```
┌─────────────────────────────────────────────────────┐
│   IDENTIFY MALFUNCTIONING SOLAR PANELS IN SOLAR PANEL │
│                     MANAGEMENT                        │
│                        102                            │
└─────────────────────────────────────────────────────┘
                          │
                          ▼
┌─────────────────────────────────────────────────────┐
│    ENABLE ACTIVE MONITORING THAT NOTIFIES IF/WHEN     │
│       MALFUNCTIONING SYSTEMS ARE DETECTED             │
│                        104                            │
└─────────────────────────────────────────────────────┘
                          │
                          ▼
┌─────────────────────────────────────────────────────┐
│  CREATE ESTIMATED SOLAR GENERATION DATA FOR EACH      │
│                 INDIVIDUAL CUSTOMER                    │
│                        106                            │
└─────────────────────────────────────────────────────┘
                          │
                          ▼
┌─────────────────────────────────────────────────────┐
│   PROVIDE FURTHER SECURITY AND INFORMATION IN REGARD  │
│     TO WHETHER OR NOT A CUSTOMER'S SYSTEM COULD BE    │
│                   MALFUNCTIONING                       │
│                        108                            │
└─────────────────────────────────────────────────────┘
                          │
                          ▼
┌─────────────────────────────────────────────────────┐
│  CREATE A NEW SERVICE TO FIX ANY MALFUNCTIONING ISSUE │
│        FOR ADDITIONAL REVENUE GENERATION              │
│                        110                            │
└─────────────────────────────────────────────────────┘
```
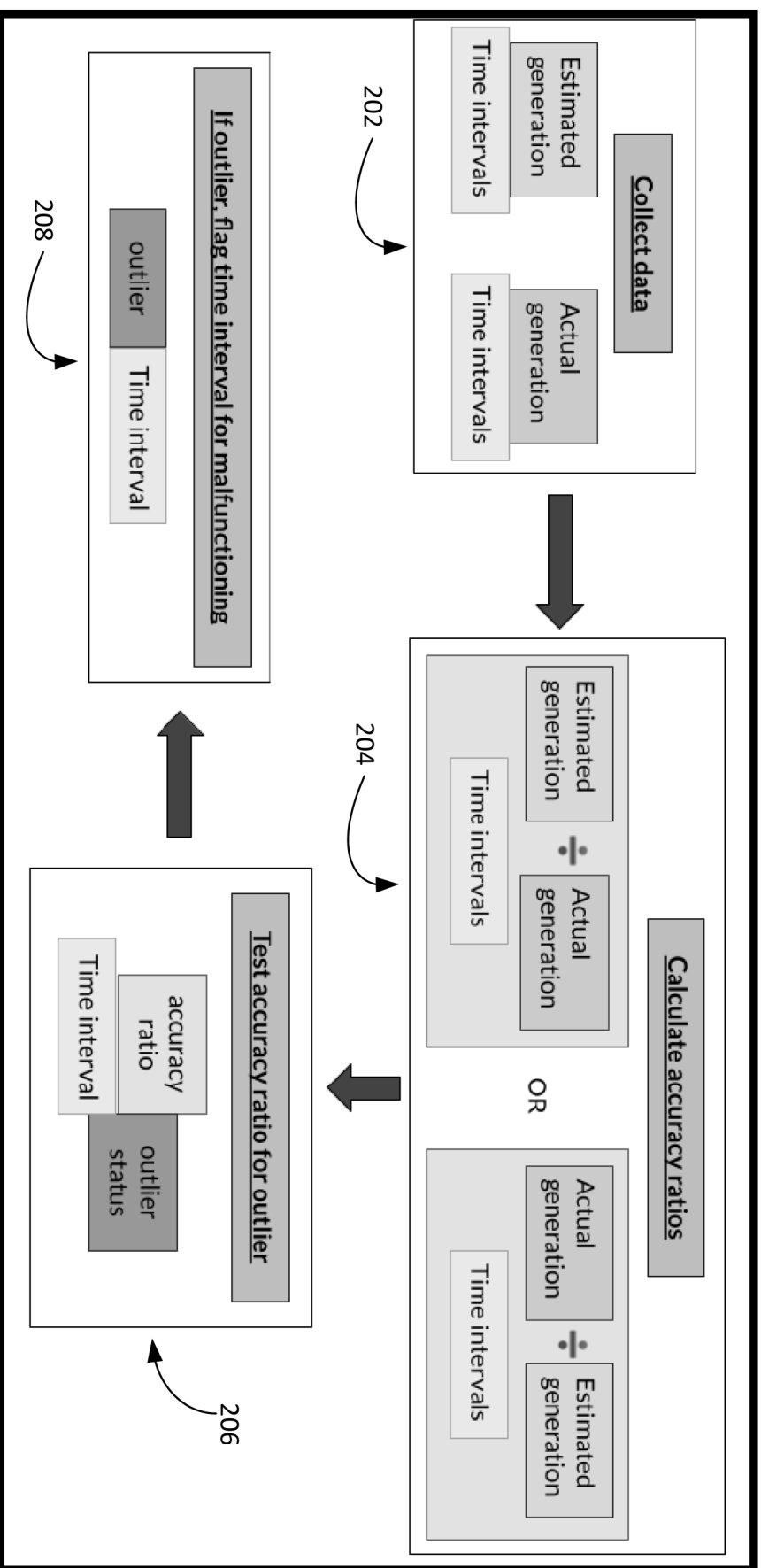
100

FIGURE 1

FIGURE 2

200

Collect data

202

Estimated generation | Time intervals

Actual generation | Time intervals

Calculate accuracy ratios

204

Estimated generation | Time intervals ÷ Actual generation

OR

Actual generation | Time intervals ÷ Estimated generation

Test accuracy ratio for outlier

206

Time interval | accuracy ratio | outlier status

If outlier, flag time interval for malfunctioning

208

outlier | Time interval