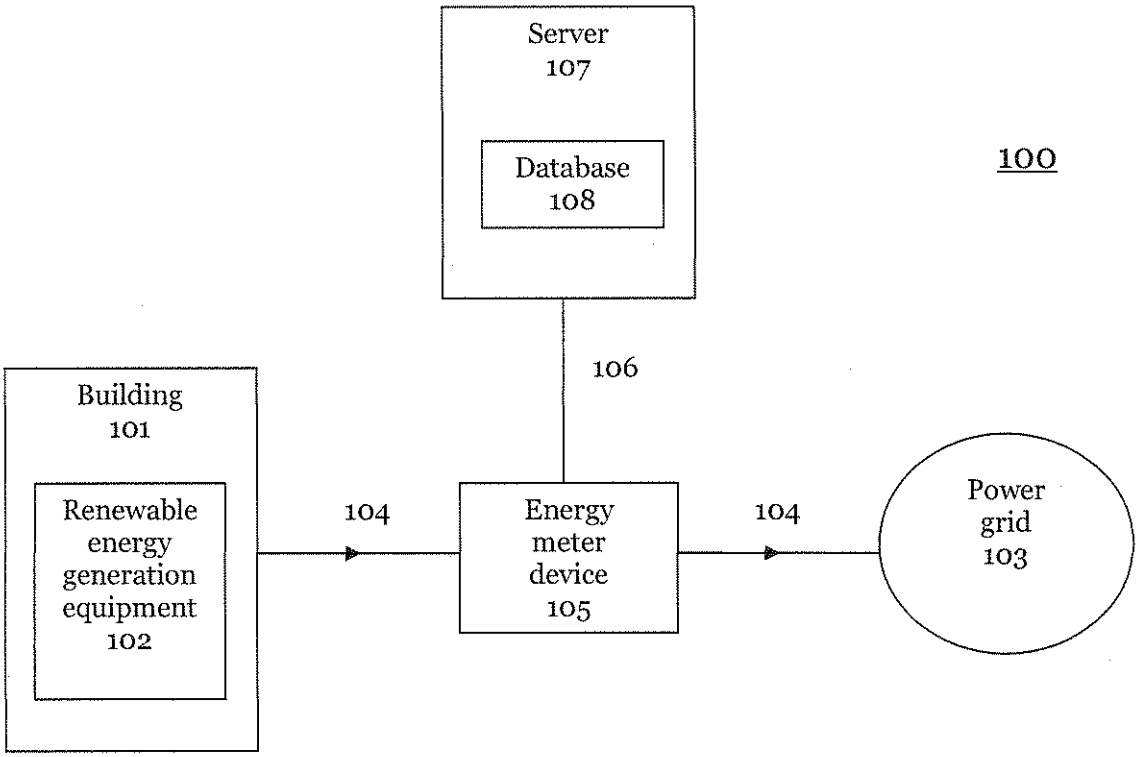

Server
107
Database
108
100
106
Building
101
Renewable
energy
generation
equipment
102
104
Energy
meter
device
105
104
Power
grid
103

Figure 1

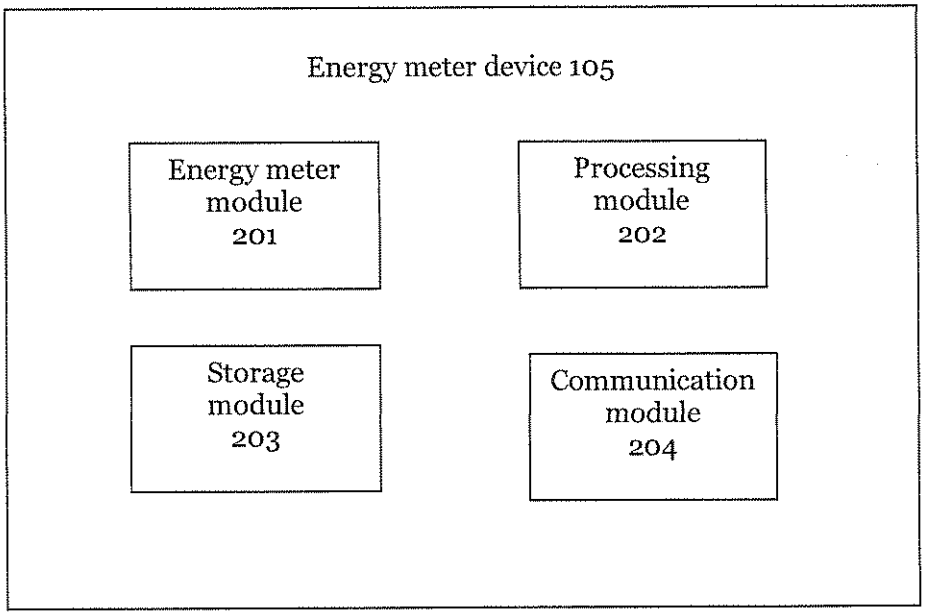

Energy meter device 105
Energy meter module 201
Processing module 202
Storage module 203
Communication module 204

