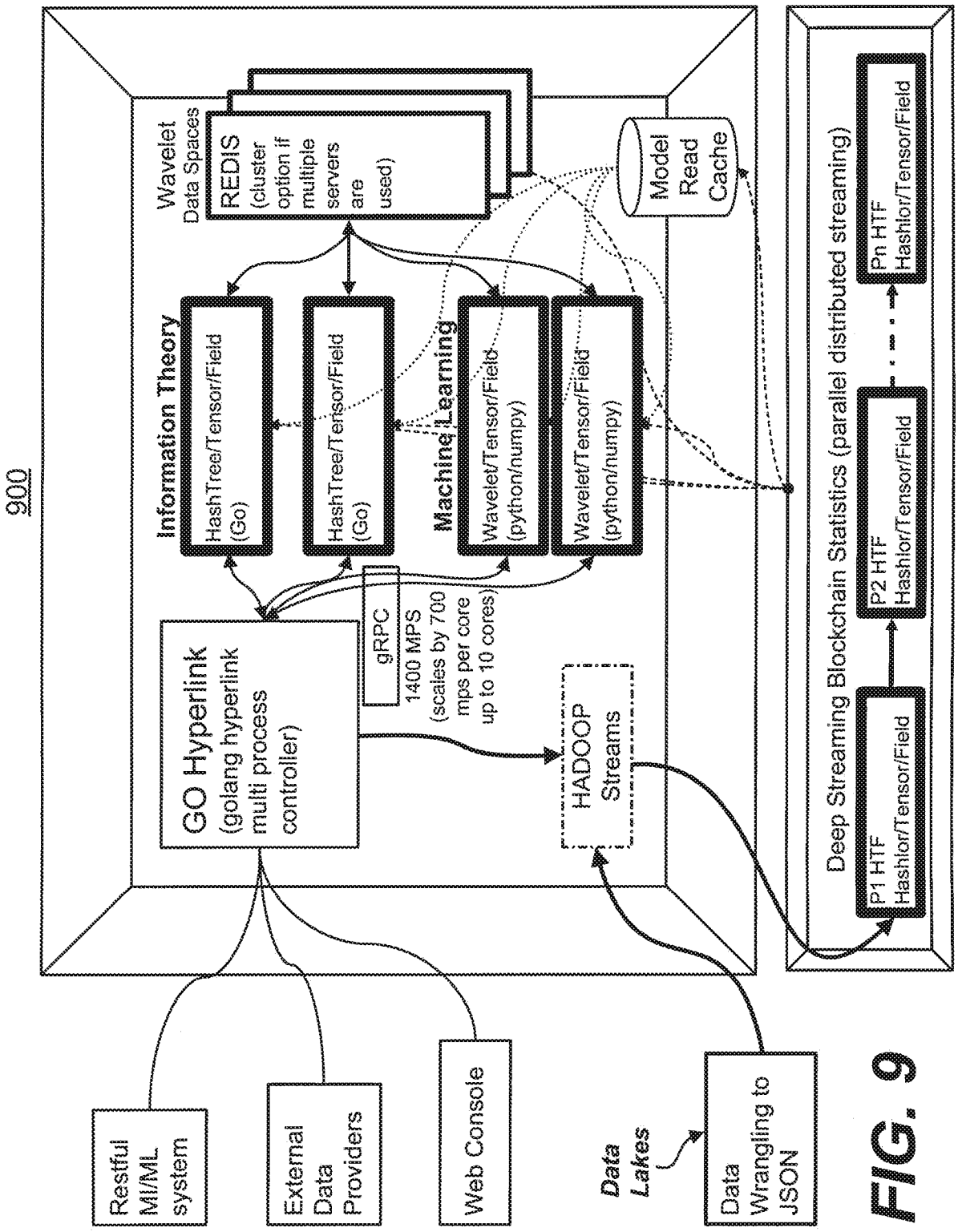
900
Wavelet Data Spaces
REDIS (cluster option if multiple servers are used)
Model Read Cache
Information Theory
HashTree/Tensor/Field (Go)
HashTree/Tensor/Field (Go)
Machine Learning
Wavelet/Tensor/Field (python/numpy)
Wavelet/Tensor/Field (python/numpy)
GO Hyperlink (golang hyperlink multi process controller)
gRPC 1400 MPS (scales by 700 mps per core up to 10 cores)
HADOOP Streams
Deep Streaming Blockchain Statistics (parallel distributed streaming)
P1 HTF Hashlor/Tensor/Field
P2 HTF Hashlor/Tensor/Field
Pn HTF Hashlor/Tensor/Field
Restful MI/ML system
External Data Providers
Web Console
Data Lakes
Data Wrangling to JSON

