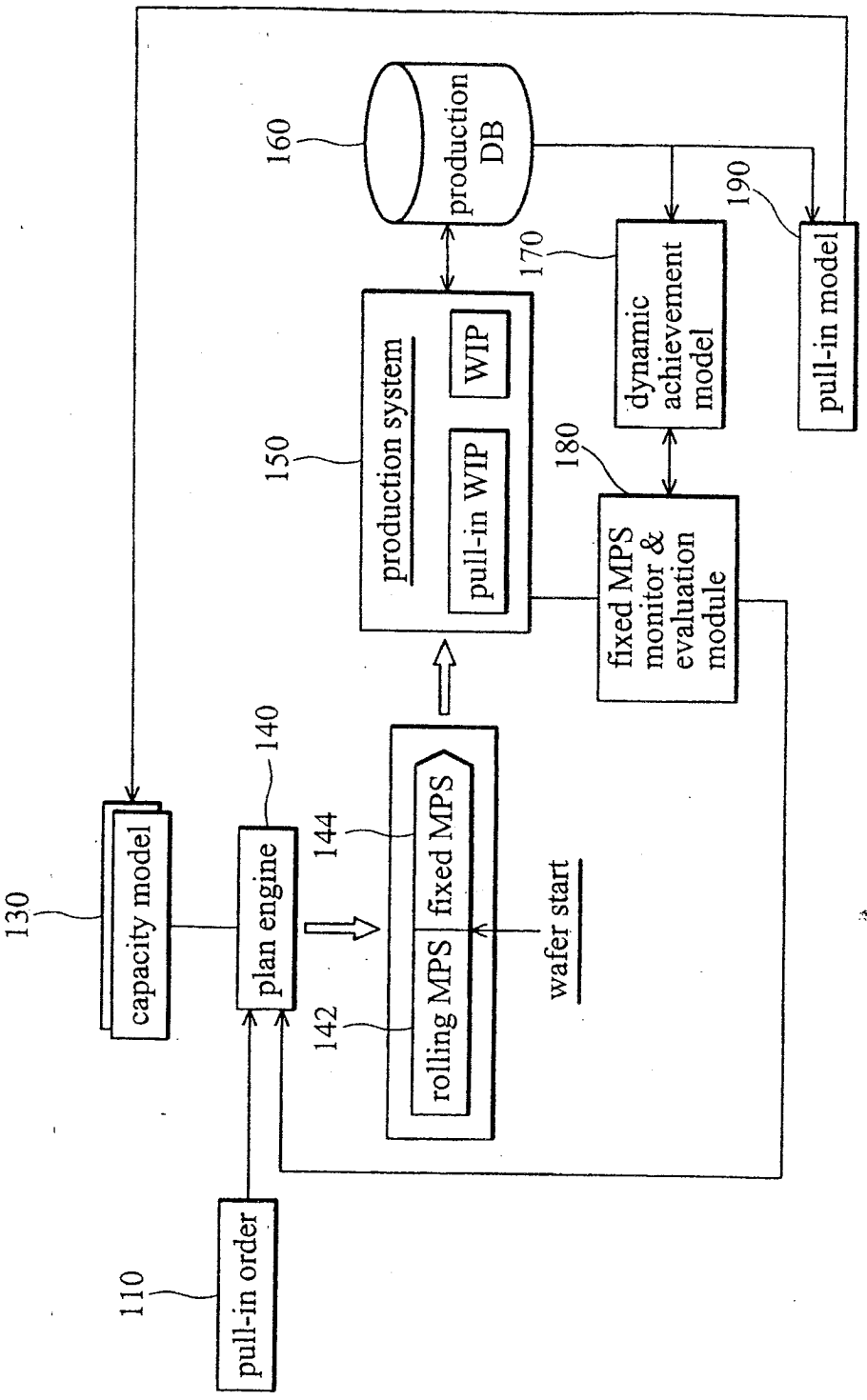

pull-in order
110
capacity model
130
plan engine
140
rolling MPS
fixed MPS
142
144
wafer start
production system
WIP
pull-in WIP
150
production DB
160
dynamic achievement model
170
fixed MPS monitor & evaluation module
180
pull-in model
190

