

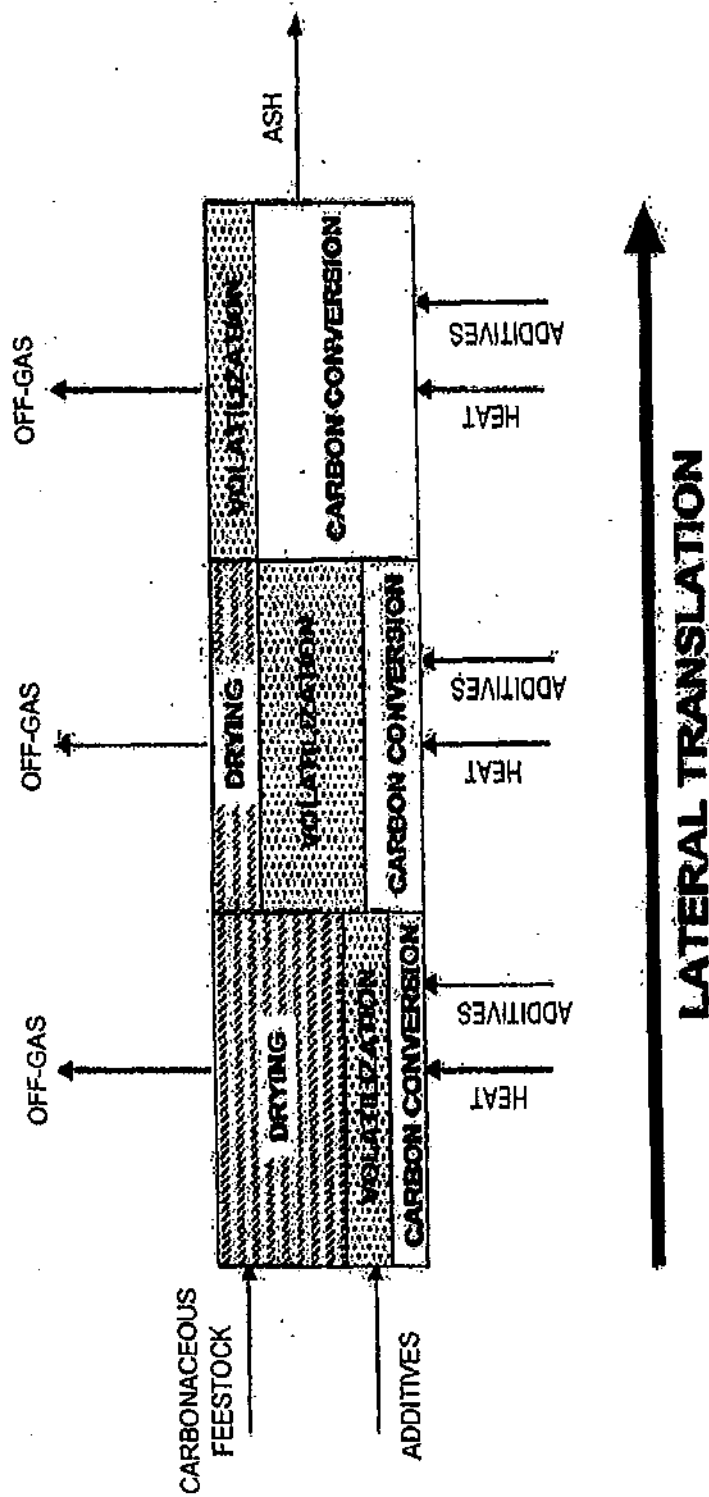


FIGURE 1

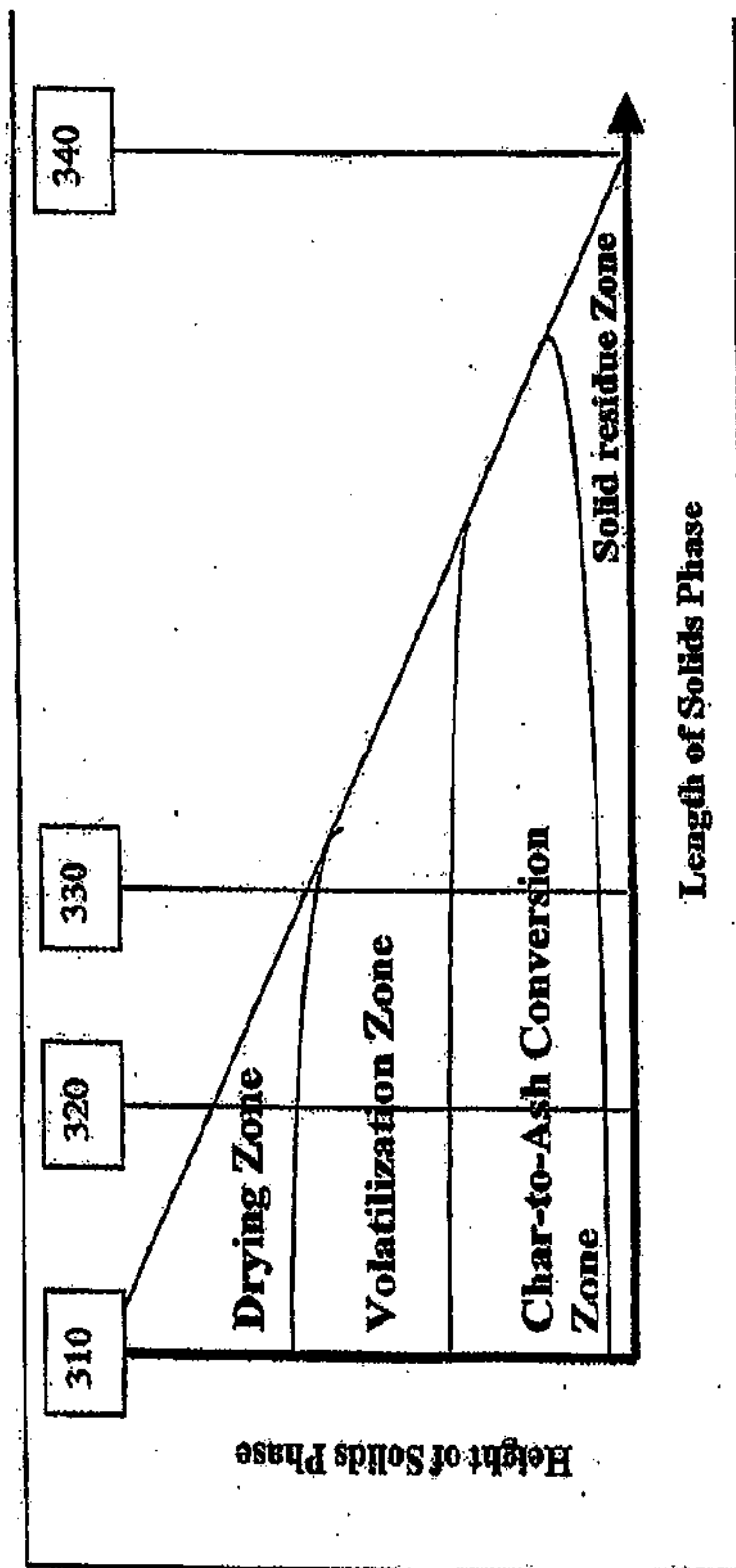


FIGURE 2

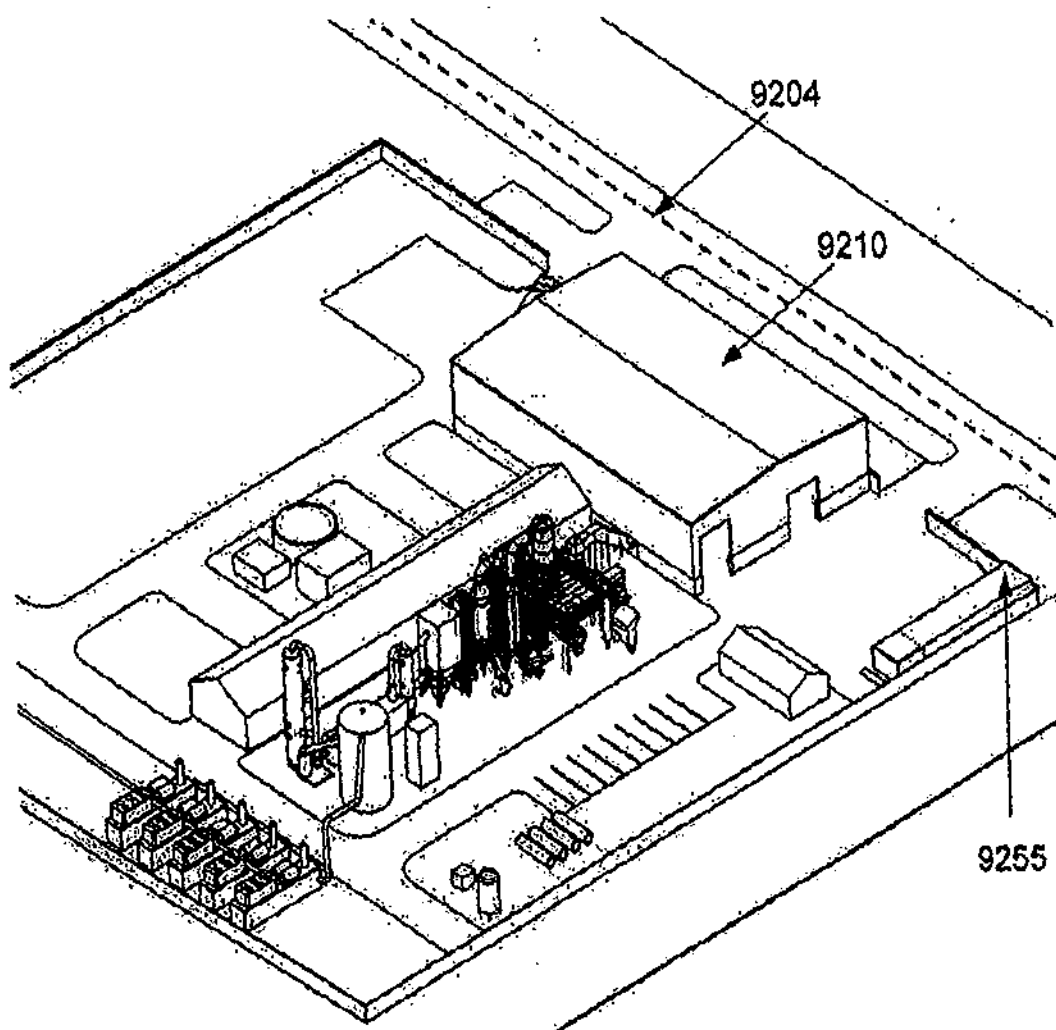


FIGURE 4

