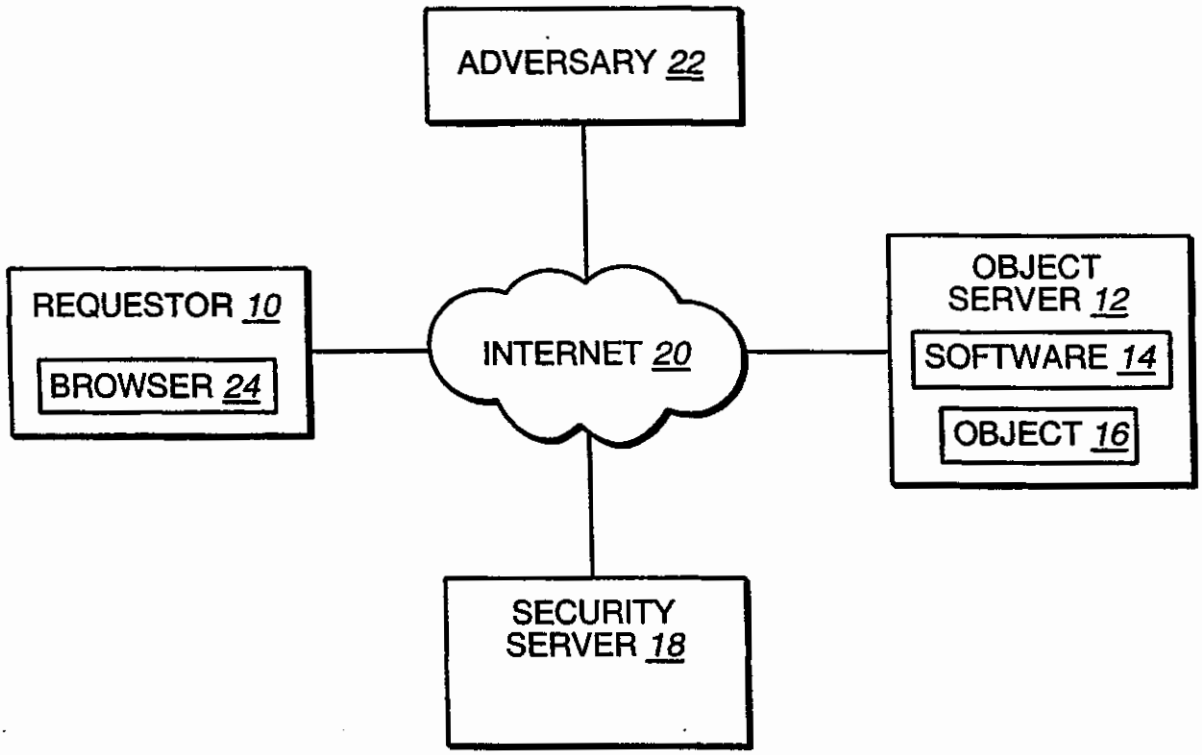

ADVERSARY 22
REQUESTOR 10
BROWSER 24
INTERNET 20
OBJECT SERVER 12
SOFTWARE 14
OBJECT 16
SECURITY SERVER 18

FIG._1

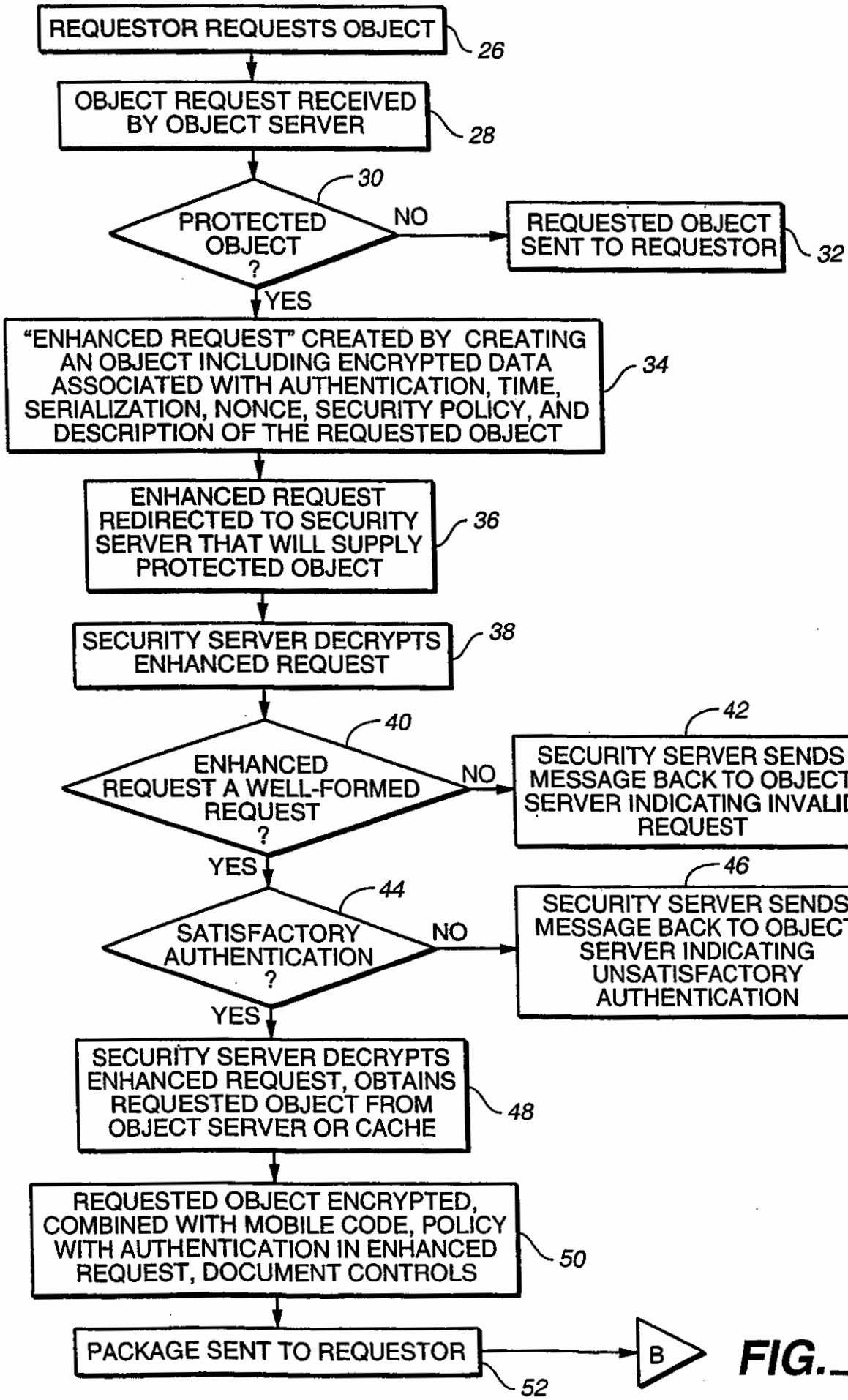

REQUESTOR REQUESTS OBJECT
26
OBJECT REQUEST RECEIVED BY OBJECT SERVER
28
30
PROTECTED OBJECT ?
NO
REQUESTED OBJECT SENT TO REQUESTOR
32
YES
"ENHANCED REQUEST" CREATED BY CREATING AN OBJECT INCLUDING ENCRYPTED DATA ASSOCIATED WITH AUTHENTICATION, TIME, SERIALIZATION, NONCE, SECURITY POLICY, AND DESCRIPTION OF THE REQUESTED OBJECT
34
ENHANCED REQUEST REDIRECTED TO SECURITY SERVER THAT WILL SUPPLY PROTECTED OBJECT
36
SECURITY SERVER DECRYPTS ENHANCED REQUEST
38
40
ENHANCED REQUEST A WELL-FORMED REQUEST ?
NO
42
SECURITY SERVER SENDS MESSAGE BACK TO OBJECT SERVER INDICATING INVALID REQUEST
YES
44
SATISFACTORY AUTHENTICATION ?
NO
46
SECURITY SERVER SENDS MESSAGE BACK TO OBJECT SERVER INDICATING UNSATISFACTORY AUTHENTICATION
YES
SECURITY SERVER DECRYPTS ENHANCED REQUEST, OBTAINS REQUESTED OBJECT FROM OBJECT SERVER OR CACHE
48
REQUESTED OBJECT ENCRYPTED, COMBINED WITH MOBILE CODE, POLICY WITH AUTHENTICATION IN ENHANCED REQUEST, DOCUMENT CONTROLS
50
PACKAGE SENT TO REQUESTOR
52
B