FIG. 1

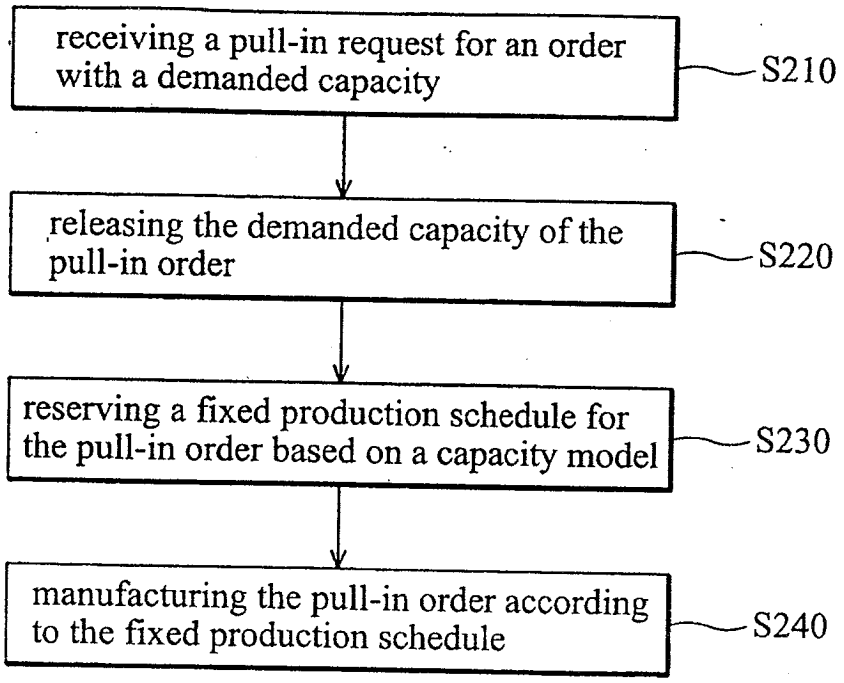

receiving a pull-in request for an order with a demanded capacity
S210
releasing the demanded capacity of the pull-in order
S220
reserving a fixed production schedule for the pull-in order based on a capacity model
S230
manufacturing the pull-in order according to the fixed production schedule
S240

FIG. 2A

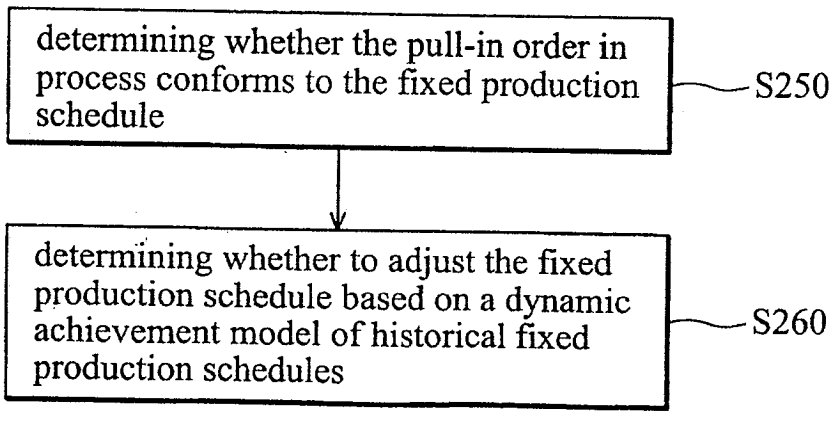

determining whether the pull-in order in process conforms to the fixed production schedule
S250
determining whether to adjust the fixed production schedule based on a dynamic achievement model of historical fixed production schedules
S260

