

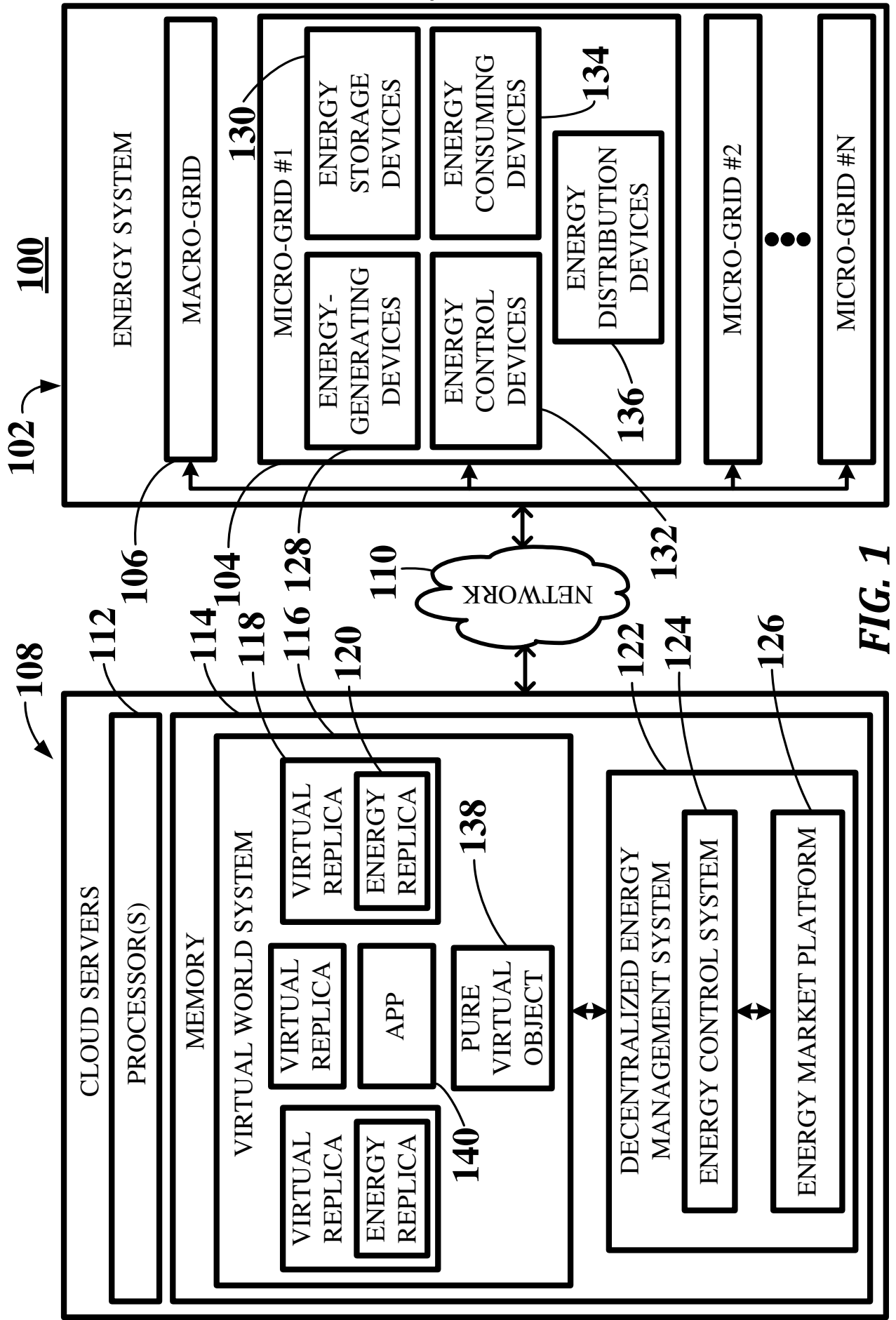


FIG. 1