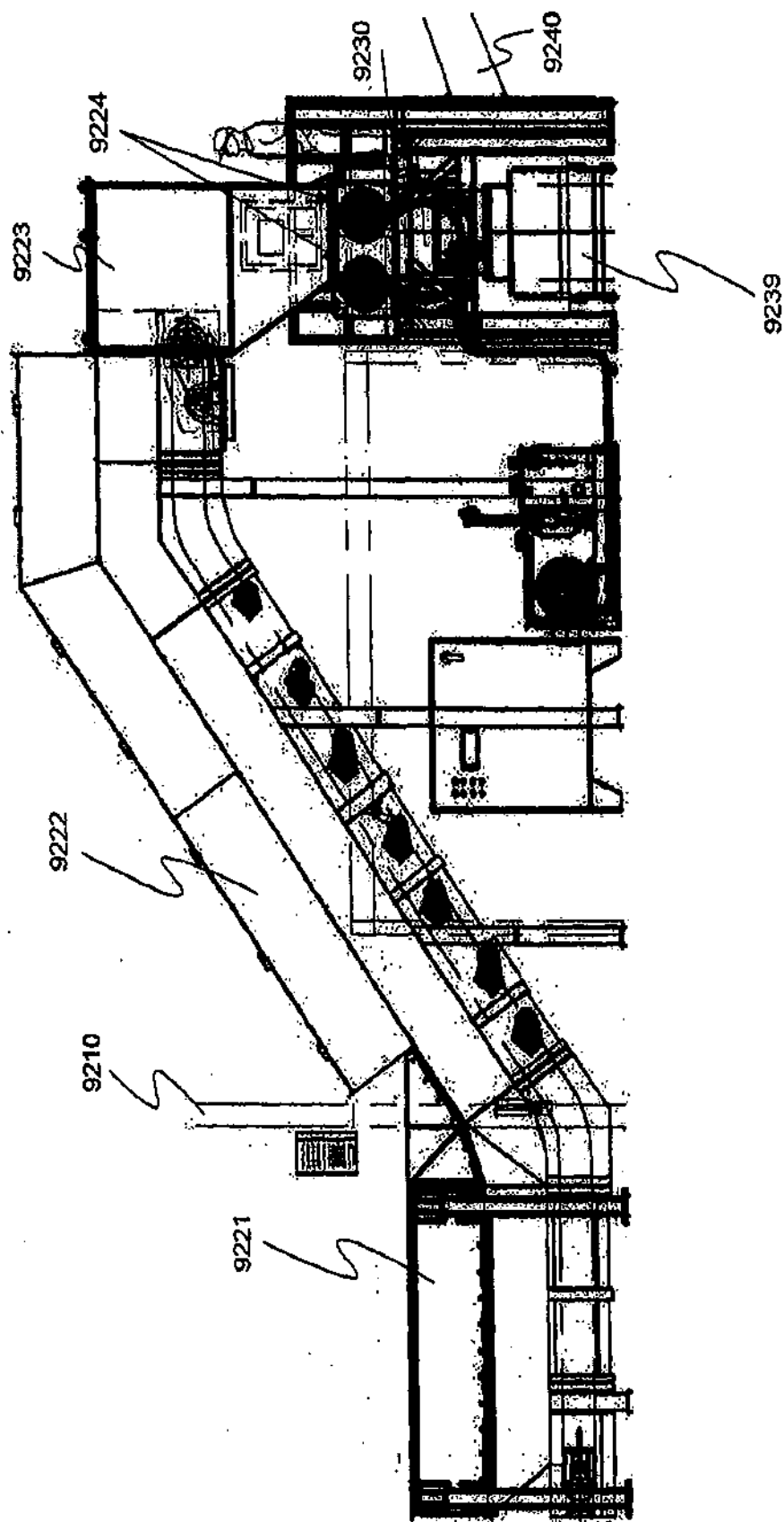


FIGURE 5A

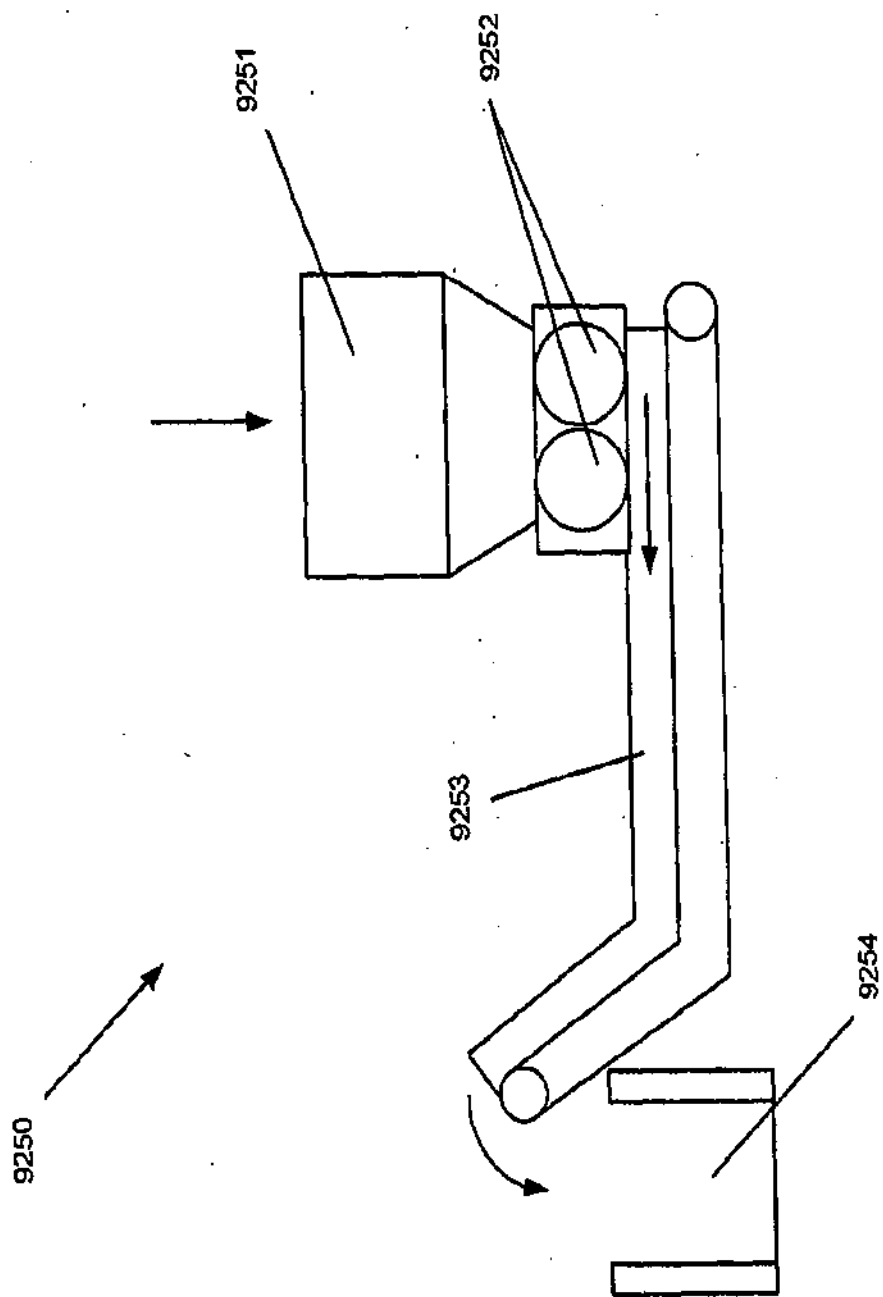


FIGURE 5B

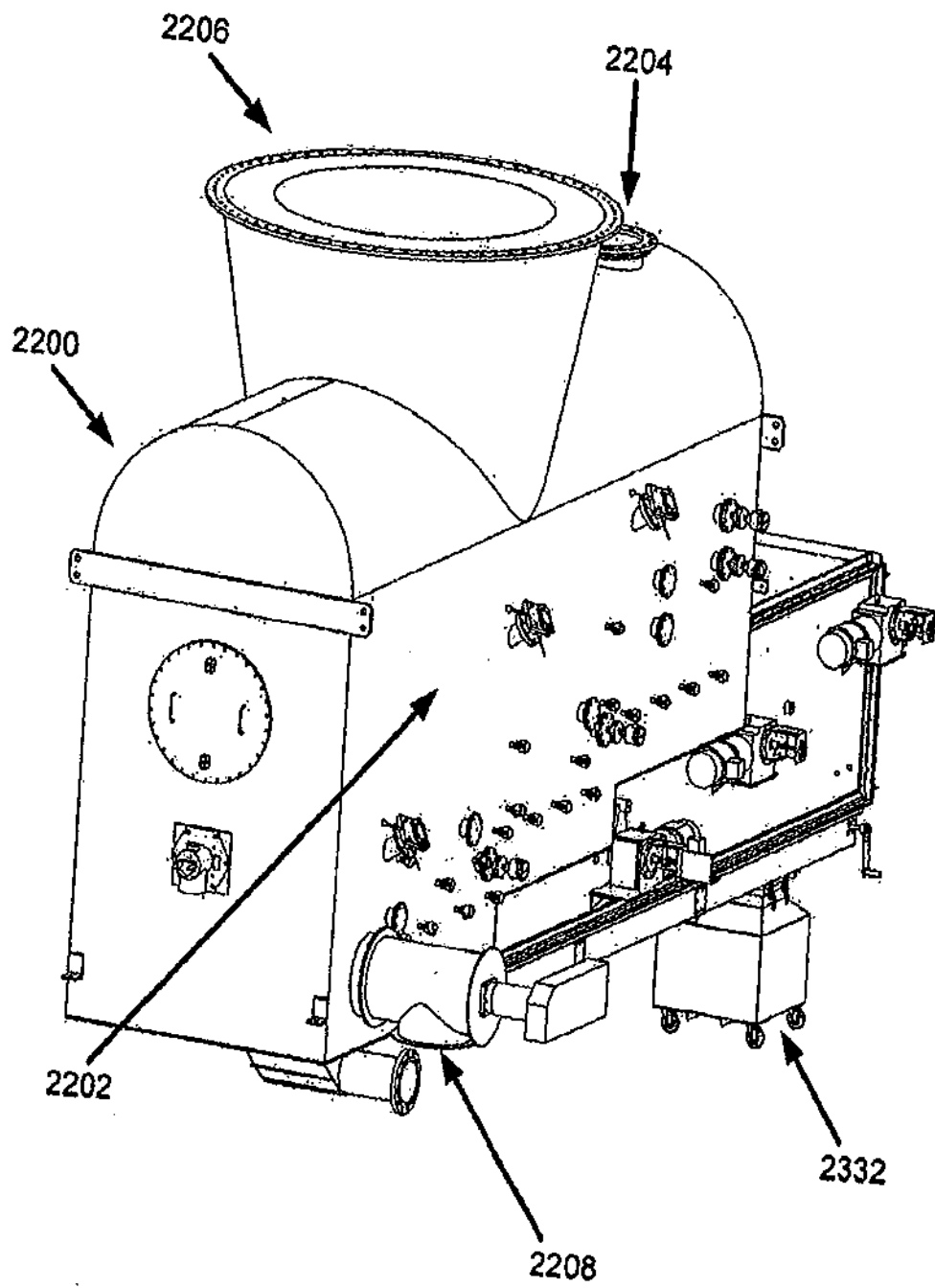


FIGURE 6