FIG. 2B

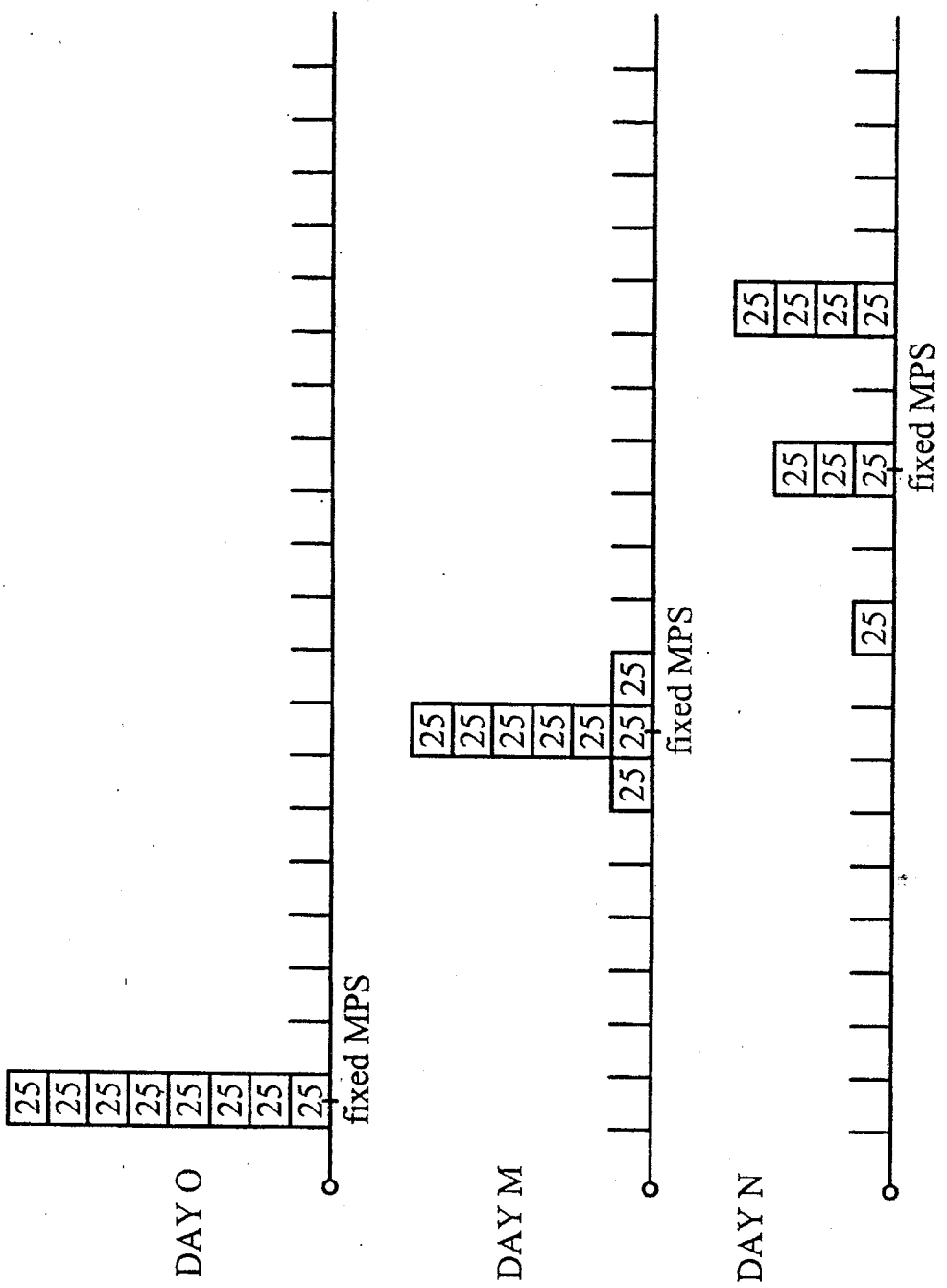

DAY O
25
25
25
25
25
25
25
25
fixed MPS
DAY M
25
25
25
25
25
25
25
fixed MPS
DAY N
25
25
25
25
25
fixed MPS