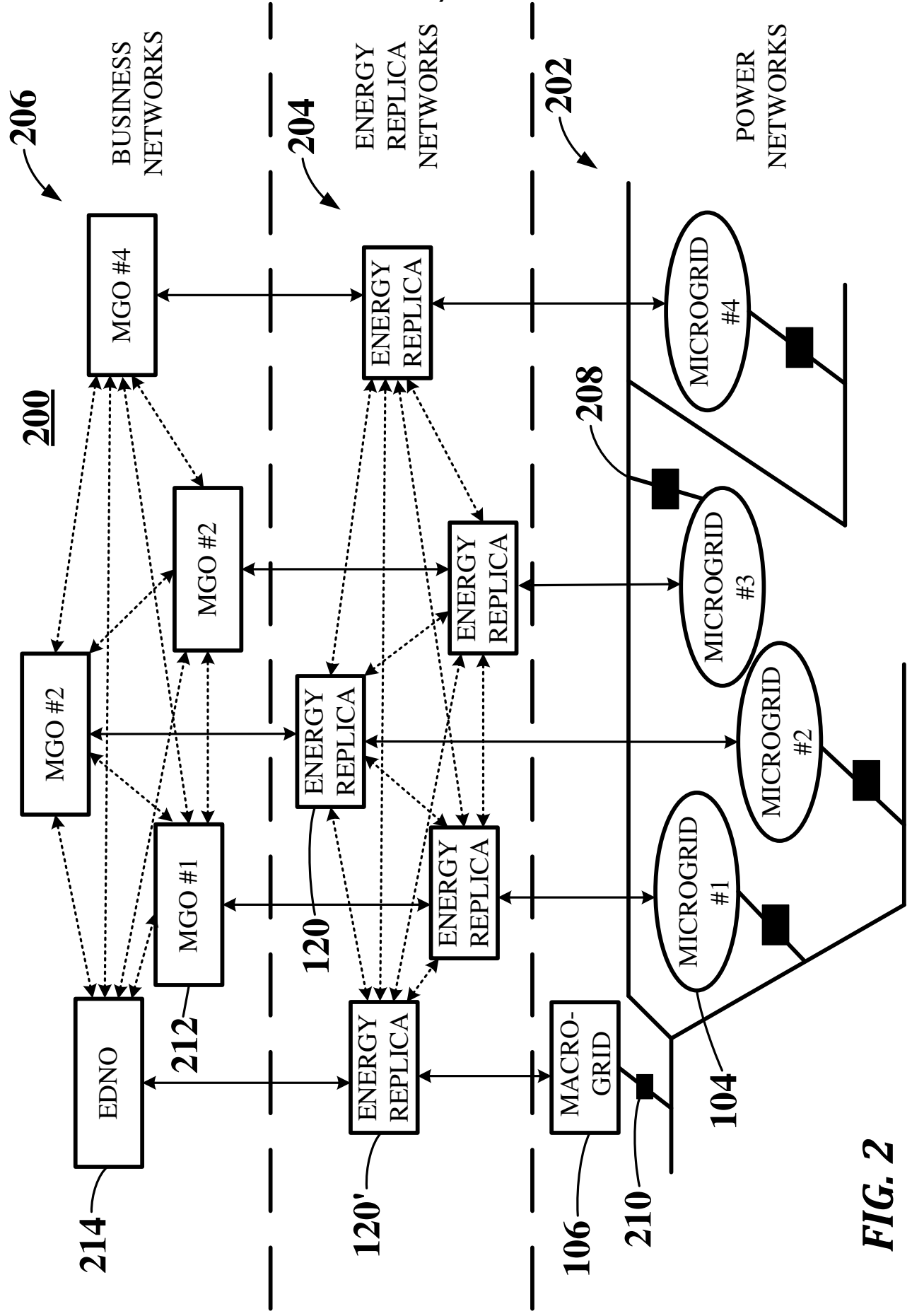


FIG. 2