FIG. 9

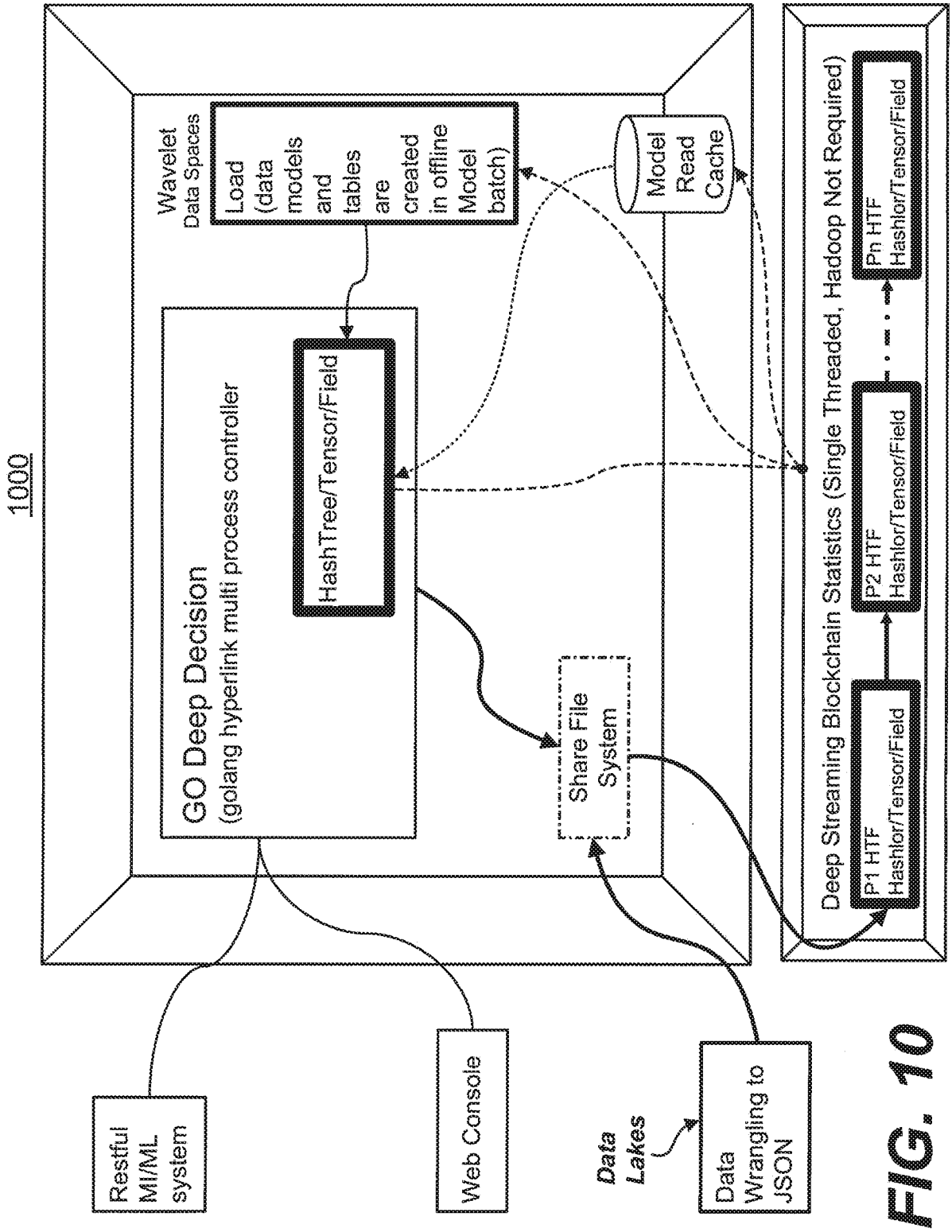
1000
Wavelet
Data Spaces
Load (data models and tables are created in offline Model batch)
Model Read Cache
GO Deep Decision
(golang hyperlink multi process controller
HashTree/Tensor/Field
Share File System
Deep Streaming Blockchain Statistics (Single Threaded, Hadoop Not Required)
P1 HTF Hashlor/Tensor/Field
P2 HTF Hashlor/Tensor/Field
Pn HTF Hashlor/Tensor/Field
Restful MI/ML system
Web Console
Data Lakes
Data Wrangling to JSON

