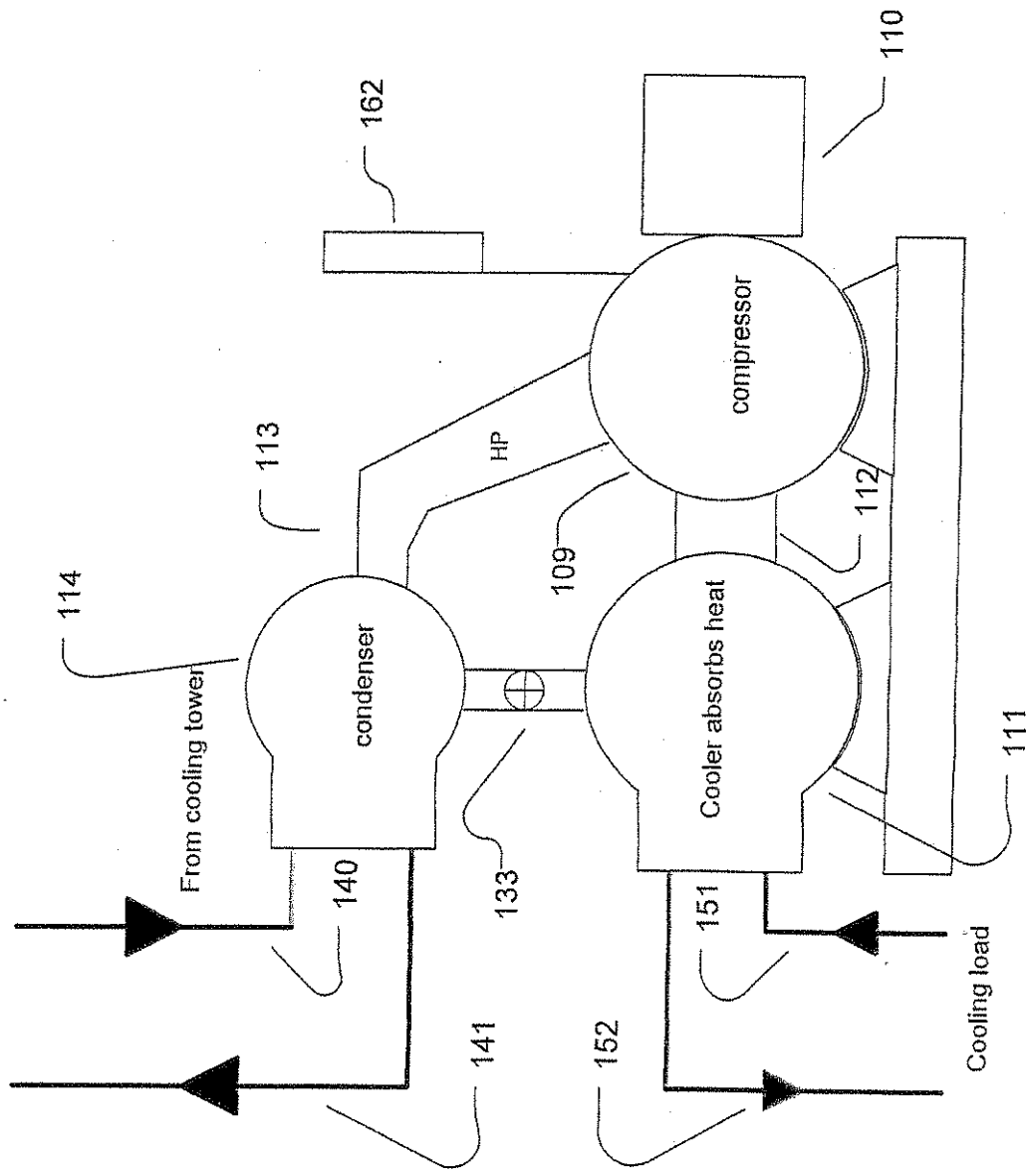


FIGURE 1 (prior art)