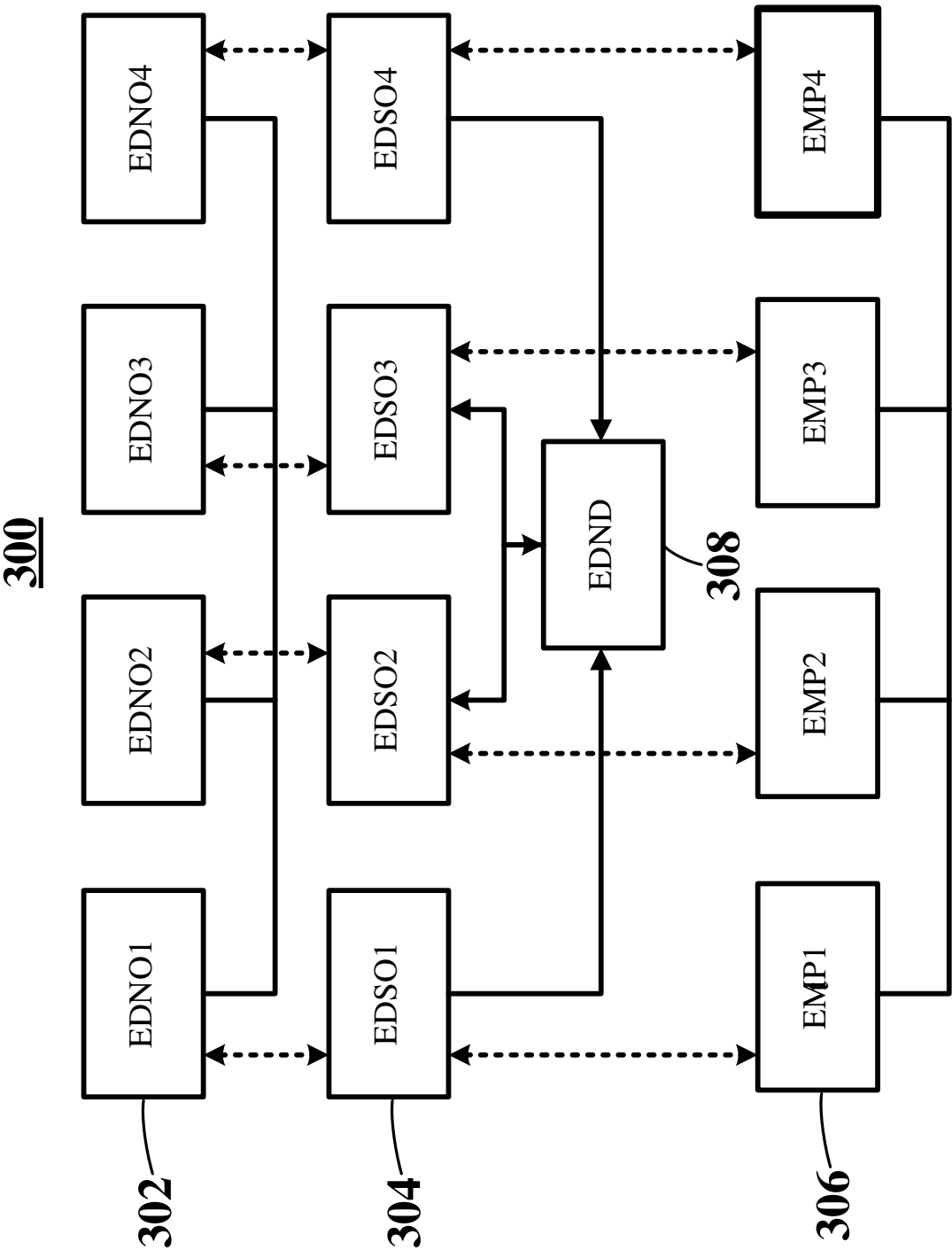


FIG. 3