Figure 2

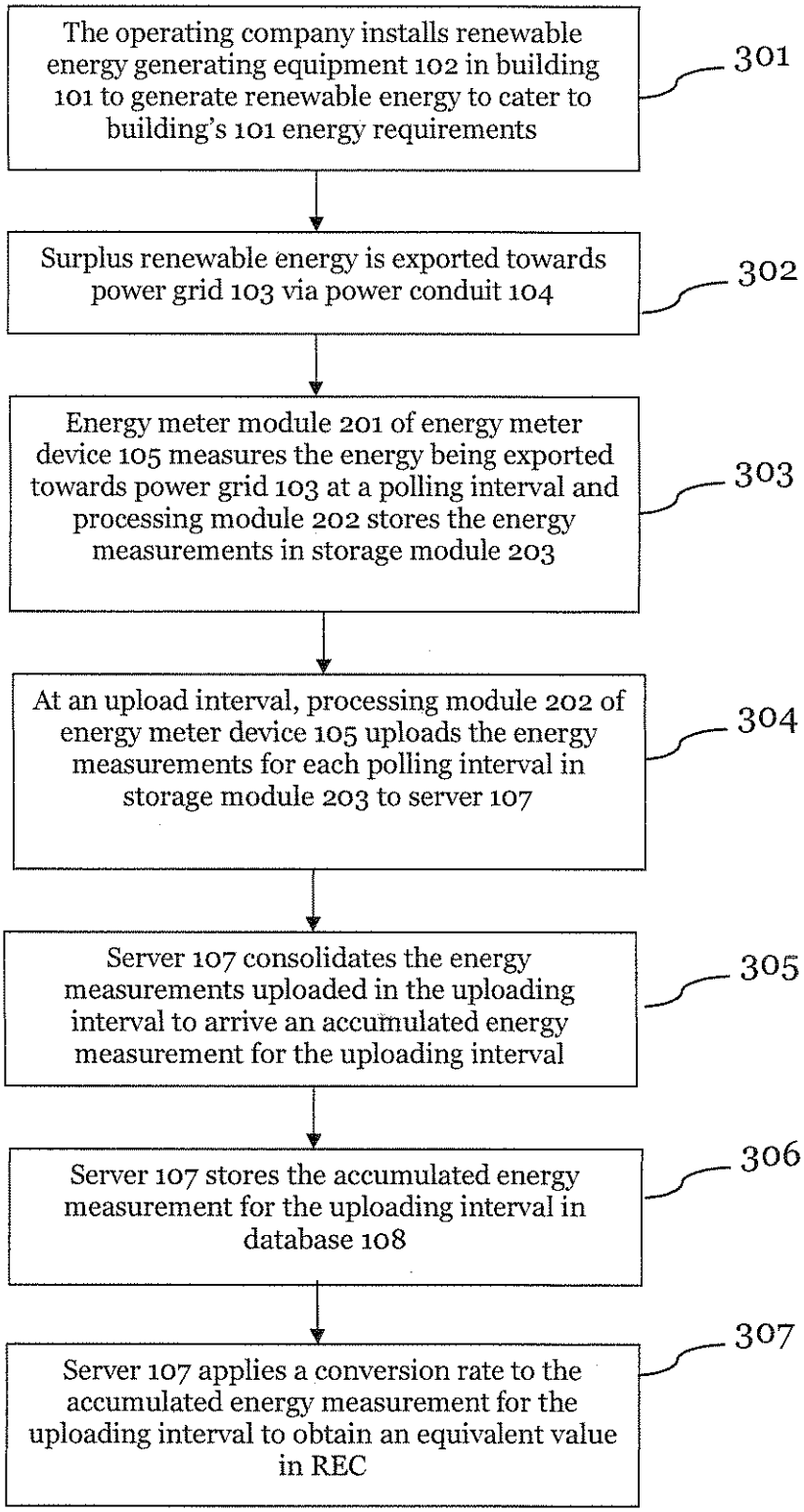

The operating company installs renewable energy generating equipment 102 in building 101 to generate renewable energy to cater to building's 101 energy requirements
301
Surplus renewable energy is exported towards power grid 103 via power conduit 104
302
Energy meter module 201 of energy meter device 105 measures the energy being exported towards power grid 103 at a polling interval and processing module 202 stores the energy measurements in storage module 203
303
At an upload interval, processing module 202 of energy meter device 105 uploads the energy measurements for each polling interval in storage module 203 to server 107
304
Server 107 consolidates the energy measurements uploaded in the uploading interval to arrive an accumulated energy measurement for the uploading interval
305
Server 107 stores the accumulated energy measurement for the uploading interval in database 108
306
Server 107 applies a conversion rate to the accumulated energy measurement for the uploading interval to obtain an equivalent value in REC
307