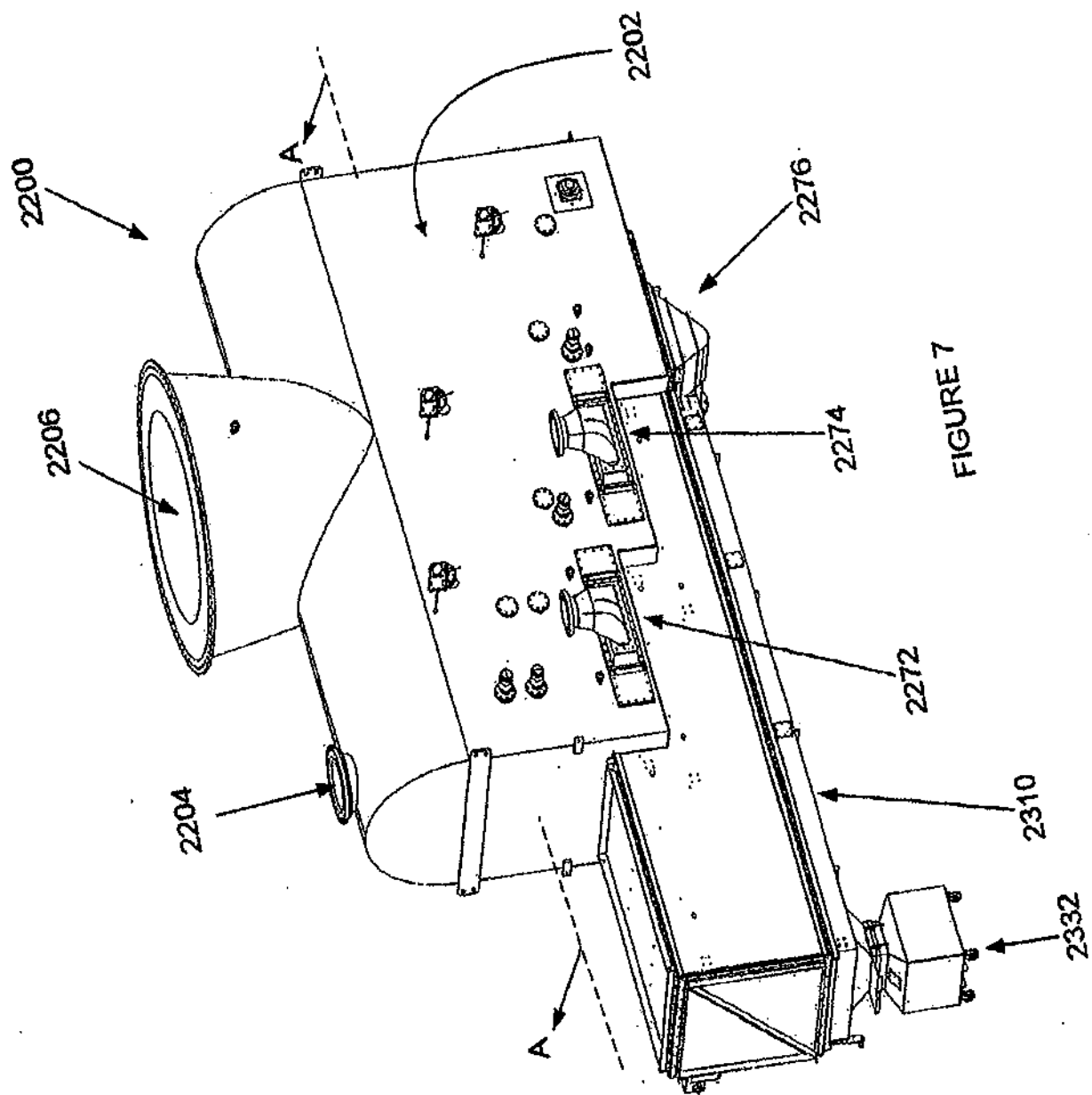


FIGURE 7

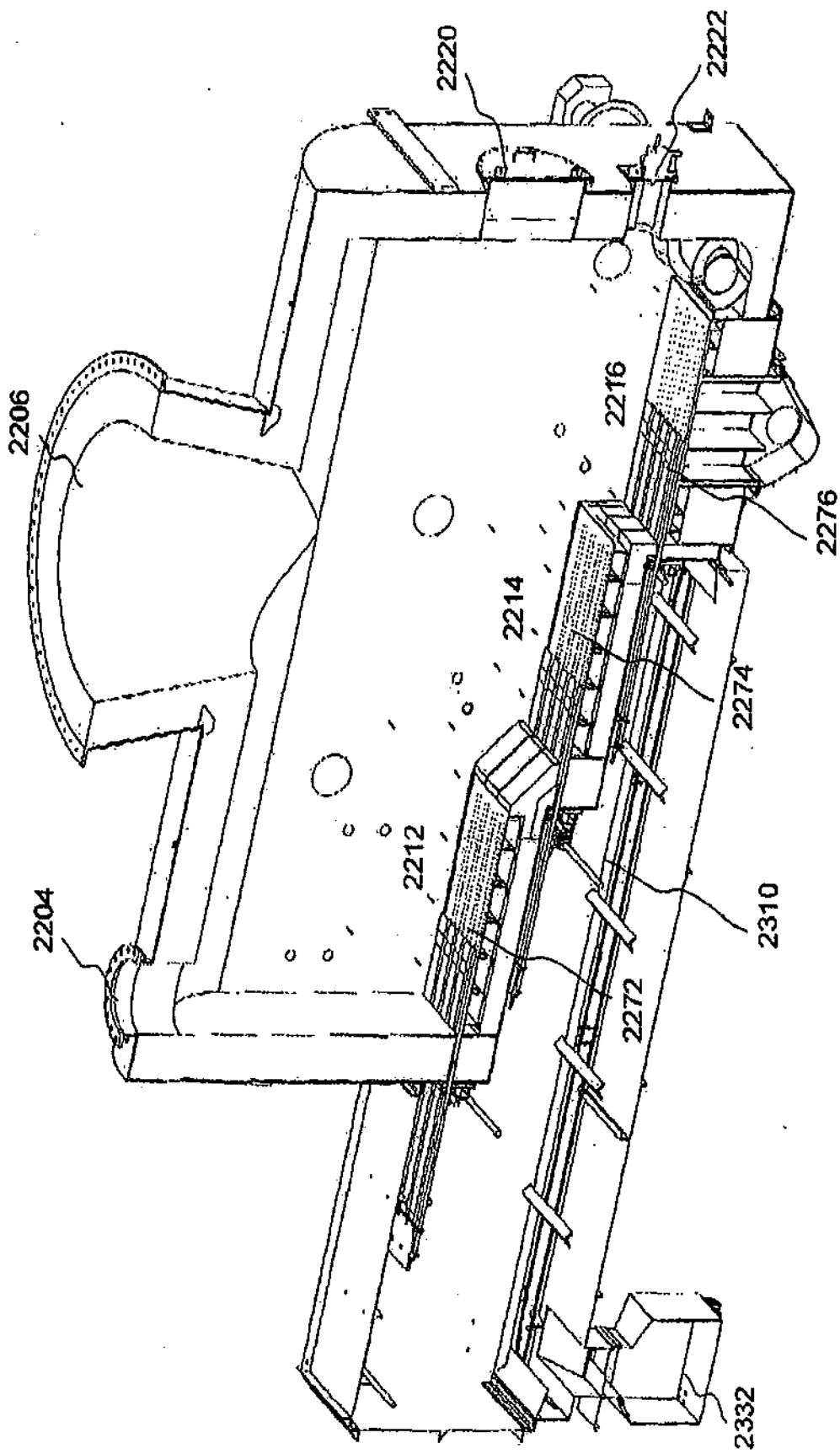


FIGURE 8

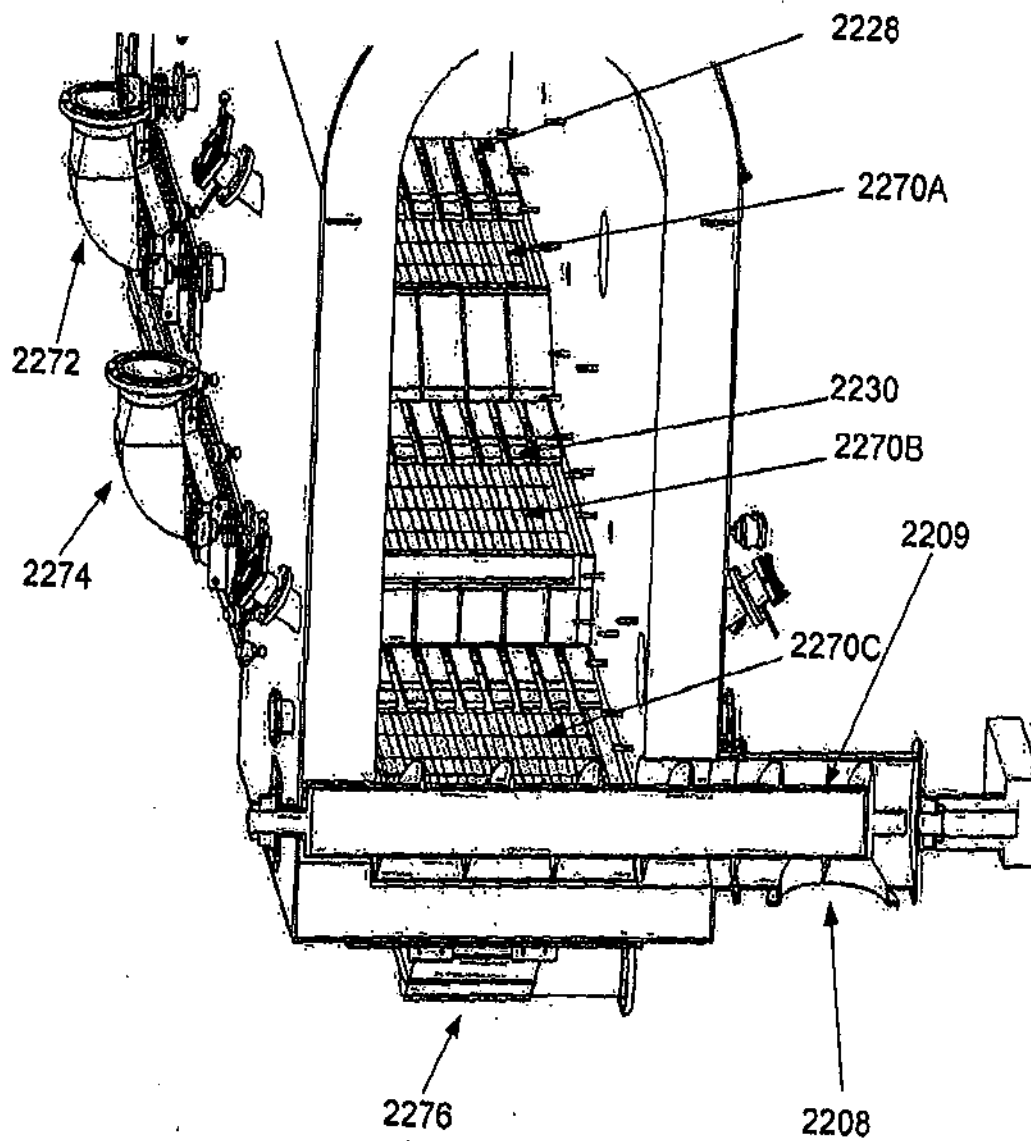


FIGURE 9