FIG._2a

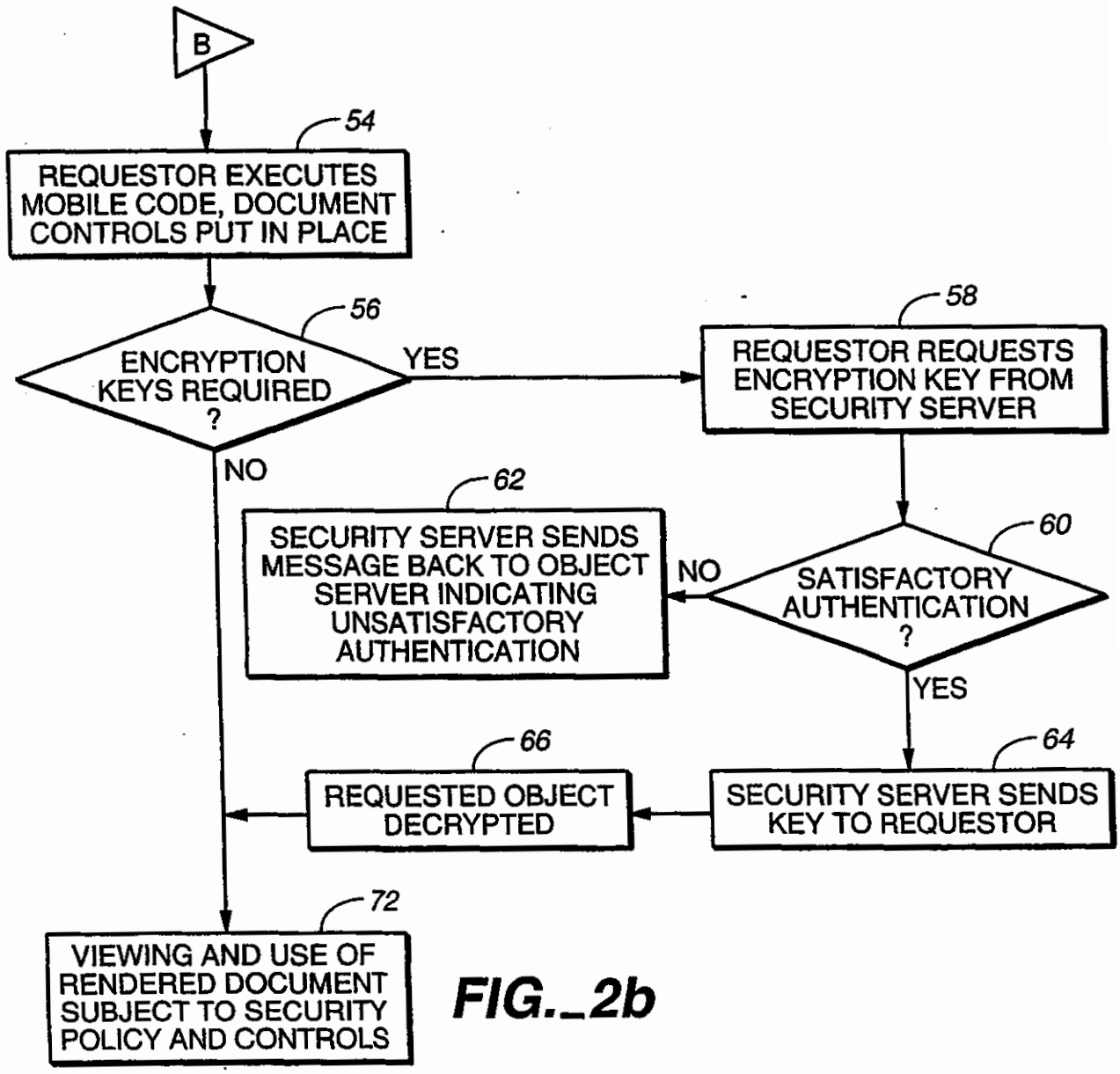

B
54
REQUESTOR EXECUTES MOBILE CODE, DOCUMENT CONTROLS PUT IN PLACE
56
ENCRYPTION KEYS REQUIRED ?
YES
NO
58
REQUESTOR REQUESTS ENCRYPTION KEY FROM SECURITY SERVER
60
SATISFACTORY AUTHENTICATION ?
NO
62
SECURITY SERVER SENDS MESSAGE BACK TO OBJECT SERVER INDICATING UNSATISFACTORY AUTHENTICATION
YES
64
SECURITY SERVER SENDS KEY TO REQUESTOR
66
REQUESTED OBJECT DECRYPTED
72
VIEWING AND USE OF RENDERED DOCUMENT SUBJECT TO SECURITY POLICY AND CONTROLS

FIG._2b