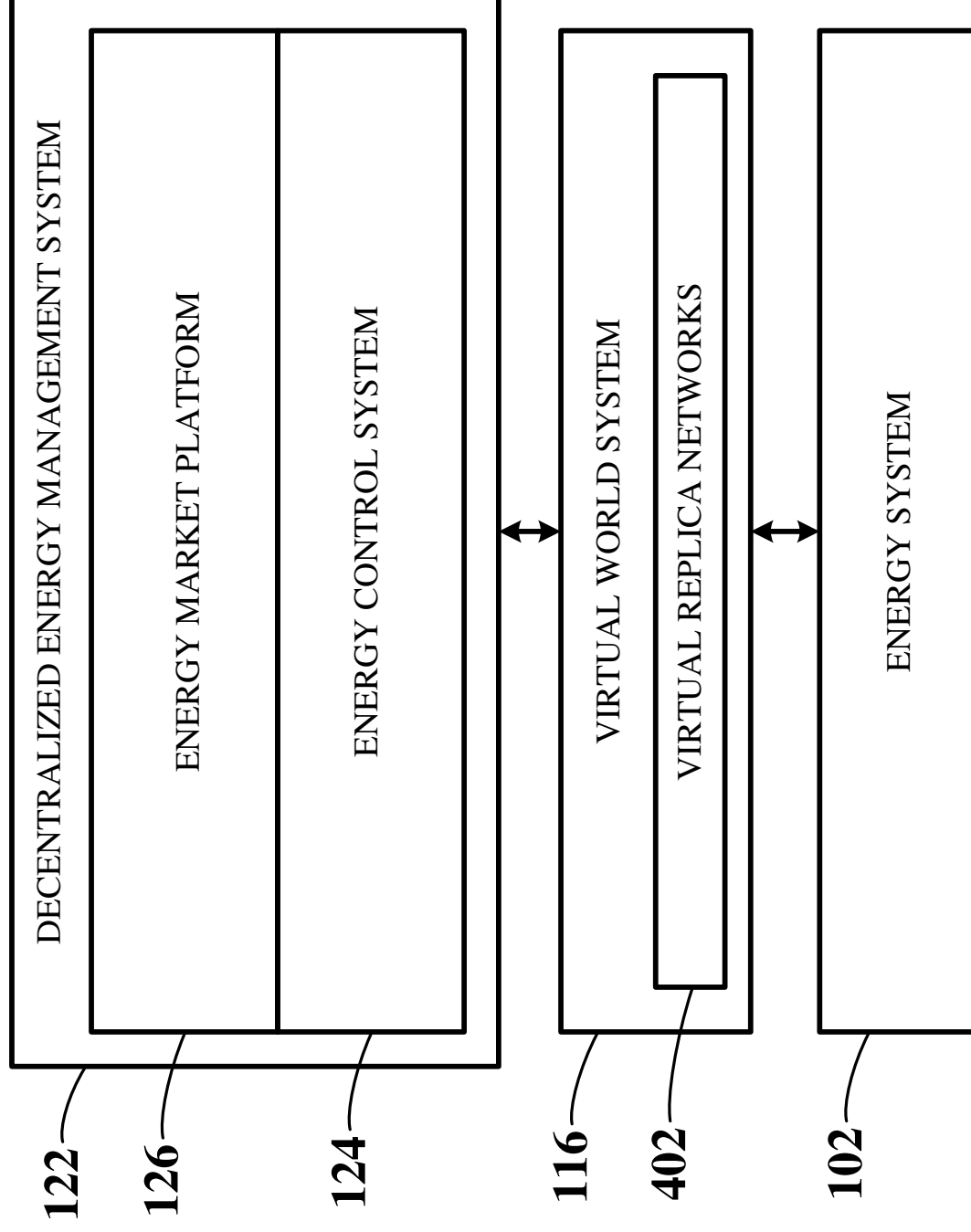


FIG. 4A

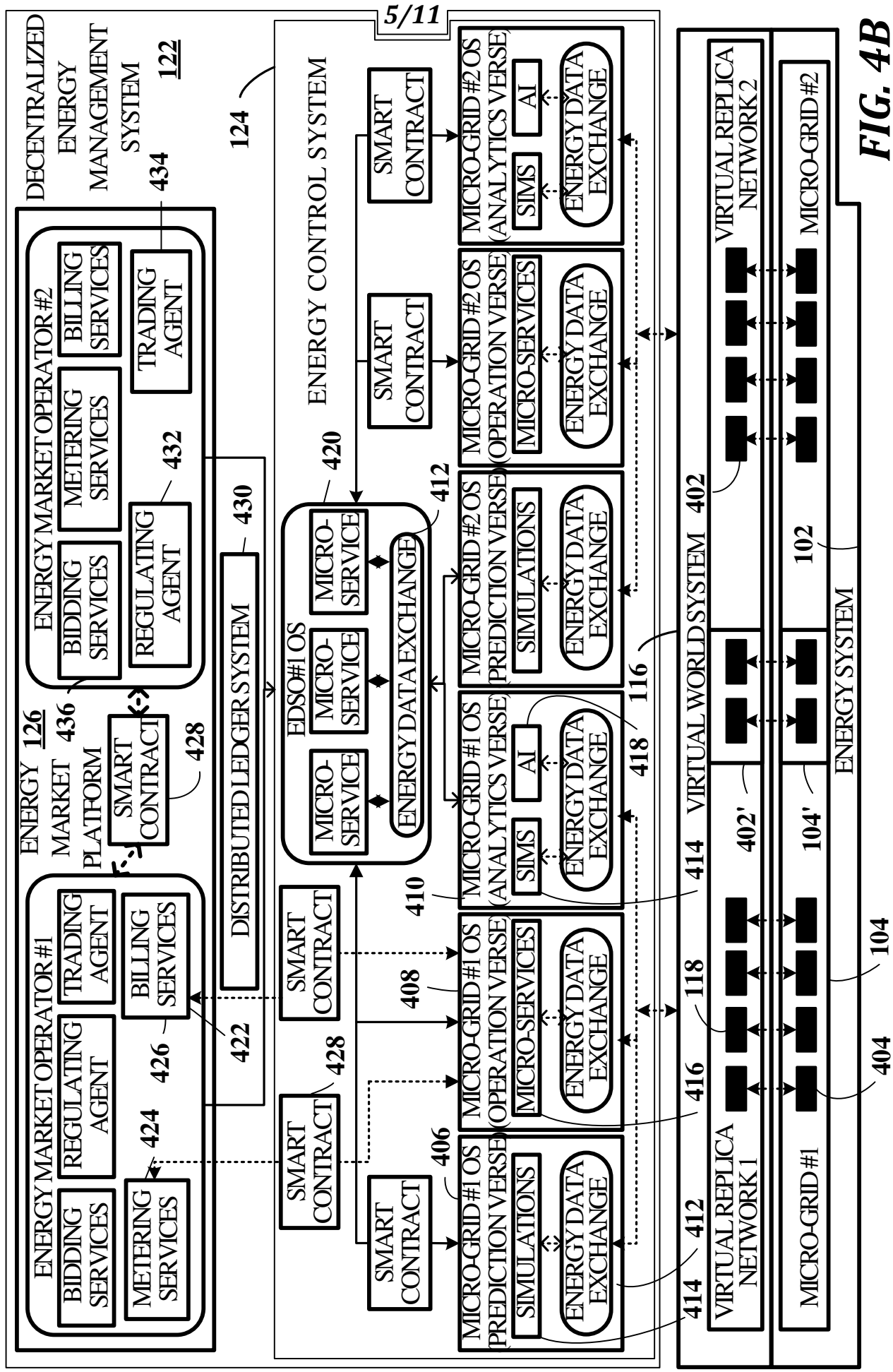