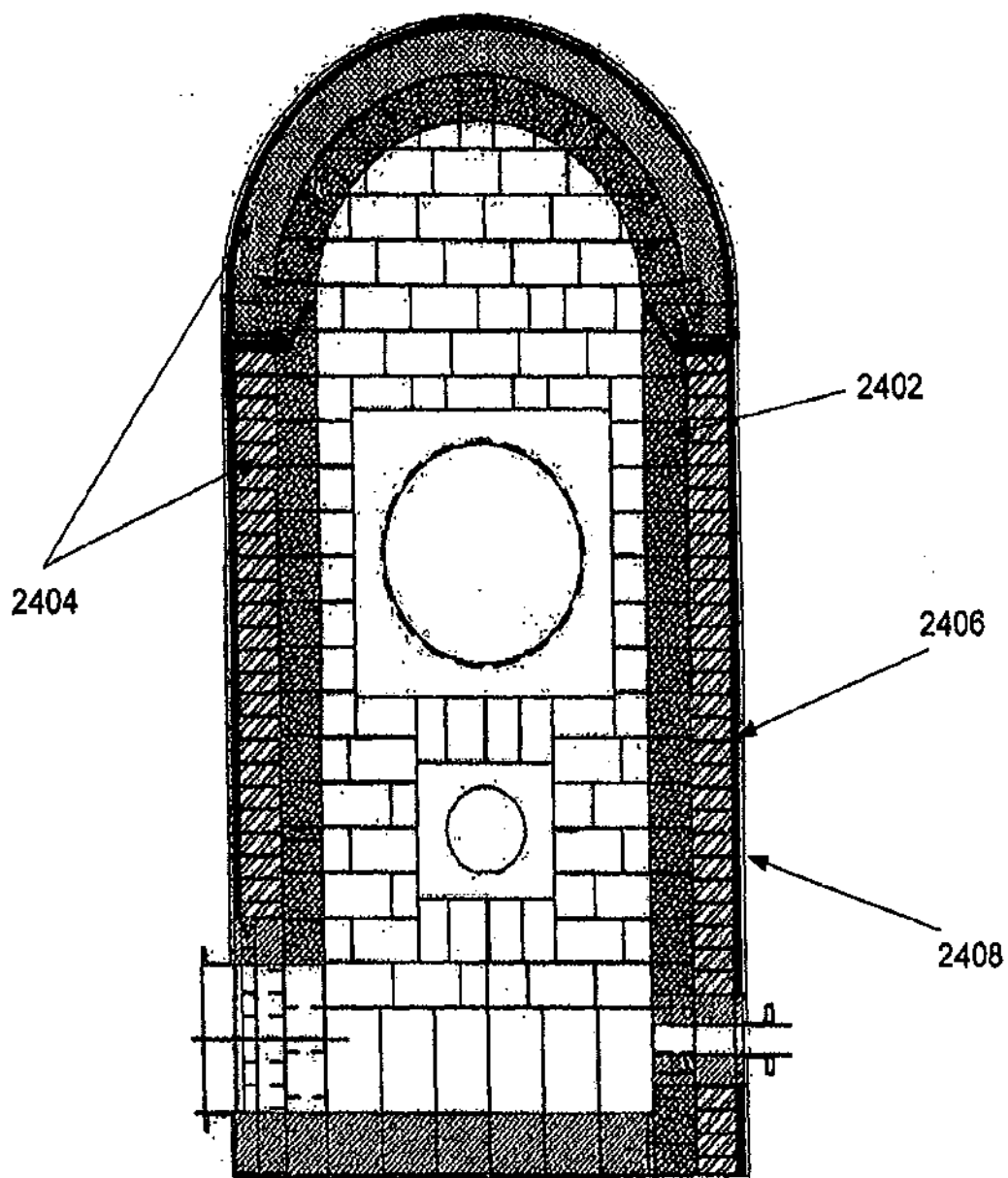


FIGURE 10

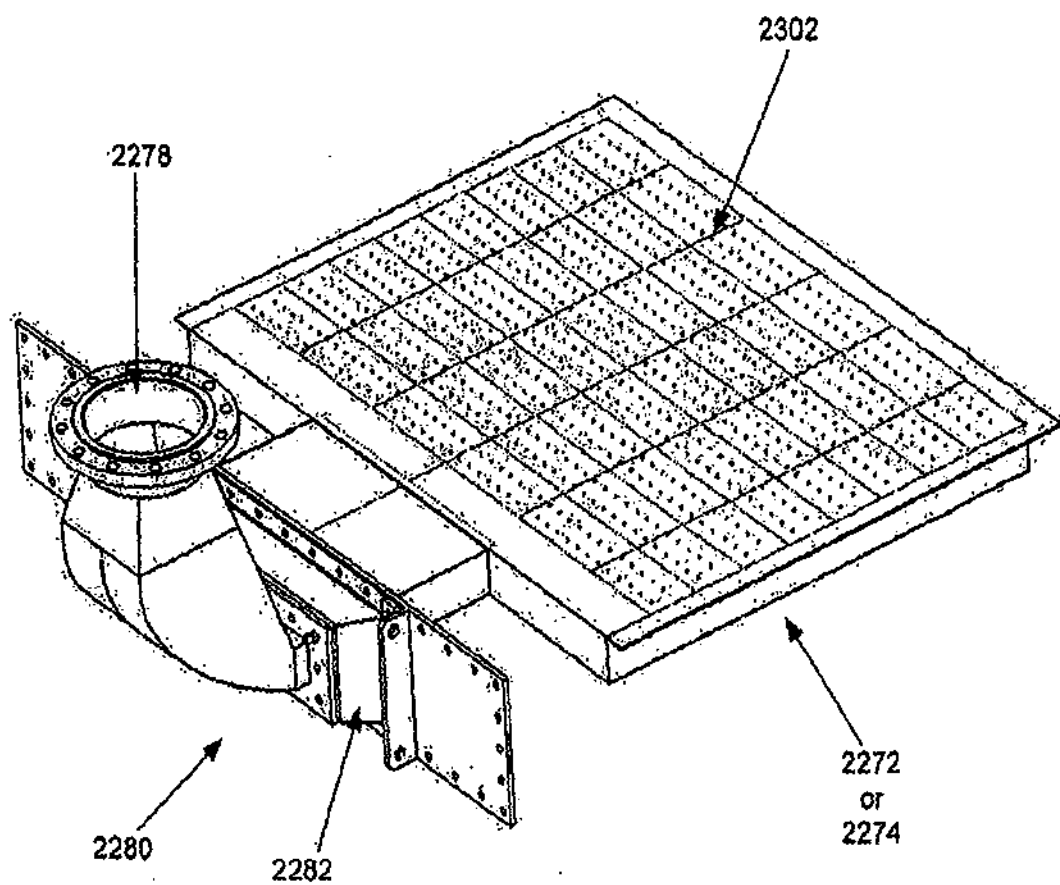


FIGURE 11

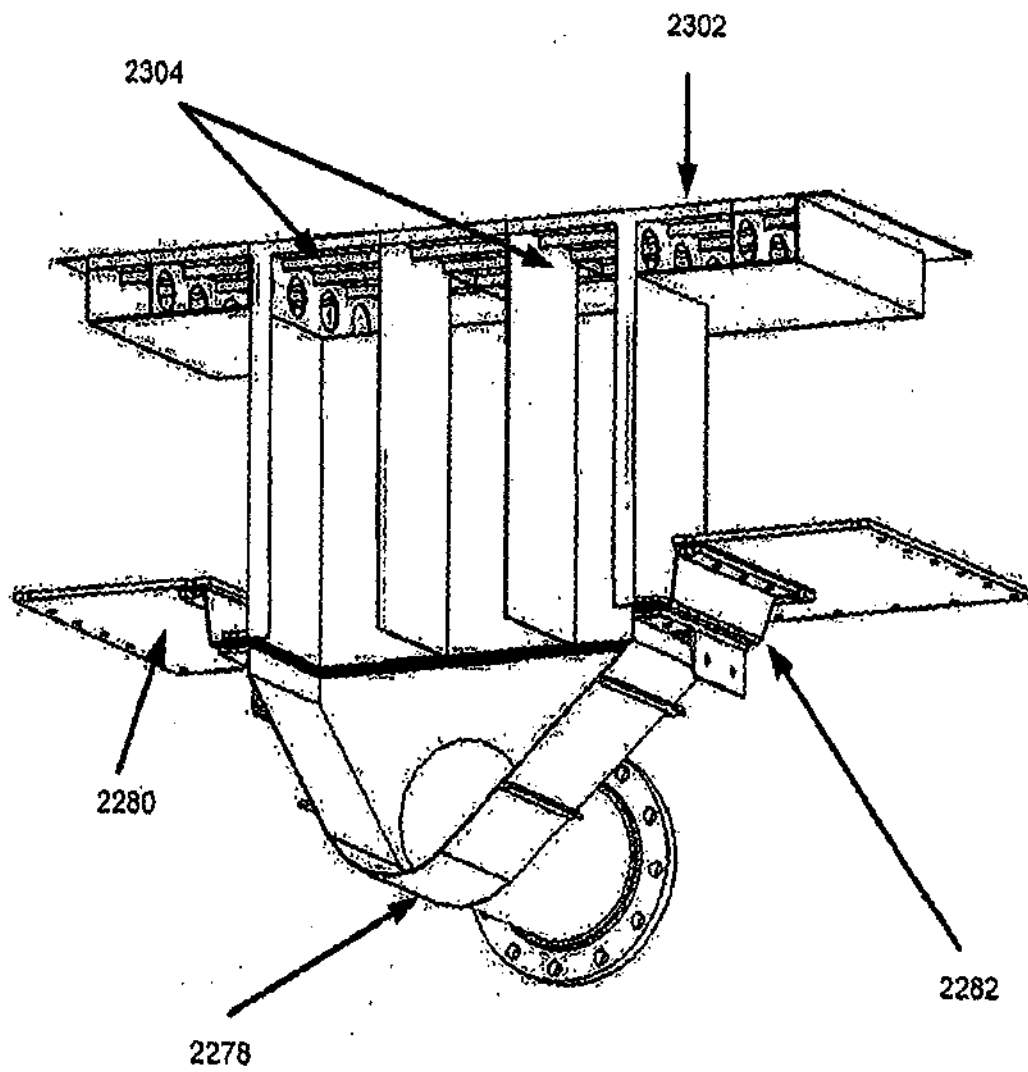


FIGURE 12