Figure 3

108

Identifier of energy meter device 105	Time and date	Accumulated Energy measurements for each upload interval (kWh)	Renewable energy credit points (REC)
Identifier 1	12.00 – 12.30; dd-mm-yyyy	1000	1
Identifier 1	12.30 – 13.00; dd-mm-yyyy	3000	3
Identifier 1	13.00 – 13.30; dd-mm-yyyy	5000	5
Identifier 2	12.00 – 12.30; dd-mm-yyyy	10000	10
Identifier 2	12.30 – 13.00; dd-mm-yyyy	8000	8
Identifier 2	13.00 – 13.30; dd-mm-yyyy	12000	12

Figure 4

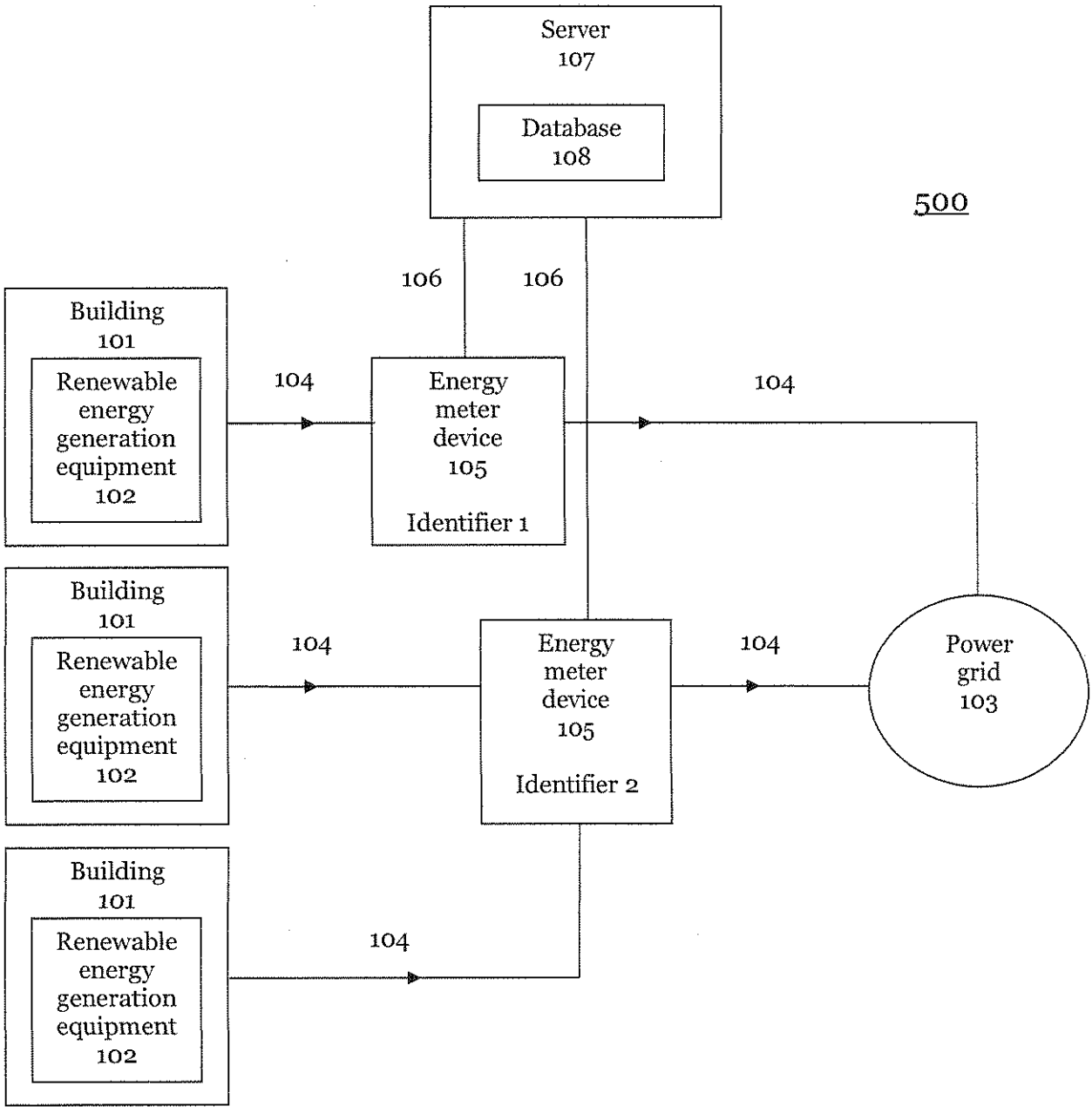

Server
107
Database
108
500
106
106
Building
101
Renewable
energy
generation
equipment
102
104
Energy
meter
device
105
Identifier 1
104
Building
101
Renewable
energy
generation
equipment
102
104
Energy
meter
device
105
Identifier 2
104
Power
grid
103
Building
101
Renewable
energy
generation
equipment
102
104

Figure 5