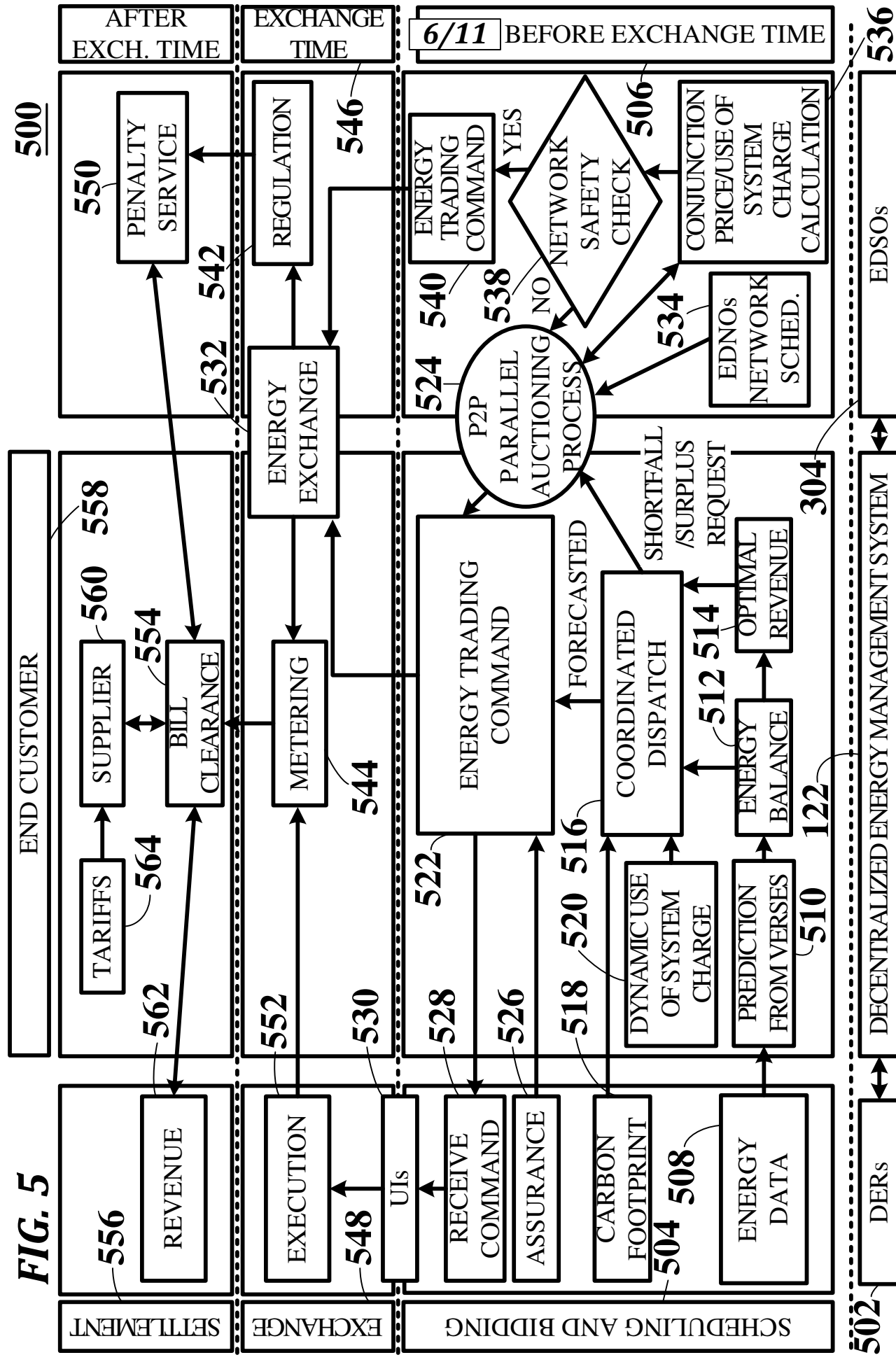


