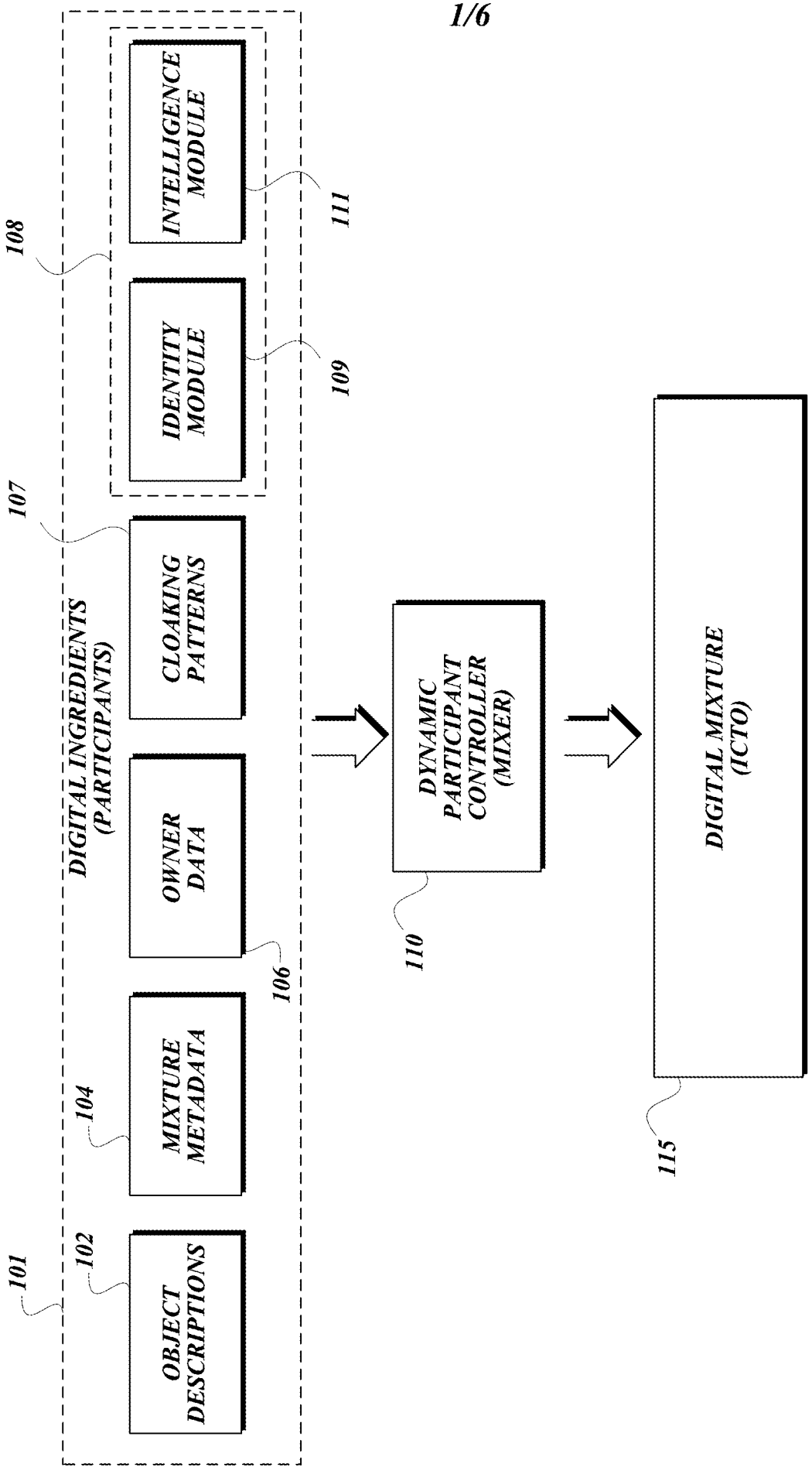
DIGITAL INGREDIENTS (PARTICIPANTS)
OBJECT DESCRIPTIONS
MIXTURE METADATA
OWNER DATA
CLOAKING PATTERNS
IDENTITY MODULE
INTELLIGENCE MODULE
DYNAMIC PARTICIPANT CONTROLLER (MIXER)
DIGITAL MIXTURE (ICTO)
101
102
104
106
107
108
109
110
111
115

Fig. 1.