FIG. 3

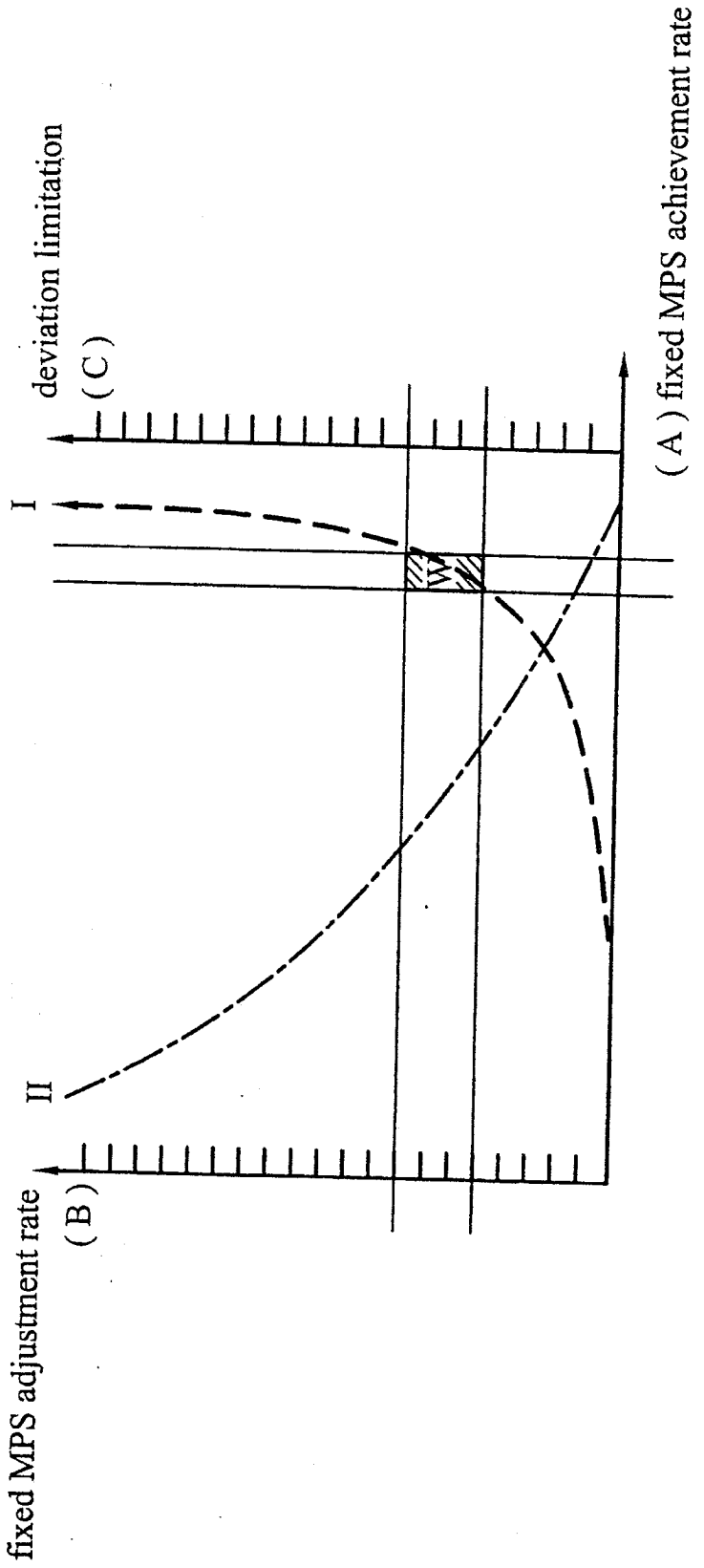

deviation limitation
(C)
I
(A) fixed MPS achievement rate
II
fixed MPS adjustment rate
(B)