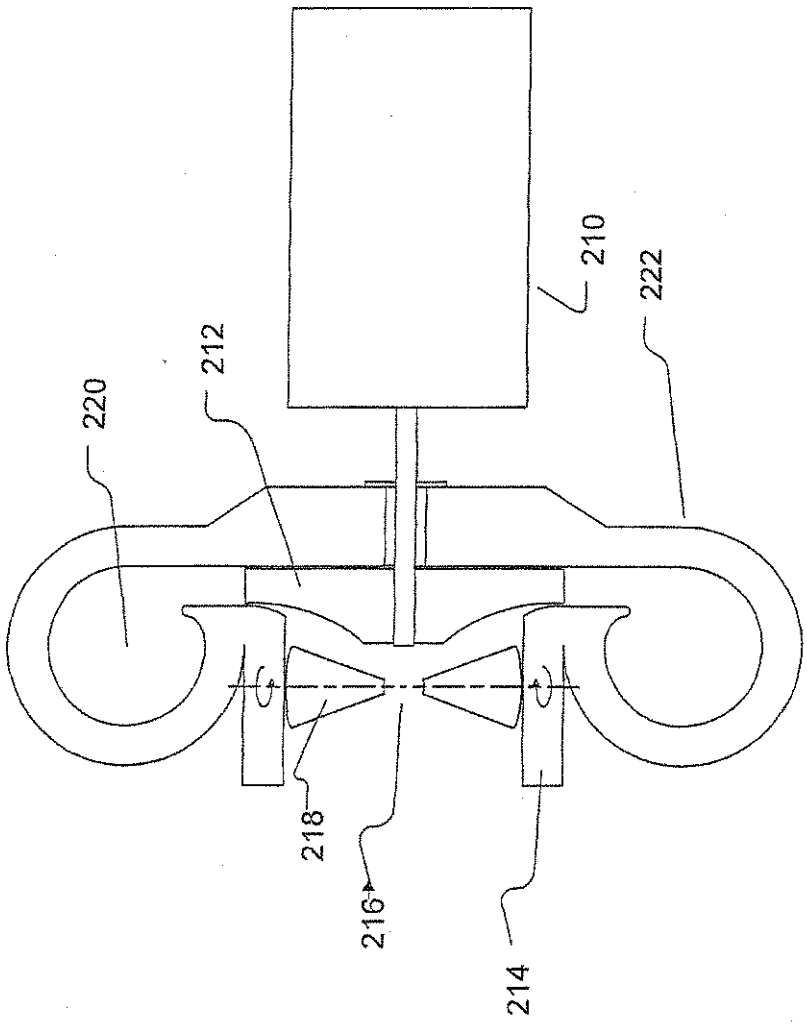


FIG. 2 (prior art)