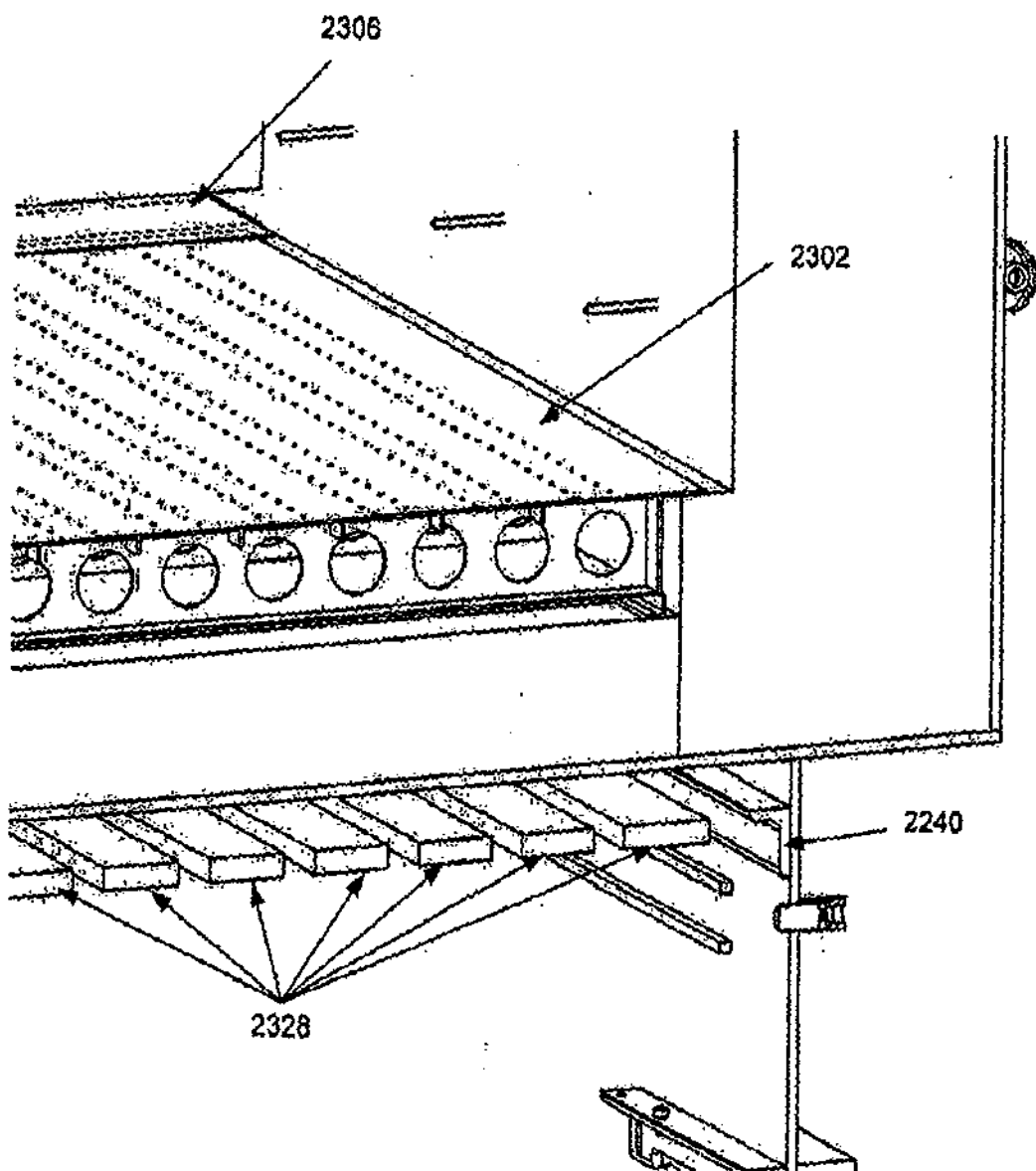


FIGURE 13

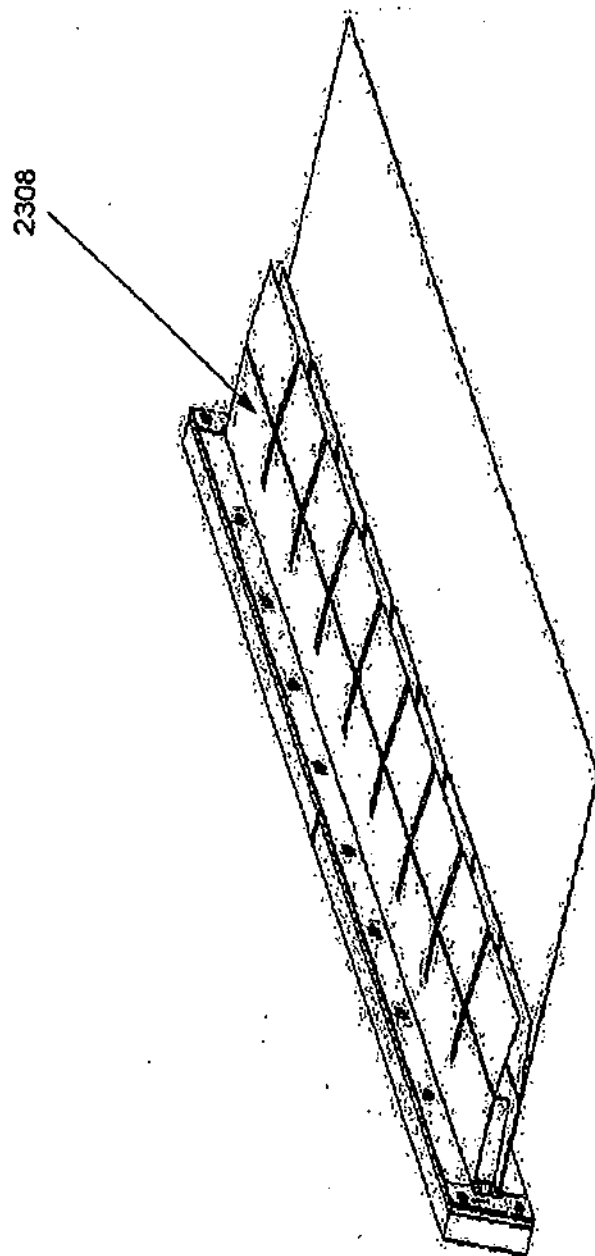


FIGURE 14

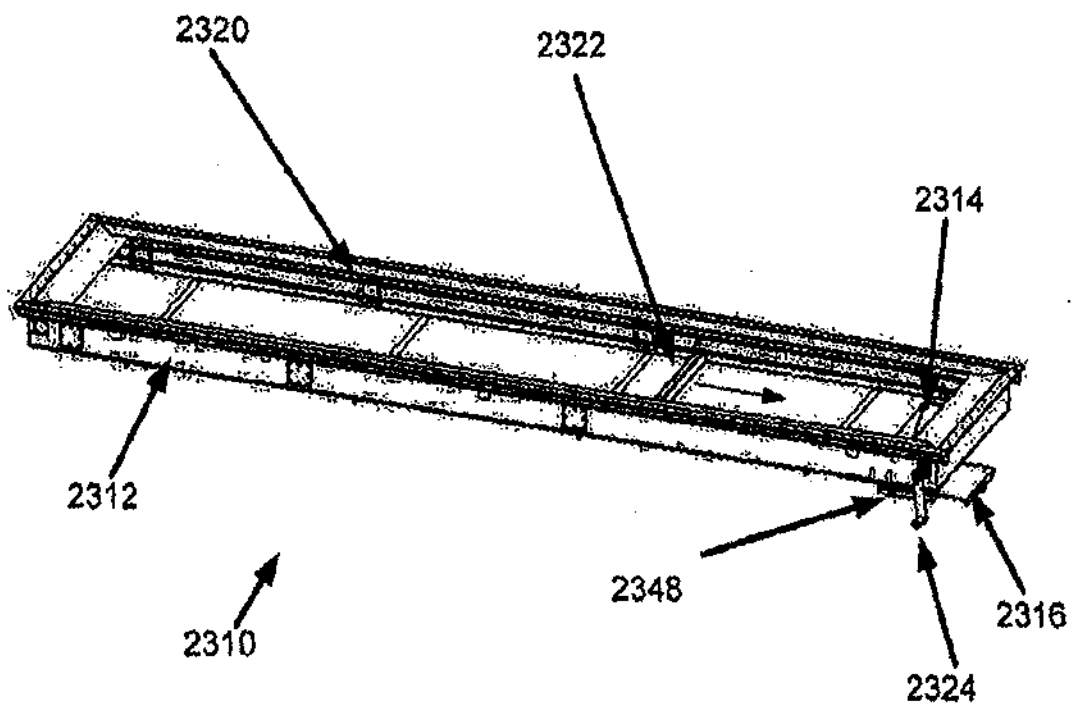


FIGURE 15