FIG. 4

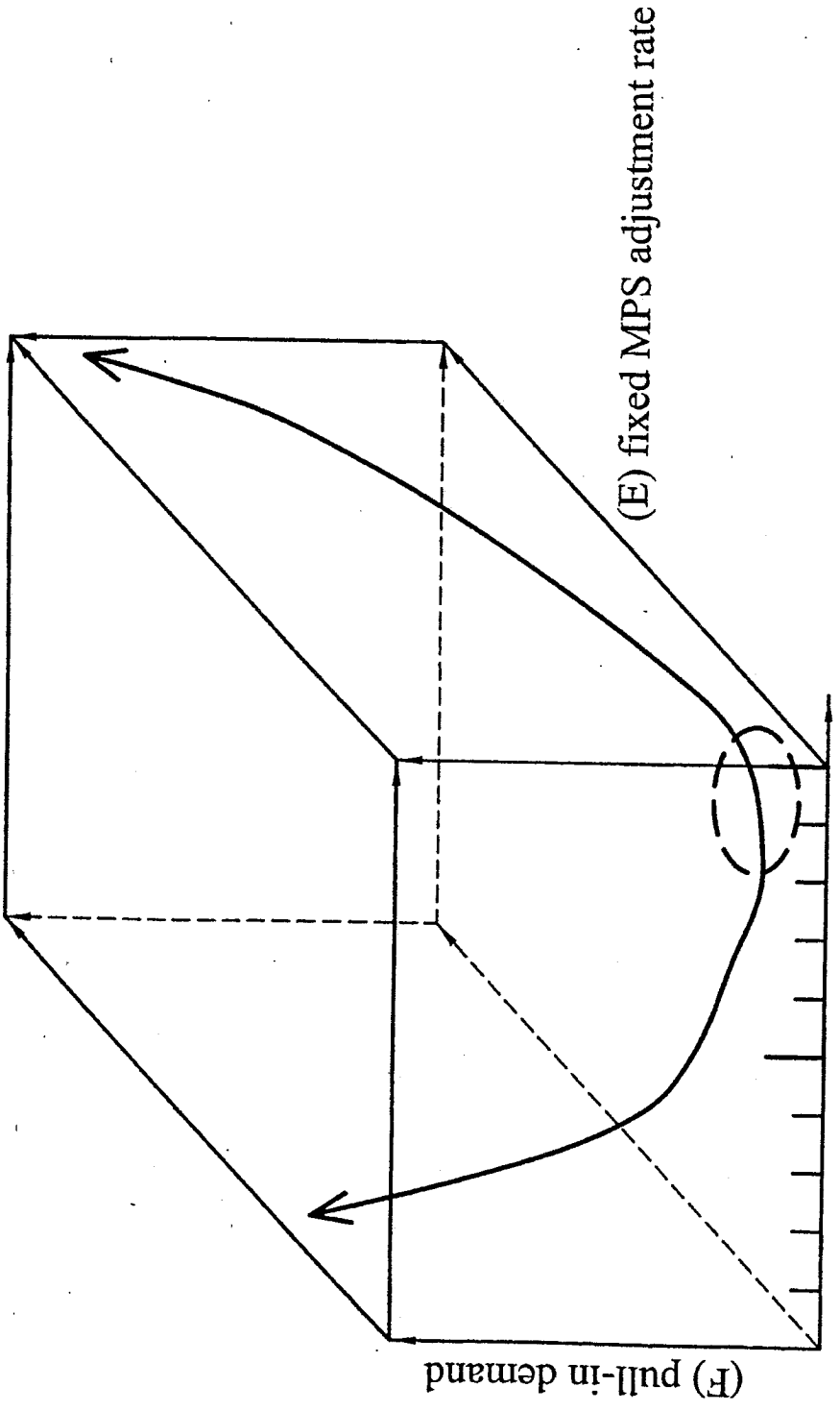

(E) fixed MPS adjustment rate
(D) fixed MPS achievement rate 100%
(F) pull-in demand