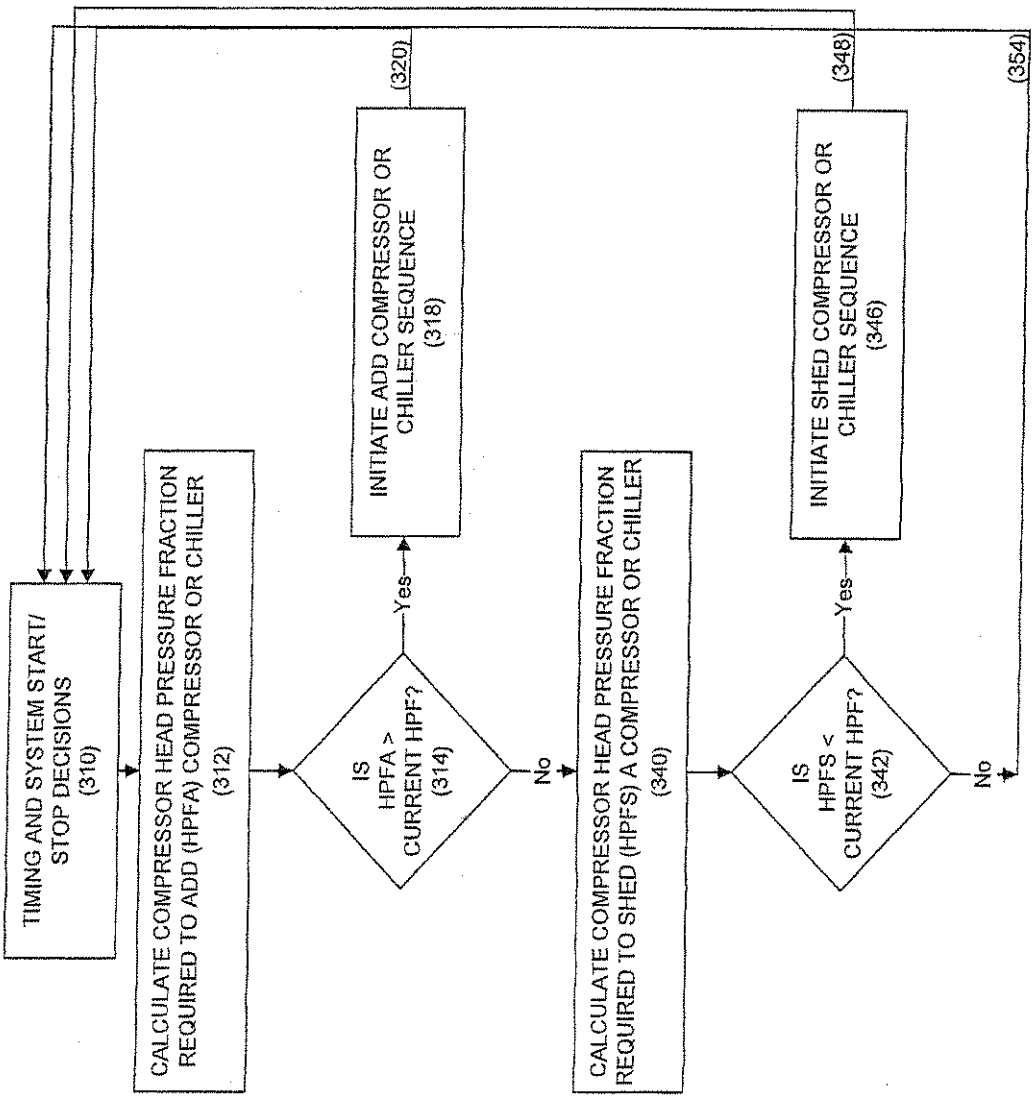


FIGURE 3
PRIOR ART

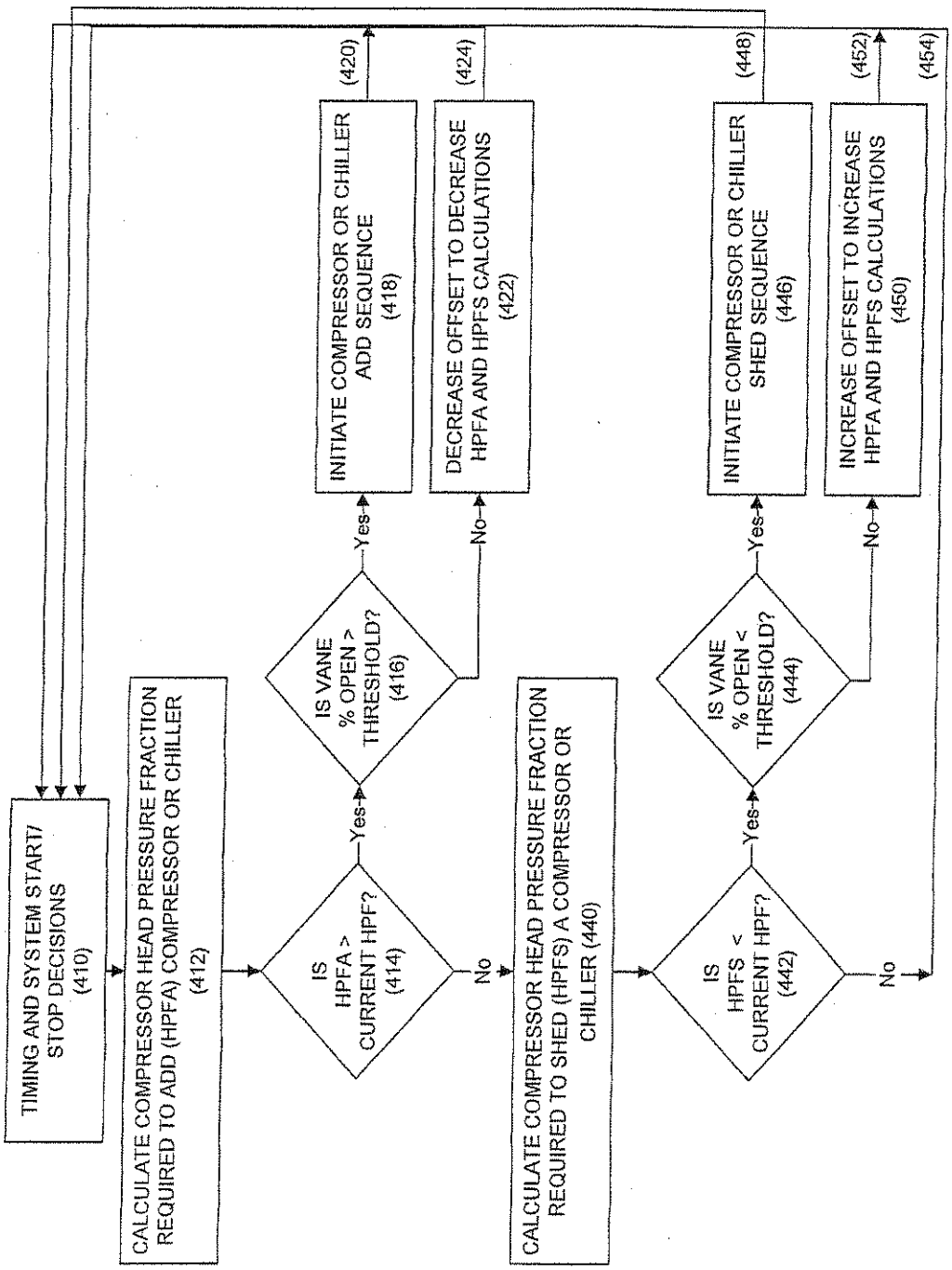

TIMING AND SYSTEM START/ STOP DECISIONS (410)
CALCULATE COMPRESSOR HEAD PRESSURE FRACTION REQUIRED TO ADD (HPFA) COMPRESSOR OR CHILLER (412)
IS HPFA > CURRENT HPF? (414)
Yes
No
IS VANE % OPEN > THRESHOLD? (416)
Yes
No
INITIATE COMPRESSOR OR CHILLER ADD SEQUENCE (418)
(420)
DECREASE OFFSET TO DECREASE HPFA AND HPFS CALCULATIONS (422)
(424)
CALCULATE COMPRESSOR HEAD PRESSURE FRACTION REQUIRED TO SHED (HPFS) A COMPRESSOR OR CHILLER (440)
IS HPFS < CURRENT HPF? (442)
Yes
No
IS VANE % OPEN < THRESHOLD? (444)
Yes
No
INITIATE COMPRESSOR OR CHILLER SHED SEQUENCE (446)
(448)
INCREASE OFFSET TO INCREASE HPFA AND HPFS CALCULATIONS (450)
(452)
(454)