FIG. 10

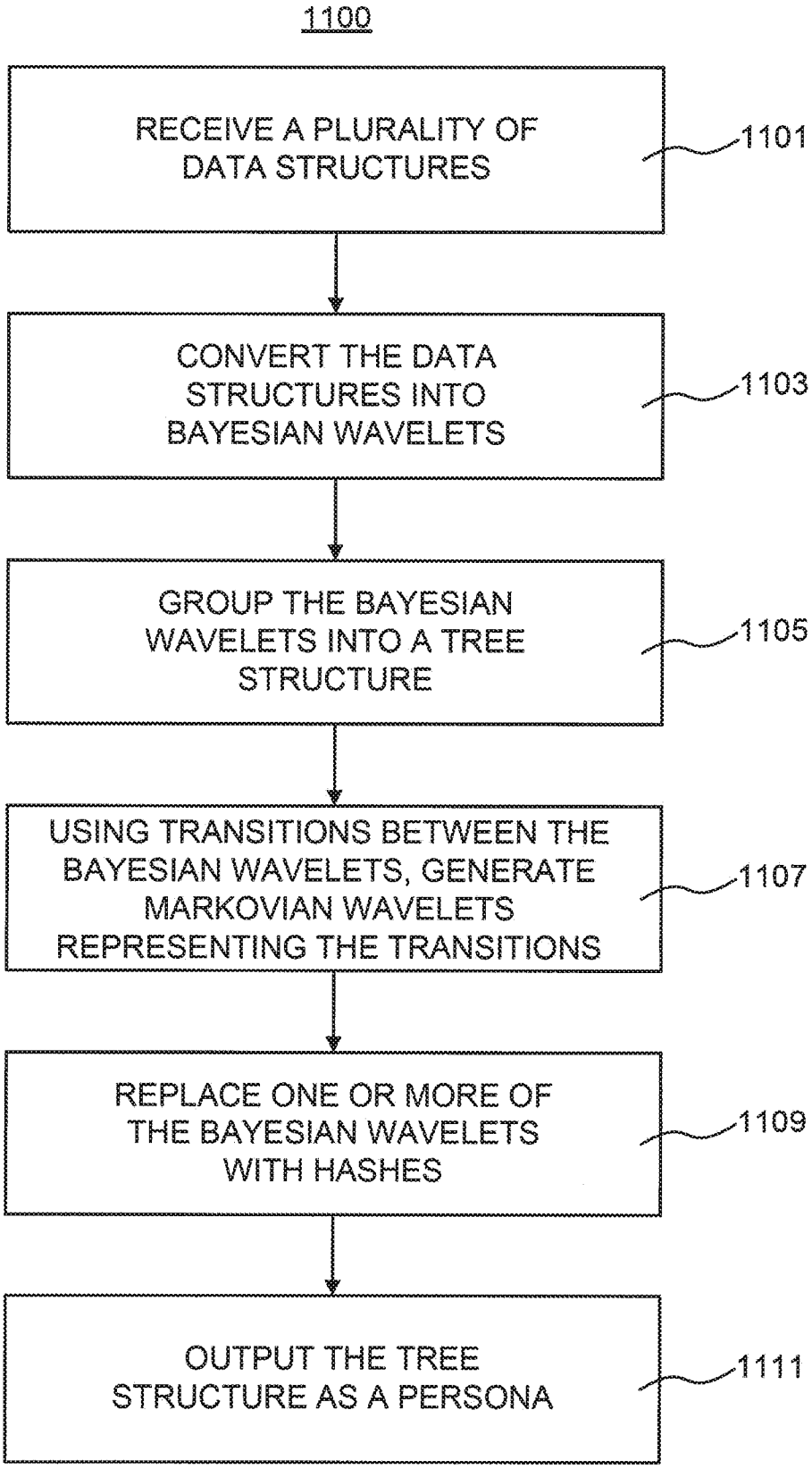
1100
RECEIVE A PLURALITY OF DATA STRUCTURES
1101
CONVERT THE DATA STRUCTURES INTO BAYESIAN WAVELETS
1103
GROUP THE BAYESIAN WAVELETS INTO A TREE STRUCTURE
1105
USING TRANSITIONS BETWEEN THE BAYESIAN WAVELETS, GENERATE MARKOVIAN WAVELETS REPRESENTING THE TRANSITIONS
1107
REPLACE ONE OR MORE OF THE BAYESIAN WAVELETS WITH HASHES
1109
OUTPUT THE TREE STRUCTURE AS A PERSONA
1111