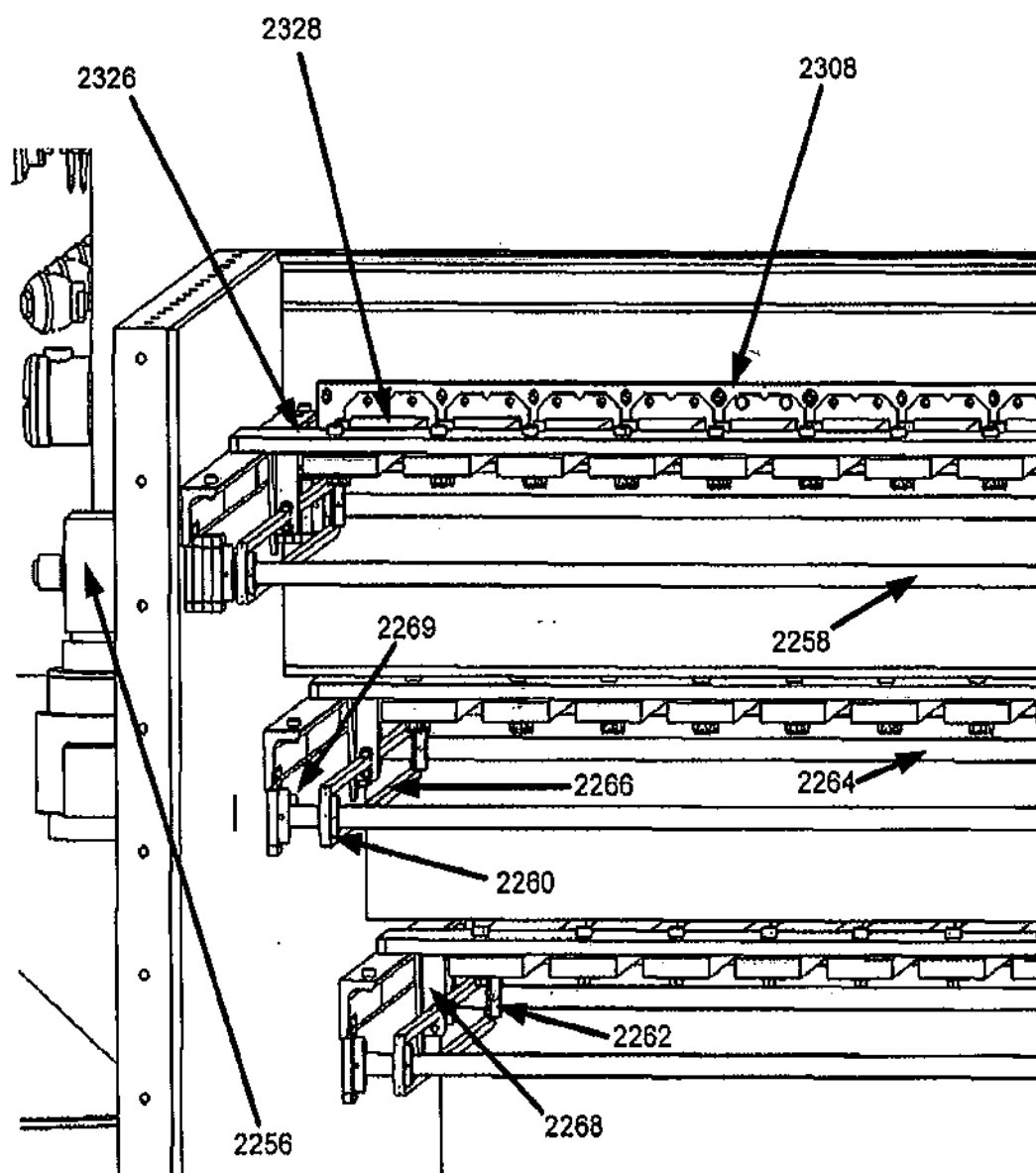


FIGURE 16

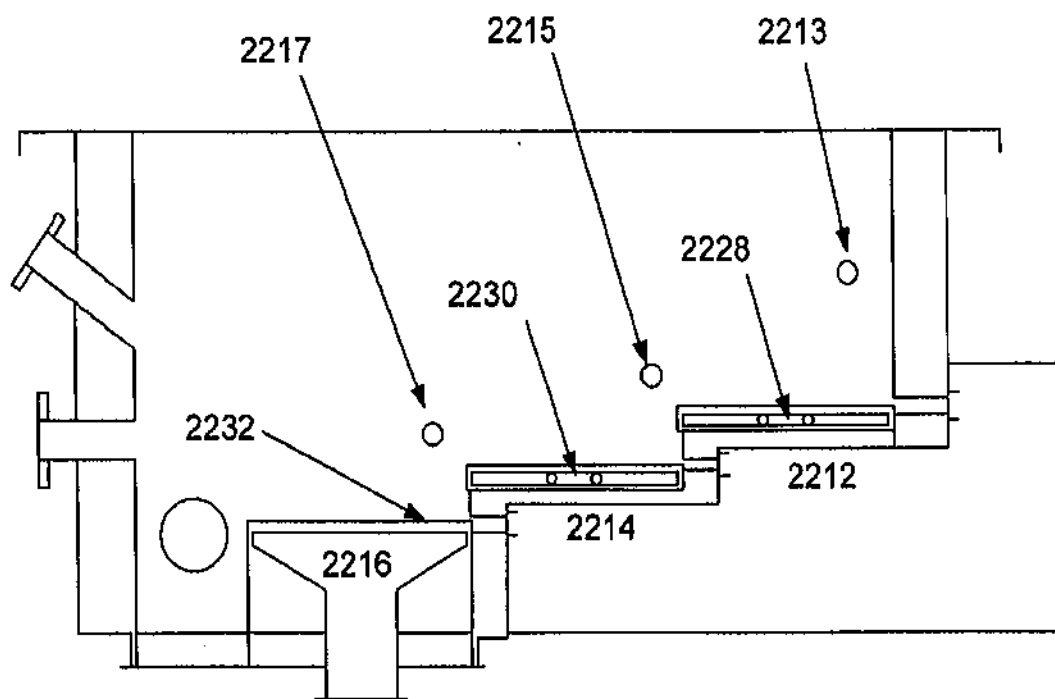


FIGURE 17

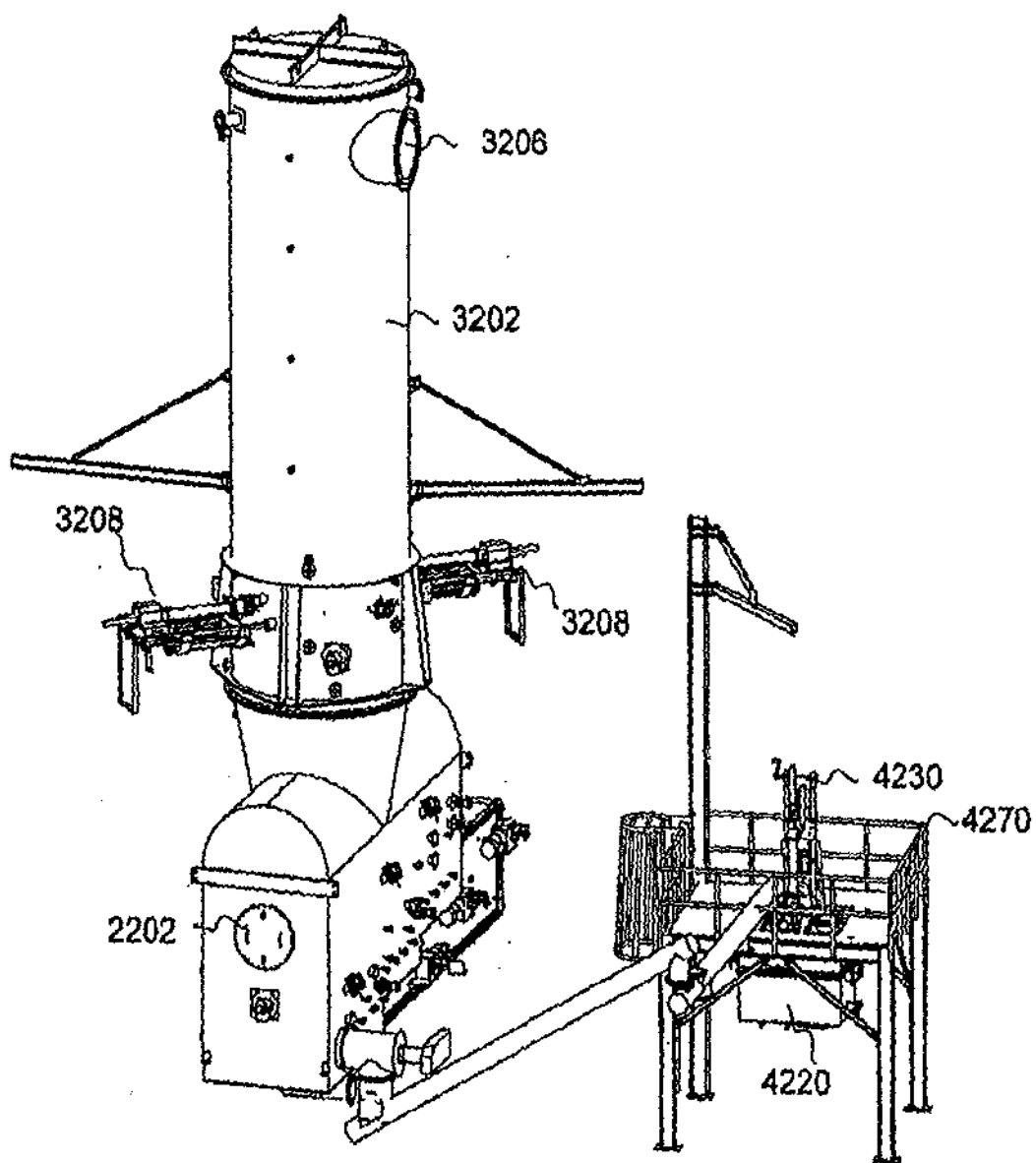


FIGURE 18