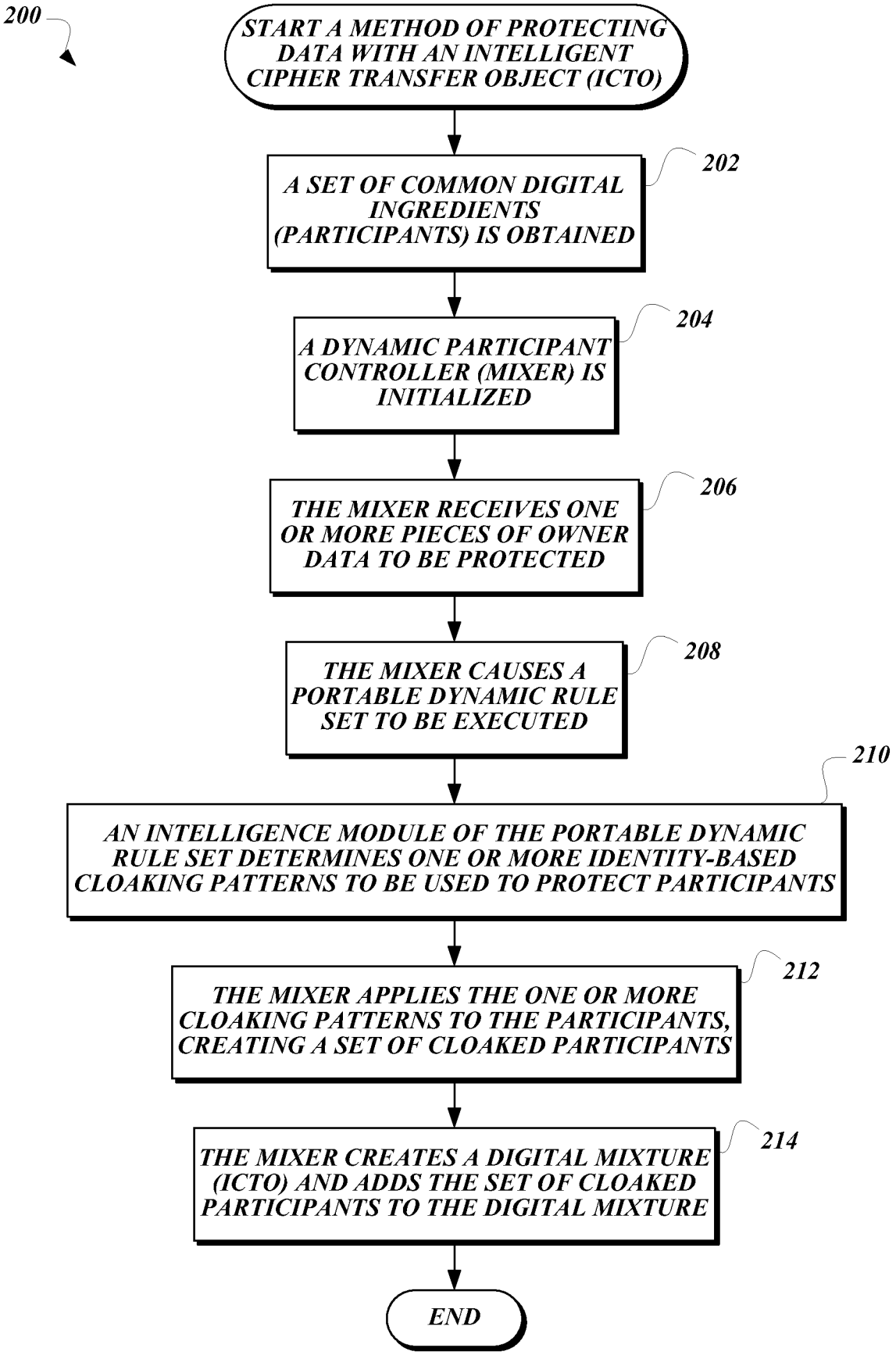
200
START A METHOD OF PROTECTING DATA WITH AN INTELLIGENT CIPHER TRANSFER OBJECT (ICTO)
A SET OF COMMON DIGITAL INGREDIENTS (PARTICIPANTS) IS OBTAINED
202
A DYNAMIC PARTICIPANT CONTROLLER (MIXER) IS INITIALIZED
204
THE MIXER RECEIVES ONE OR MORE PIECES OF OWNER DATA TO BE PROTECTED
206
THE MIXER CAUSES A PORTABLE DYNAMIC RULE SET TO BE EXECUTED
208
AN INTELLIGENCE MODULE OF THE PORTABLE DYNAMIC RULE SET DETERMINES ONE OR MORE IDENTITY-BASED CLOAKING PATTERNS TO BE USED TO PROTECT PARTICIPANTS
210
THE MIXER APPLIES THE ONE OR MORE CLOAKING PATTERNS TO THE PARTICIPANTS, CREATING A SET OF CLOAKED PARTICIPANTS
212
THE MIXER CREATES A DIGITAL MIXTURE (ICTO) AND ADDS THE SET OF CLOAKED PARTICIPANTS TO THE DIGITAL MIXTURE
214
END