FIG. 4B

FIG. 5



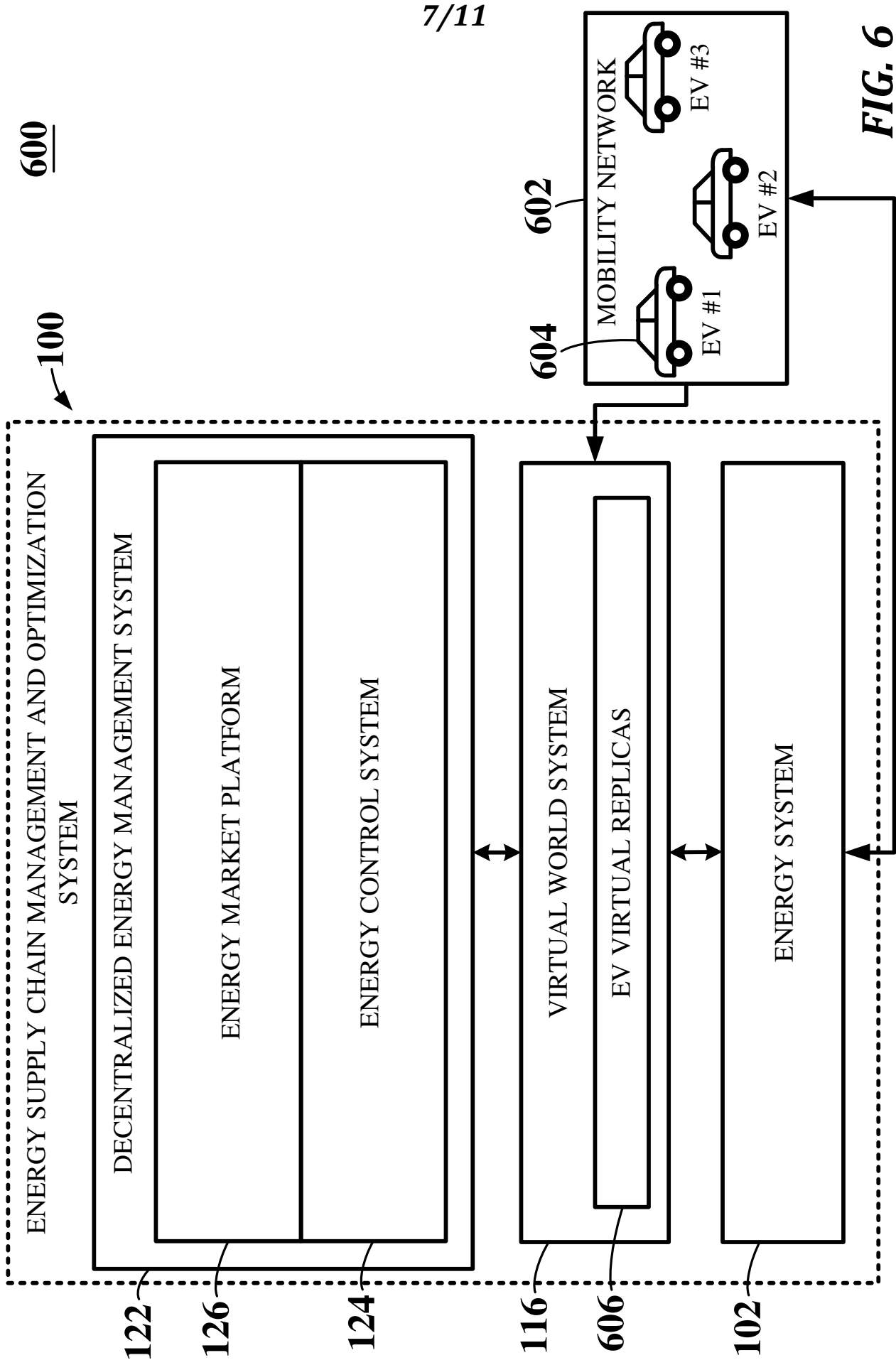


FIG. 6

700

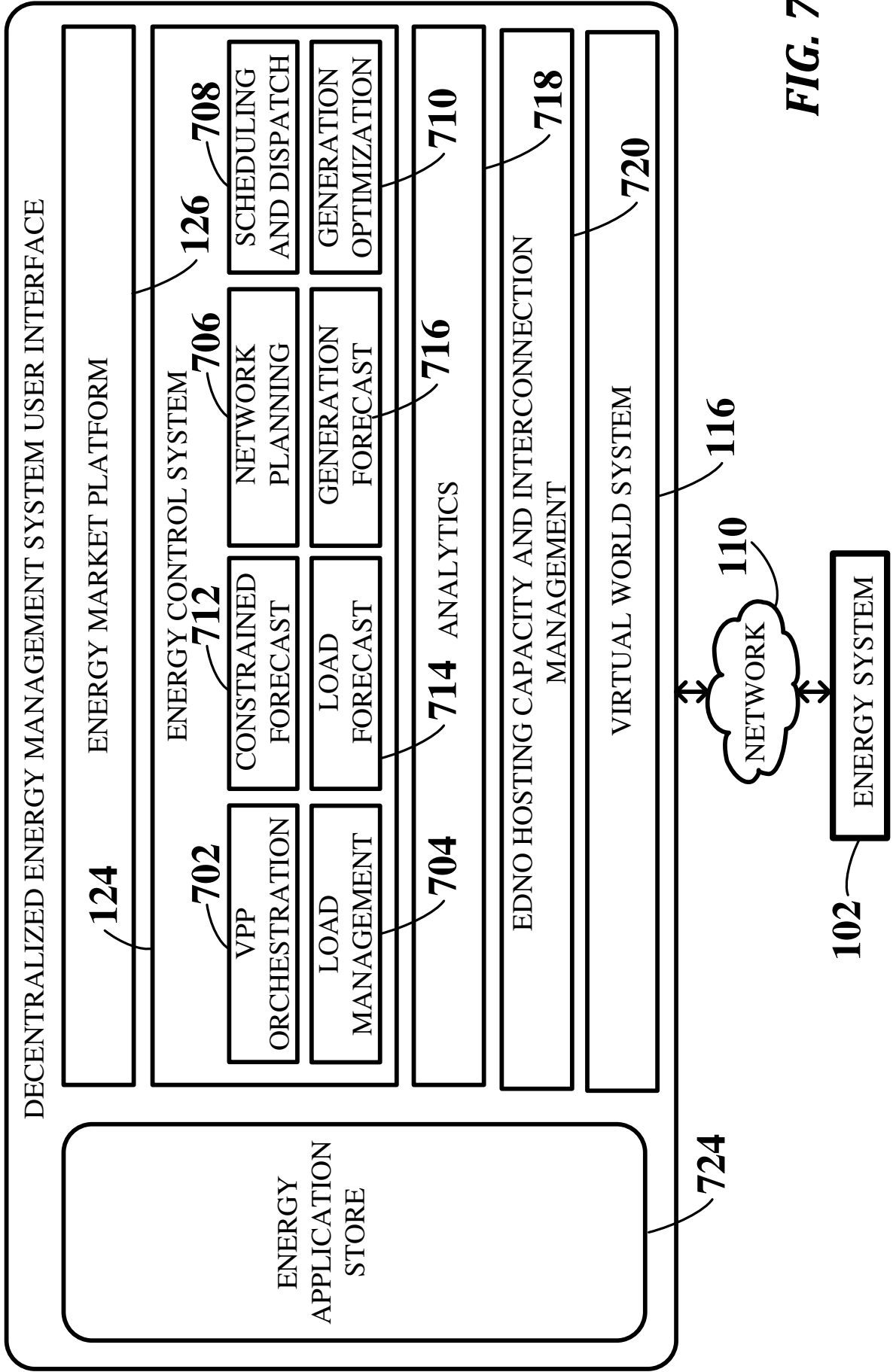


FIG. 7

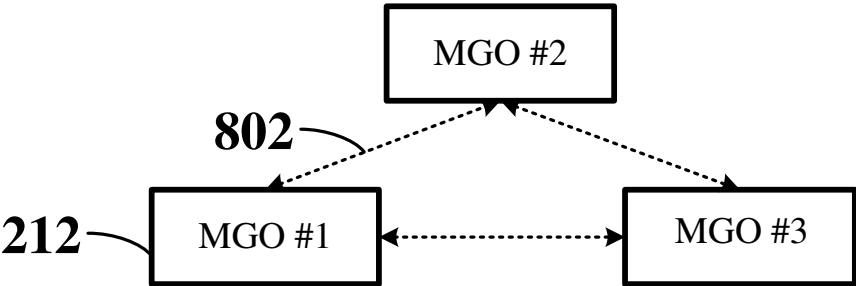


FIG. 8A

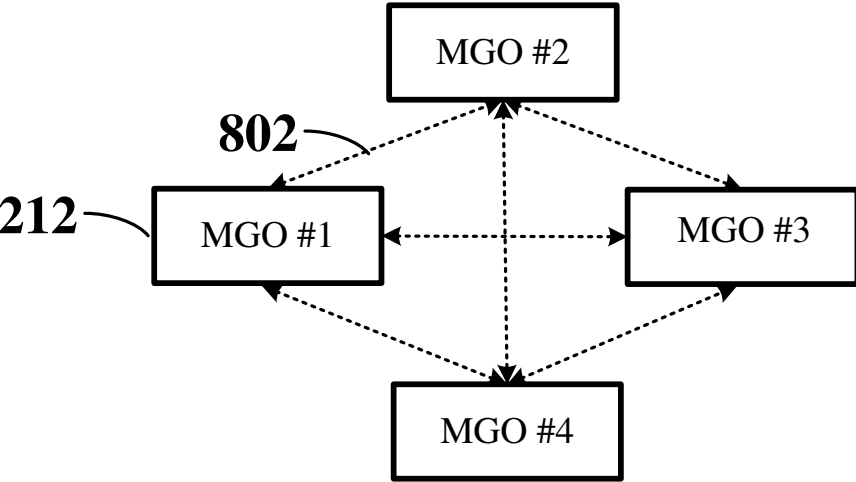


FIG. 8B

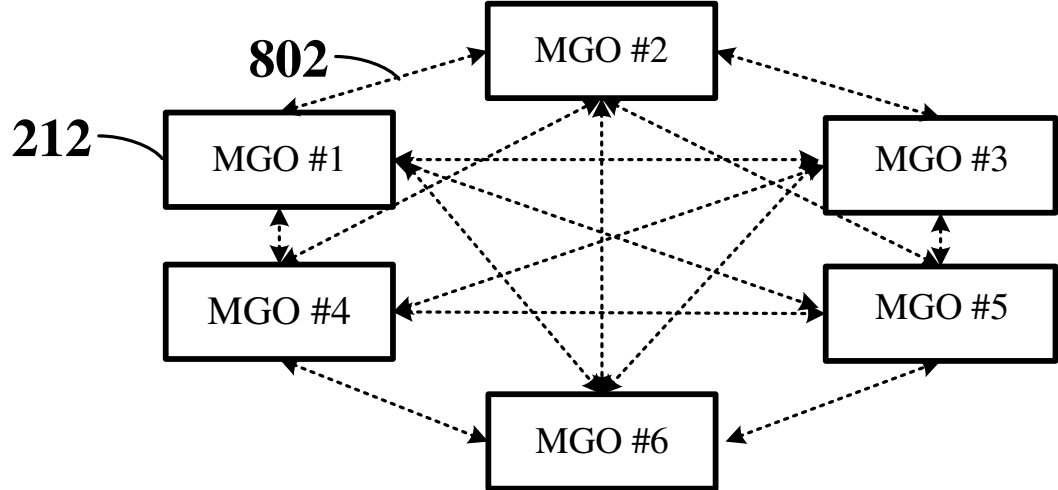


FIG. 8C

900

PROVIDE PERSISTENT VIRTUAL WORLD SYSTEM CONNECTED TO AN ENERGY SYSTEM

902

PROVIDE DECENTRALIZED ENERGY MANAGEMENT SYSTEM CONNECTED TO THE PERSISTENT VIRTUAL WORLD SYSTEM COMPRISING AT LEAST AN ENERGY CONTROL SYSTEM AND AN ENERGY MARKET PLATFORM