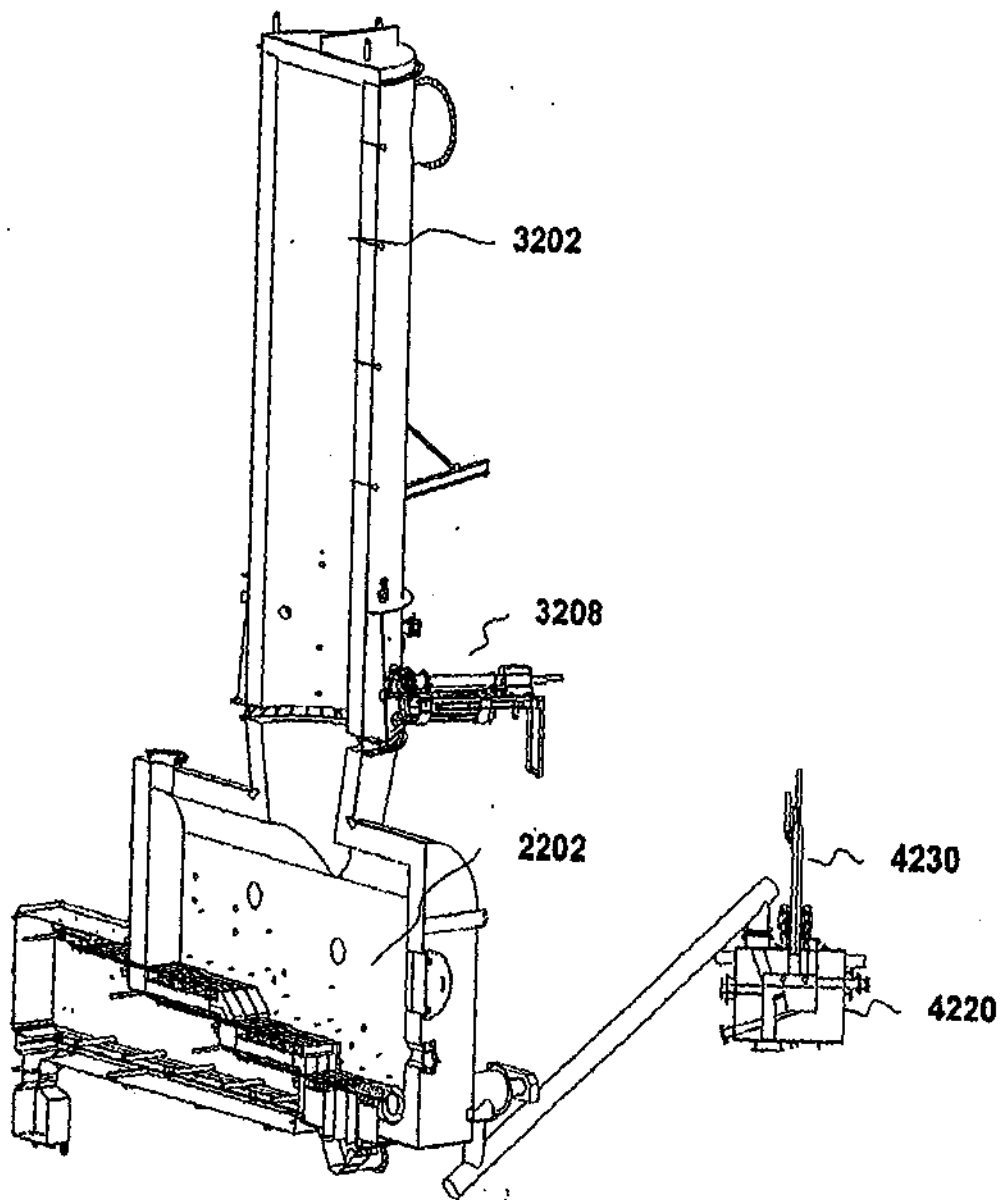


FIGURE 19

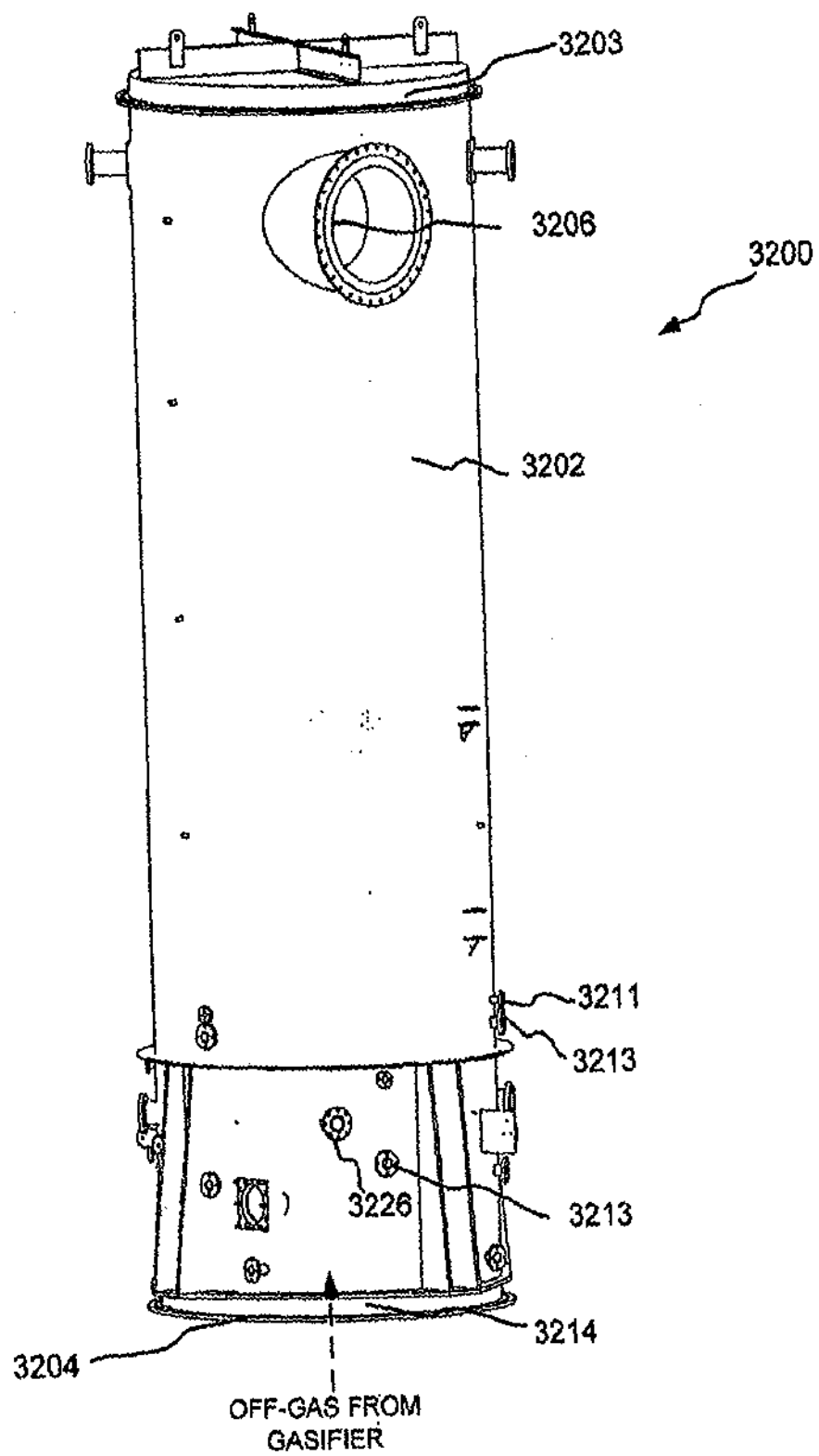


FIGURE 20

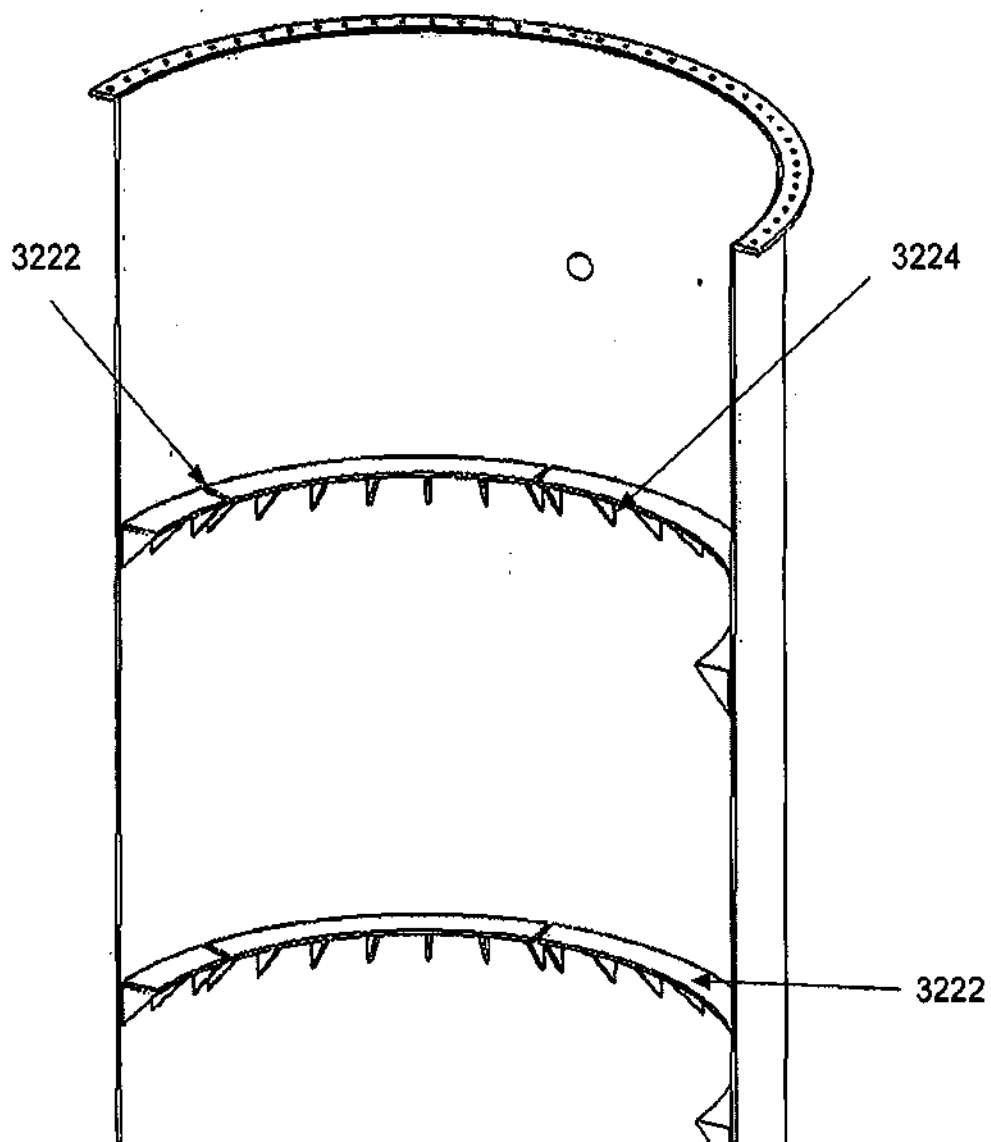


FIGURE 21