Fig.2.

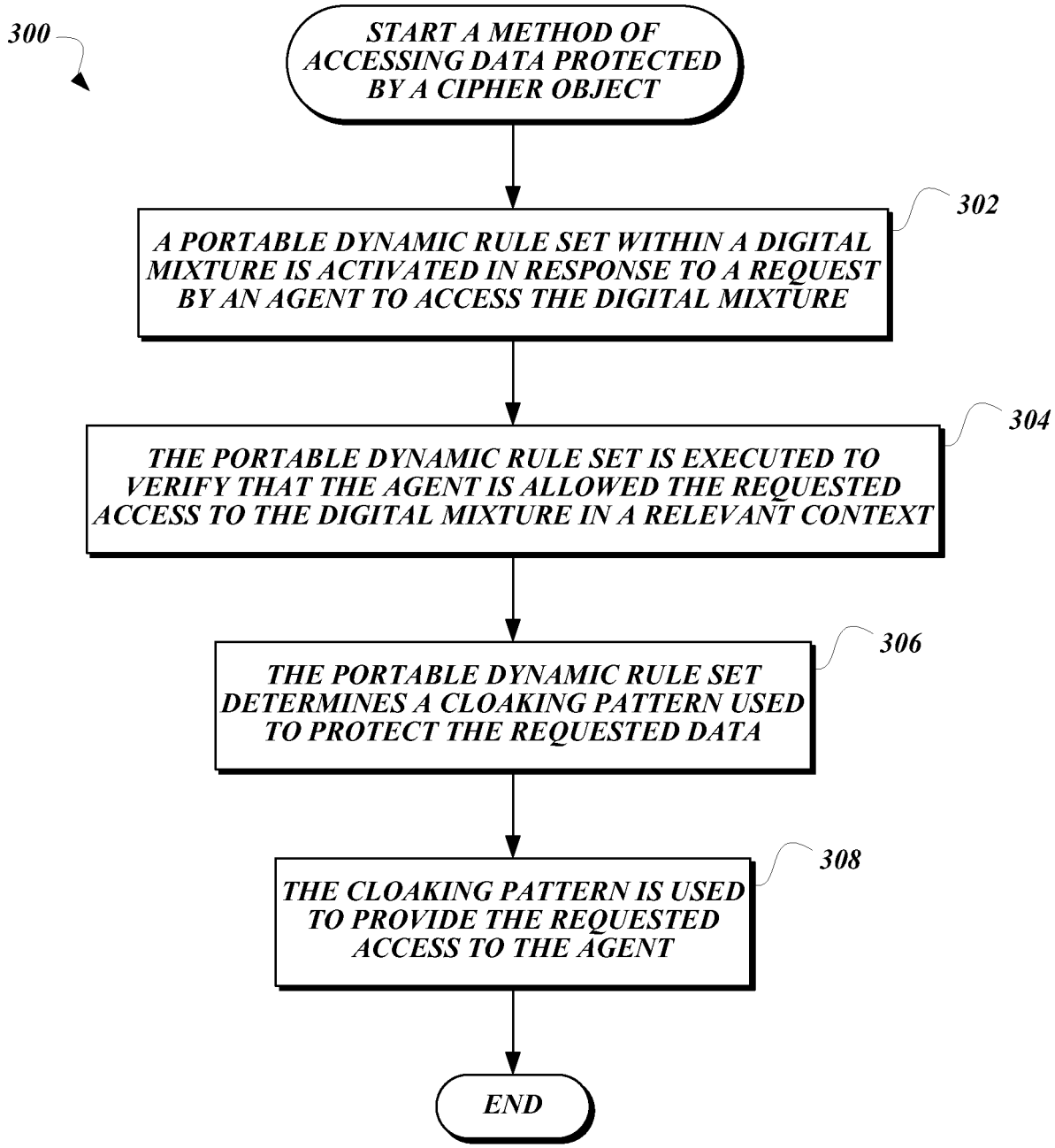
300
START A METHOD OF ACCESSING DATA PROTECTED BY A CIPHER OBJECT
302
A PORTABLE DYNAMIC RULE SET WITHIN A DIGITAL MIXTURE IS ACTIVATED IN RESPONSE TO A REQUEST BY AN AGENT TO ACCESS THE DIGITAL MIXTURE
304
THE PORTABLE DYNAMIC RULE SET IS EXECUTED TO VERIFY THAT THE AGENT IS ALLOWED THE REQUESTED ACCESS TO THE DIGITAL MIXTURE IN A RELEVANT CONTEXT
306
THE PORTABLE DYNAMIC RULE SET DETERMINES A CLOAKING PATTERN USED TO PROTECT THE REQUESTED DATA
308
THE CLOAKING PATTERN IS USED TO PROVIDE THE REQUESTED ACCESS TO THE AGENT
END