FIG. 11

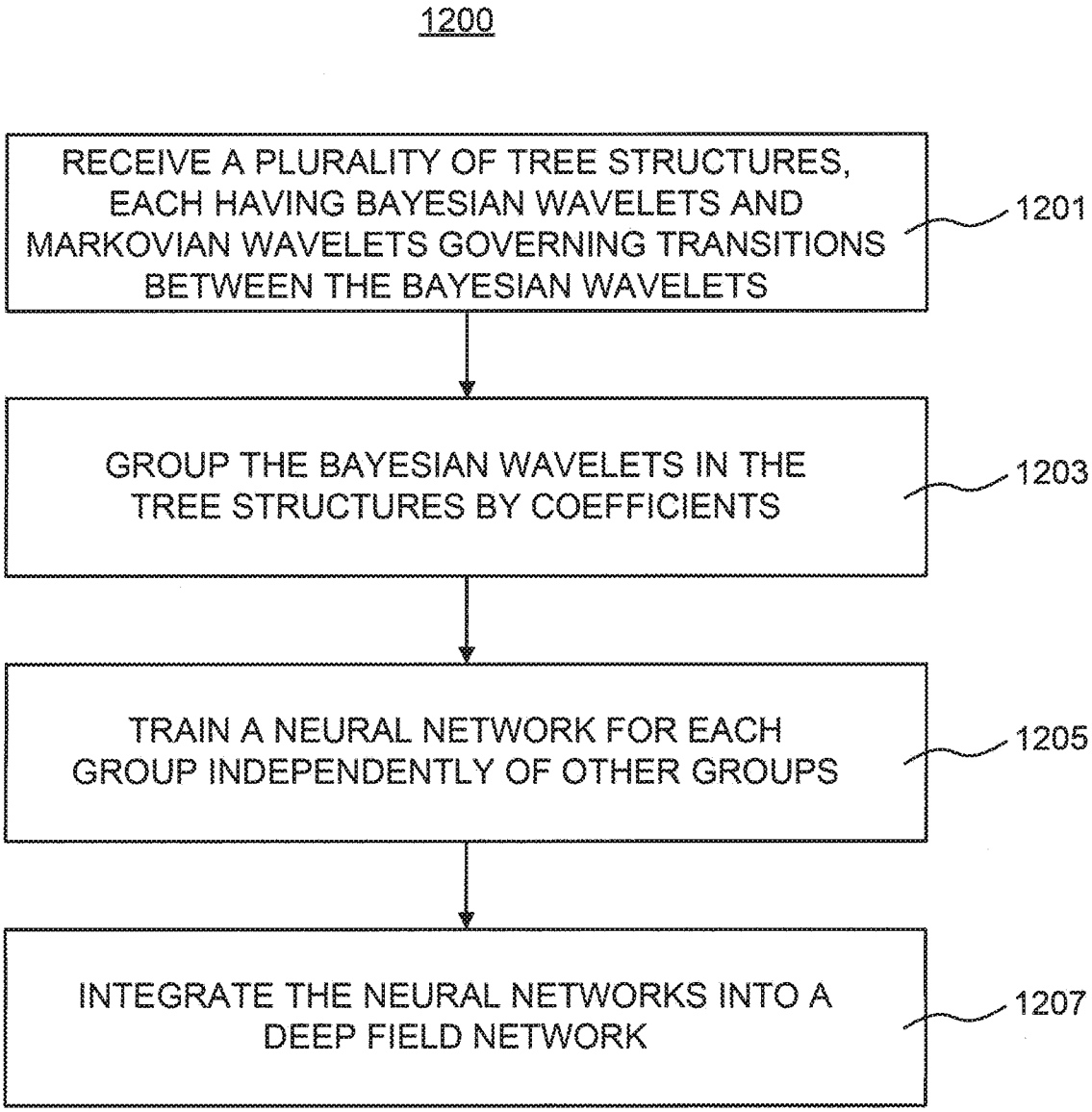
1200
RECEIVE A PLURALITY OF TREE STRUCTURES, EACH HAVING BAYESIAN WAVELETS AND MARKOVIAN WAVELETS GOVERNING TRANSITIONS BETWEEN THE BAYESIAN WAVELETS
1201
GROUP THE BAYESIAN WAVELETS IN THE TREE STRUCTURES BY COEFFICIENTS
1203
TRAIN A NEURAL NETWORK FOR EACH GROUP INDEPENDENTLY OF OTHER GROUPS
1205
INTEGRATE THE NEURAL NETWORKS INTO A DEEP FIELD NETWORK
1207