904

RECEIVE, BY THE PERSISTENT VIRTUAL WORLD SYSTEM, ENERGY DATA FROM THE ENERGY SYSTEM THAT IS USED TO UPDATE THE VIRTUAL REPLICAS IN THE PERSISTENT VIRTUAL WORLD SYSTEM

906

RECEIVE, BY THE ENERGY CONTROL SYSTEM, UPDATED ENERGY DATA FROM THE PERSISTENT VIRTUAL WORLD SYSTEM AND ENERGY TRANSACTION DATA FROM THE ENERGY MARKET PLATFORM

908

COORDINATE FUNCTIONS BETWEEN THE ENERGY CONTROL SYSTEM AND ENERGY MARKET PLATFORM, THROUGH THE VIRTUALIZATION OF REALITY IN THE PERSISTENT VIRTUAL WORLD SYSTEM, IN ORDER TO INTEGRATE AND CONTROL ENERGY FLOWS BASED ON DATA RECEIVED FROM THE ENERGY SYSTEM

910

AGGREGATE AND EXCHANGE ENERGY BETWEEN ENERGY ACTORS THROUGH ENERGY-RELATED DEVICES VIA THE ENERGY MARKET PLATFORM

912

1000

1002

1004

1006

1008

1010

1012

1014

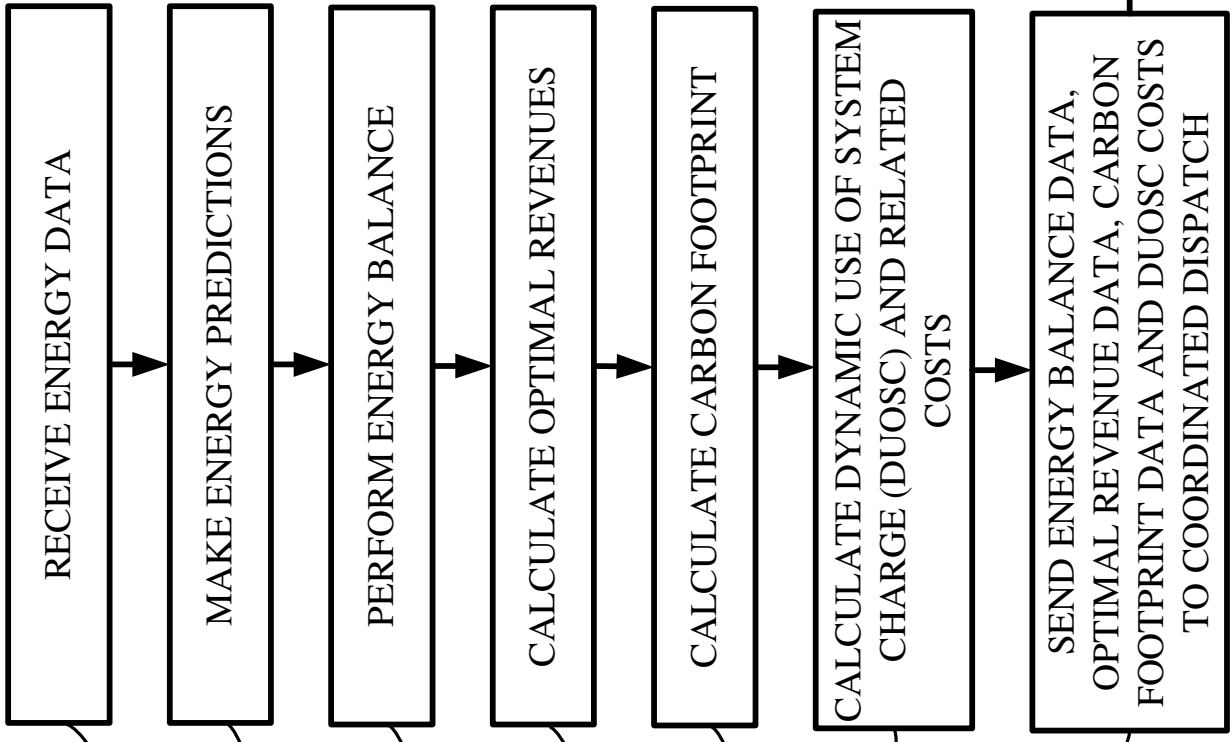


FIG. 10