Fig.3.

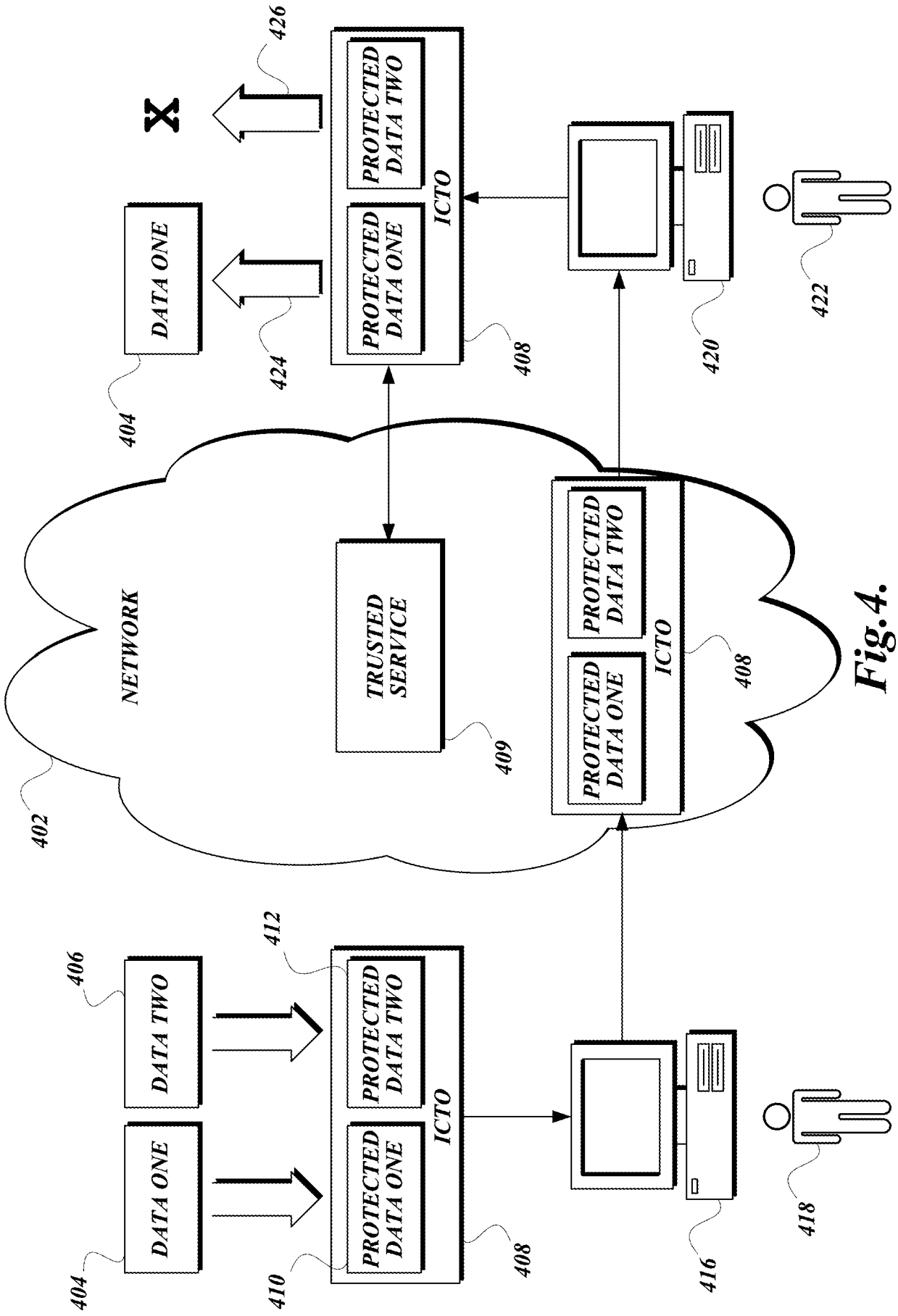
DATA ONE
404
DATA TWO
406
PROTECTED DATA ONE
PROTECTED DATA TWO
ICTO
408
410
412
NETWORK
402
TRUSTED SERVICE
409
416
418
420
422
424
426
X