FIG. 12

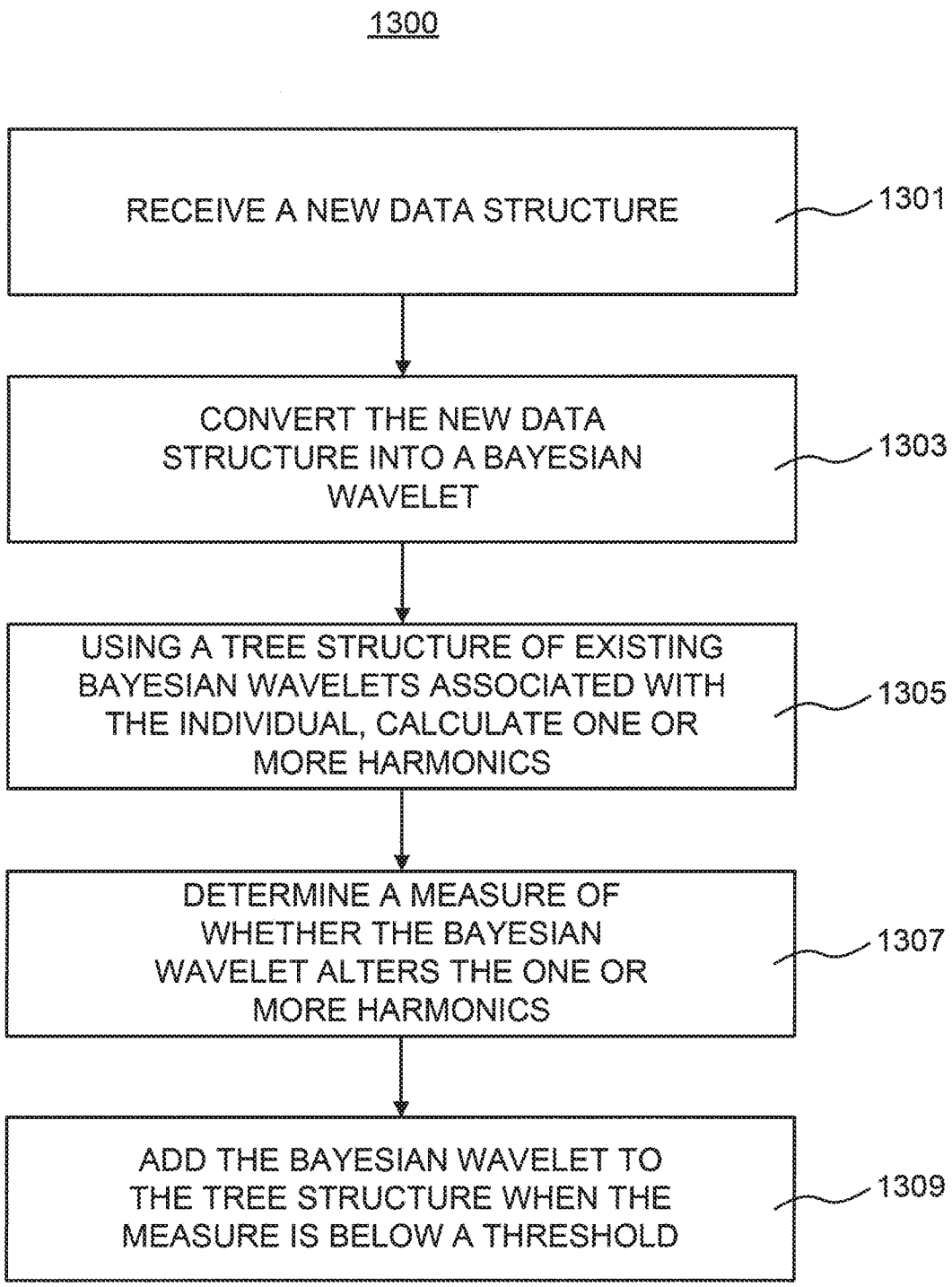
1300
RECEIVE A NEW DATA STRUCTURE
1301
CONVERT THE NEW DATA STRUCTURE INTO A BAYESIAN WAVELET
1303
USING A TREE STRUCTURE OF EXISTING BAYESIAN WAVELETS ASSOCIATED WITH THE INDIVIDUAL, CALCULATE ONE OR MORE HARMONICS
1305
DETERMINE A MEASURE OF WHETHER THE BAYESIAN WAVELET ALTERS THE ONE OR MORE HARMONICS
1307
ADD THE BAYESIAN WAVELET TO THE TREE STRUCTURE WHEN THE MEASURE IS BELOW A THRESHOLD
1309