FIG. 4

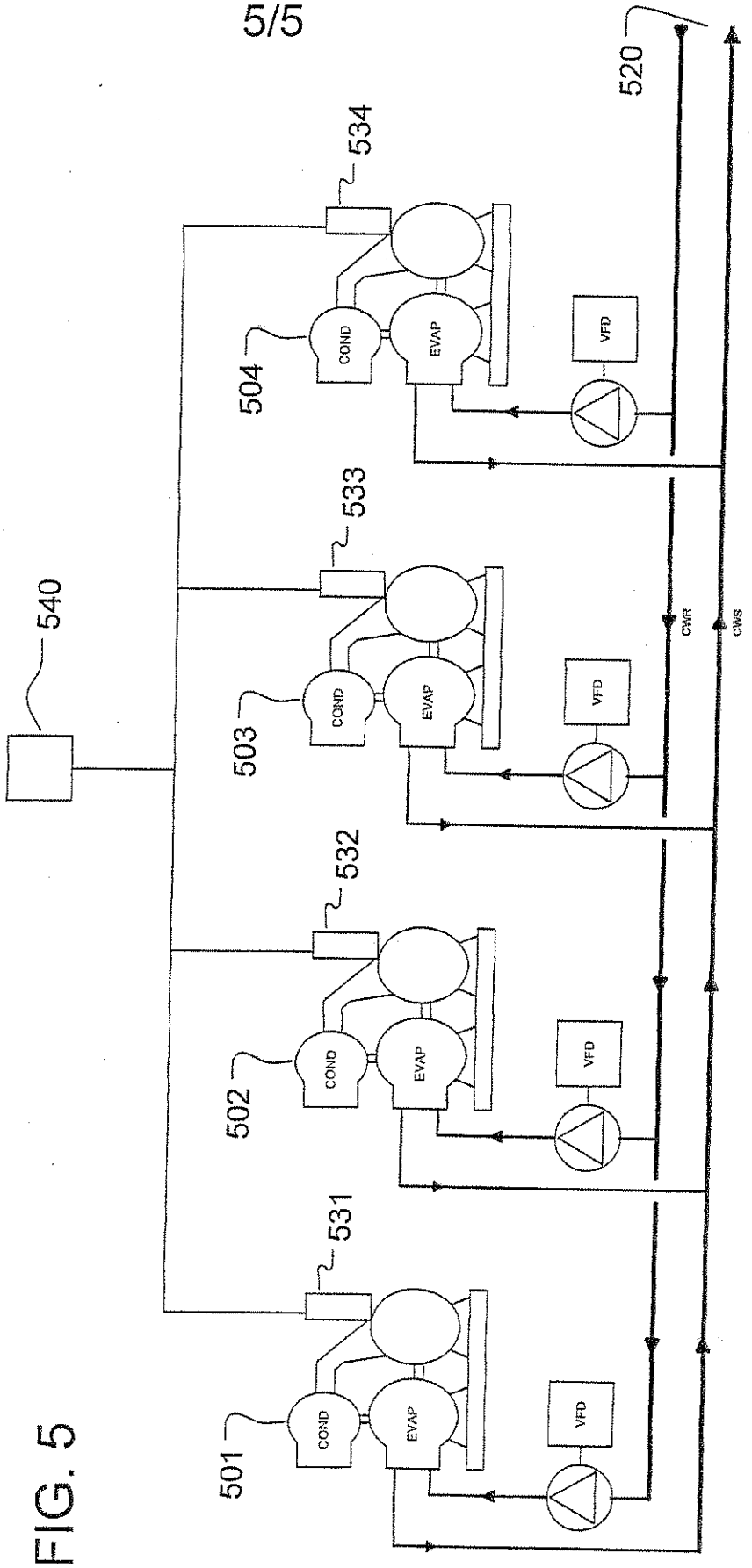

520
534
504
COND
EVAP
VFD
533
503
COND
EVAP
VFD
CWR
CWS
540
532
502
COND
EVAP
VFD
531
501
COND
EVAP
VFD

FIG. 5