Fig.4.

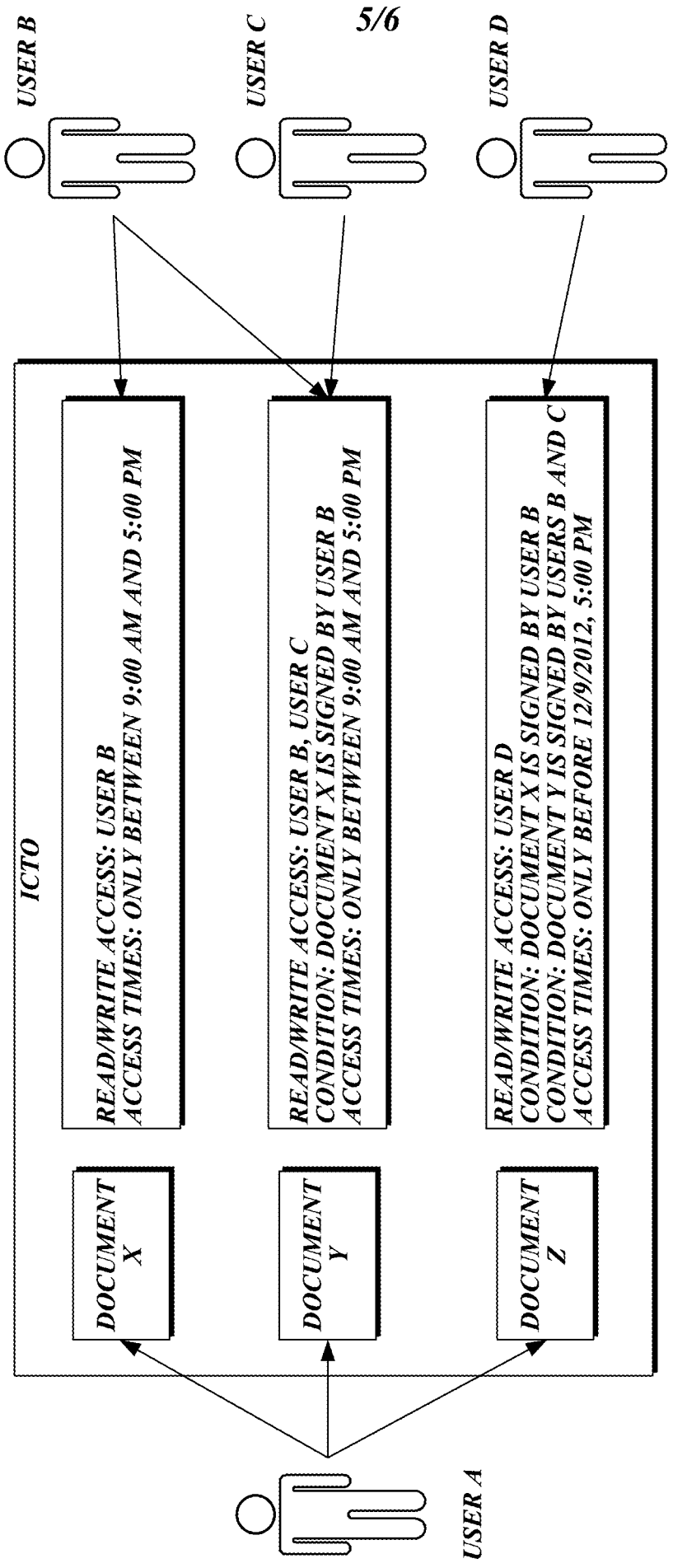
USER B
USER C
USER D
ICTO
READ/WRITE ACCESS: USER B
ACCESS TIMES: ONLY BETWEEN 9:00 AM AND 5:00 PM
READ/WRITE ACCESS: USER B, USER C
CONDITION: DOCUMENT X IS SIGNED BY USER B
ACCESS TIMES: ONLY BETWEEN 9:00 AM AND 5:00 PM
READ/WRITE ACCESS: USER D
CONDITION: DOCUMENT X IS SIGNED BY USER B
CONDITION: DOCUMENT Y IS SIGNED BY USERS B AND C
ACCESS TIMES: ONLY BEFORE 12/9/2012, 5:00 PM
DOCUMENT X
DOCUMENT Y
DOCUMENT Z
USER A