FIG. 5

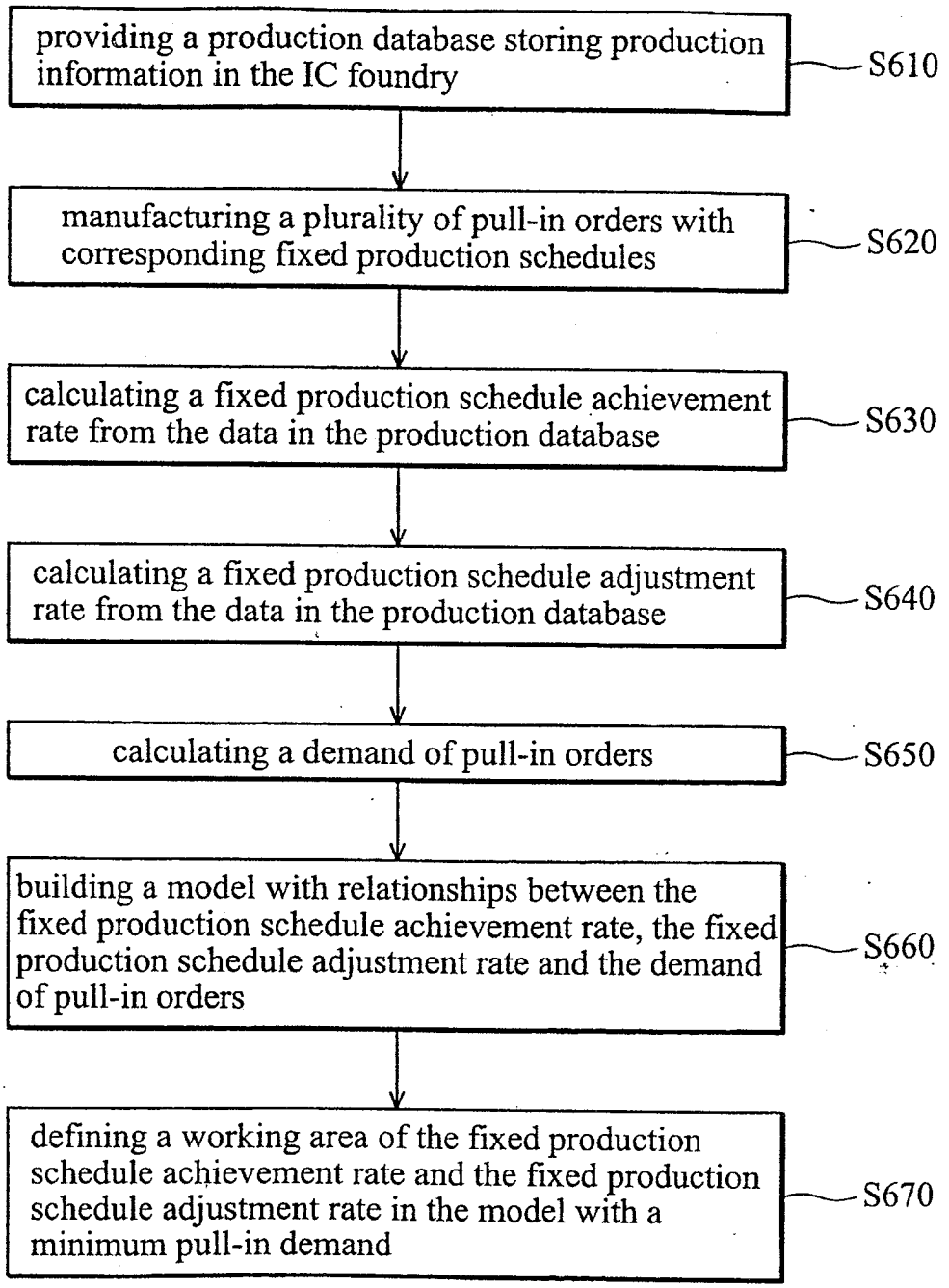

providing a production database storing production information in the IC foundry
S610
manufacturing a plurality of pull-in orders with corresponding fixed production schedules
S620
calculating a fixed production schedule achievement rate from the data in the production database
S630
calculating a fixed production schedule adjustment rate from the data in the production database
S640
calculating a demand of pull-in orders
S650
building a model with relationships between the fixed production schedule achievement rate, the fixed production schedule adjustment rate and the demand of pull-in orders
S660
defining a working area of the fixed production schedule achievement rate and the fixed production schedule adjustment rate in the model with a minimum pull-in demand
S670

FIG. 6