FIG. 13

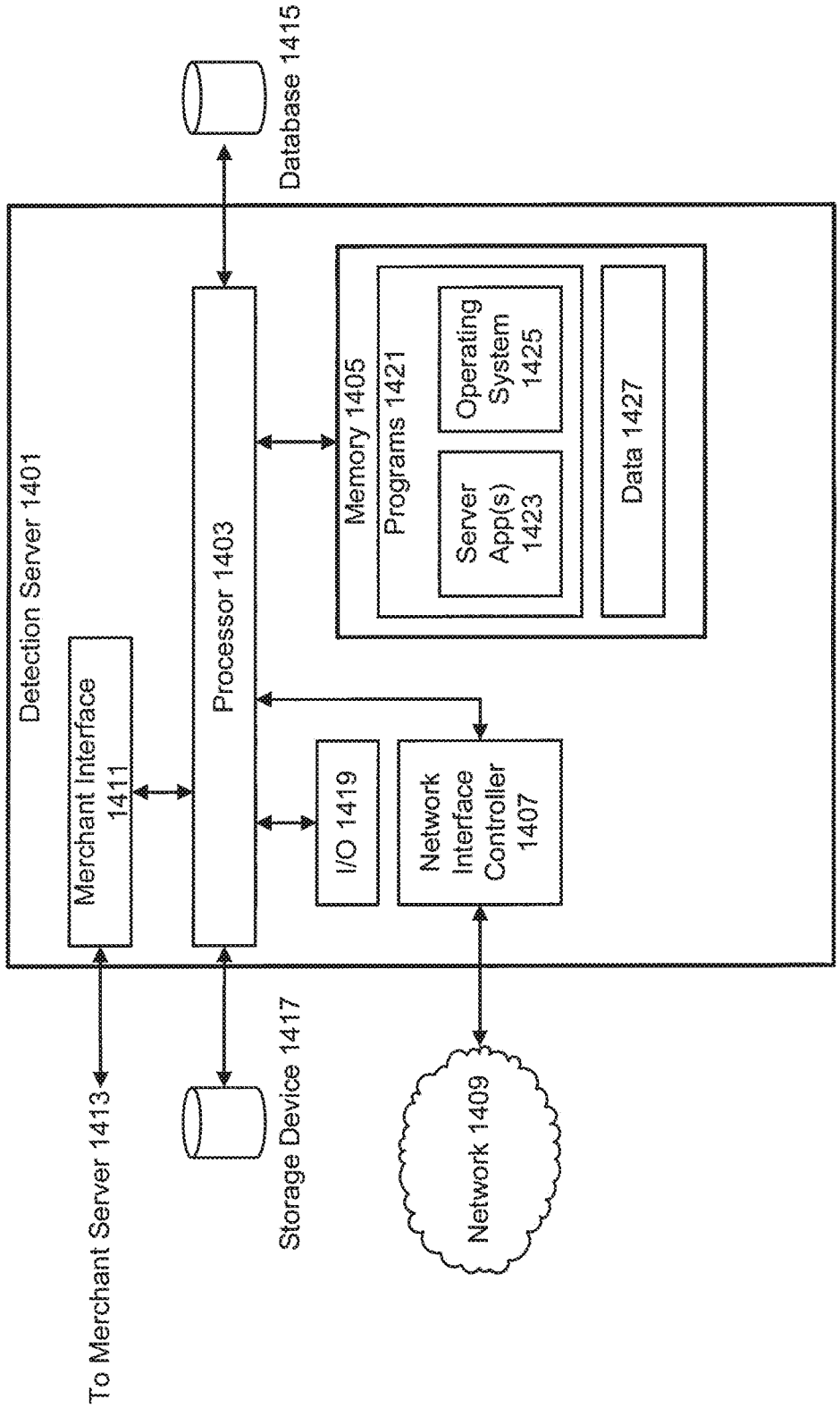
Database 1415
Detection Server 1401
Memory 1405
Programs 1421
Operating System 1425
Server App(s) 1423
Data 1427
Processor 1403
Merchant Interface 1411
I/O 1419
Network Interface Controller 1407
To Merchant Server 1413
Storage Device 1417
Network 1409

FIG. 14