Fig. 5.

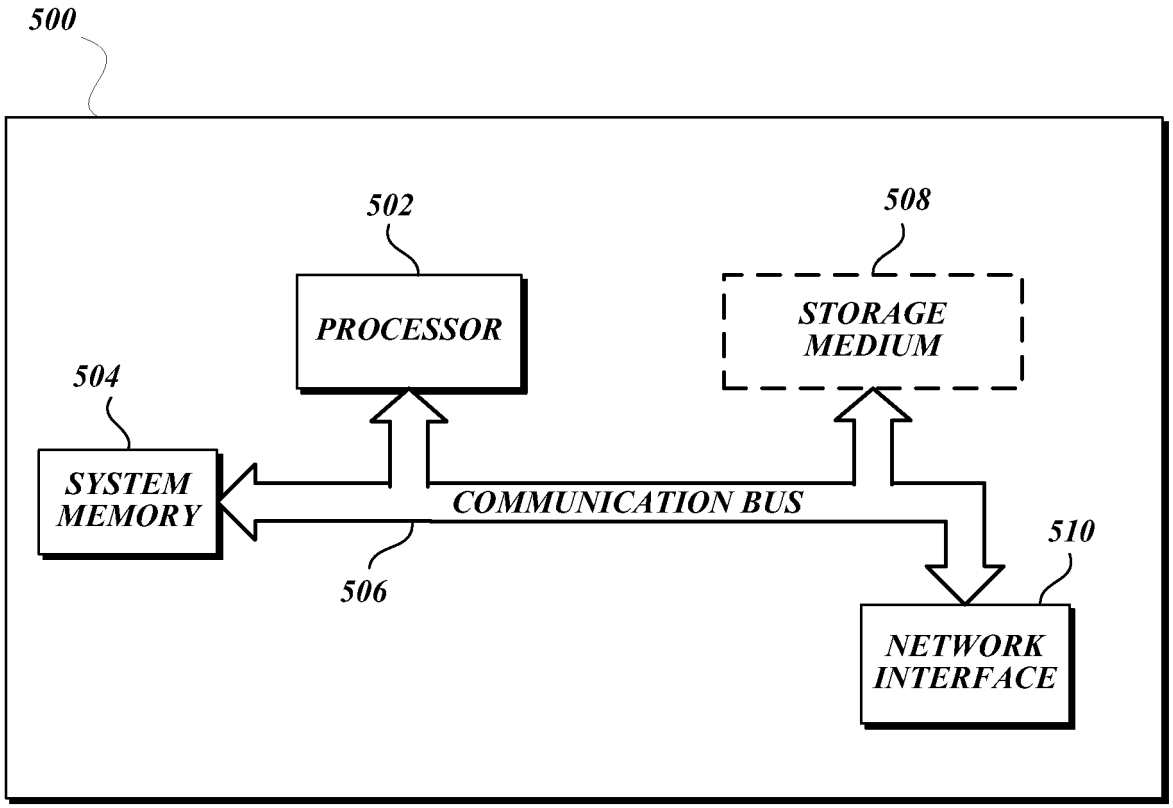
500
502
PROCESSOR
508
STORAGE MEDIUM
504
SYSTEM MEMORY
COMMUNICATION BUS
506
510
NETWORK INTERFACE

Fig.6.