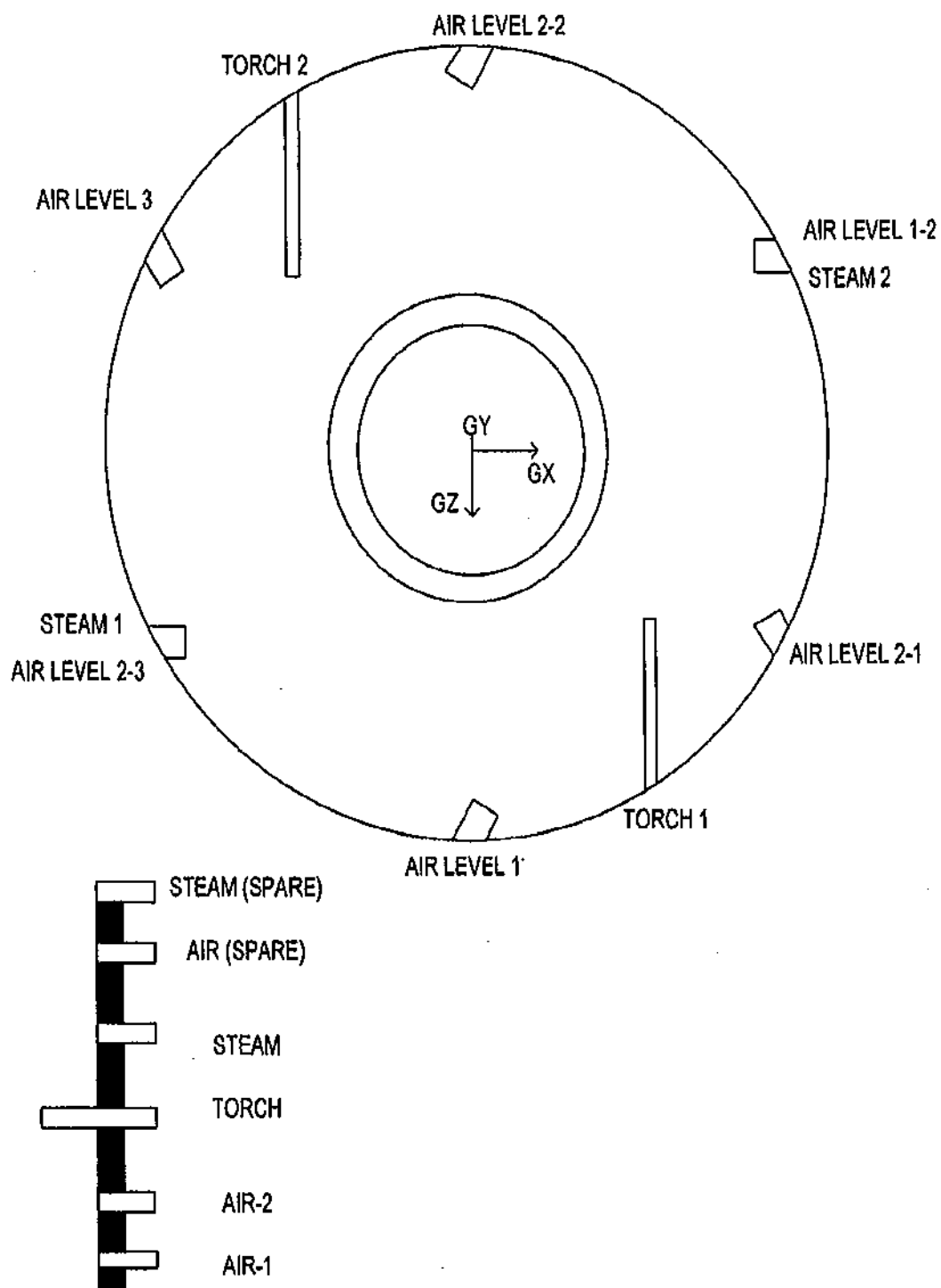


FIGURE 22

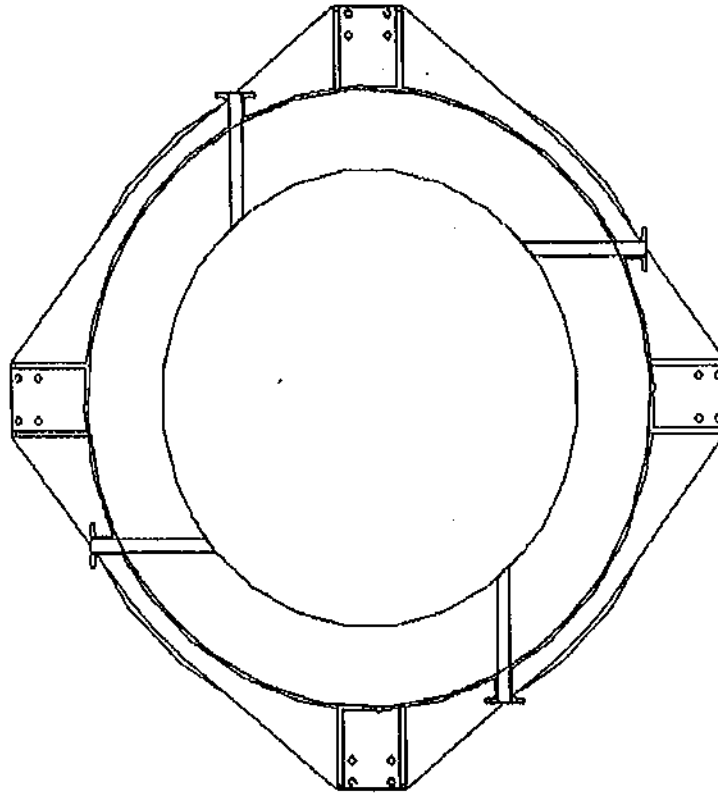


FIGURE 23

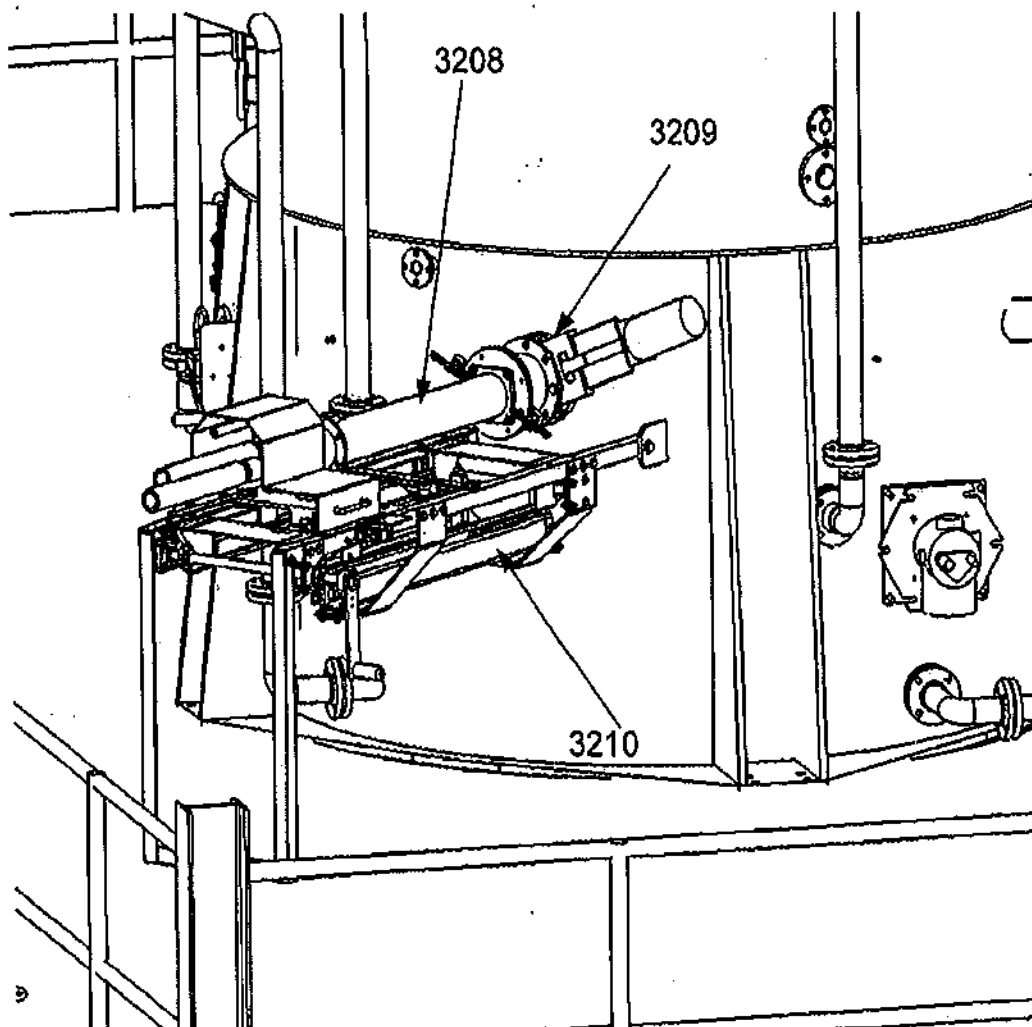


FIGURE 24

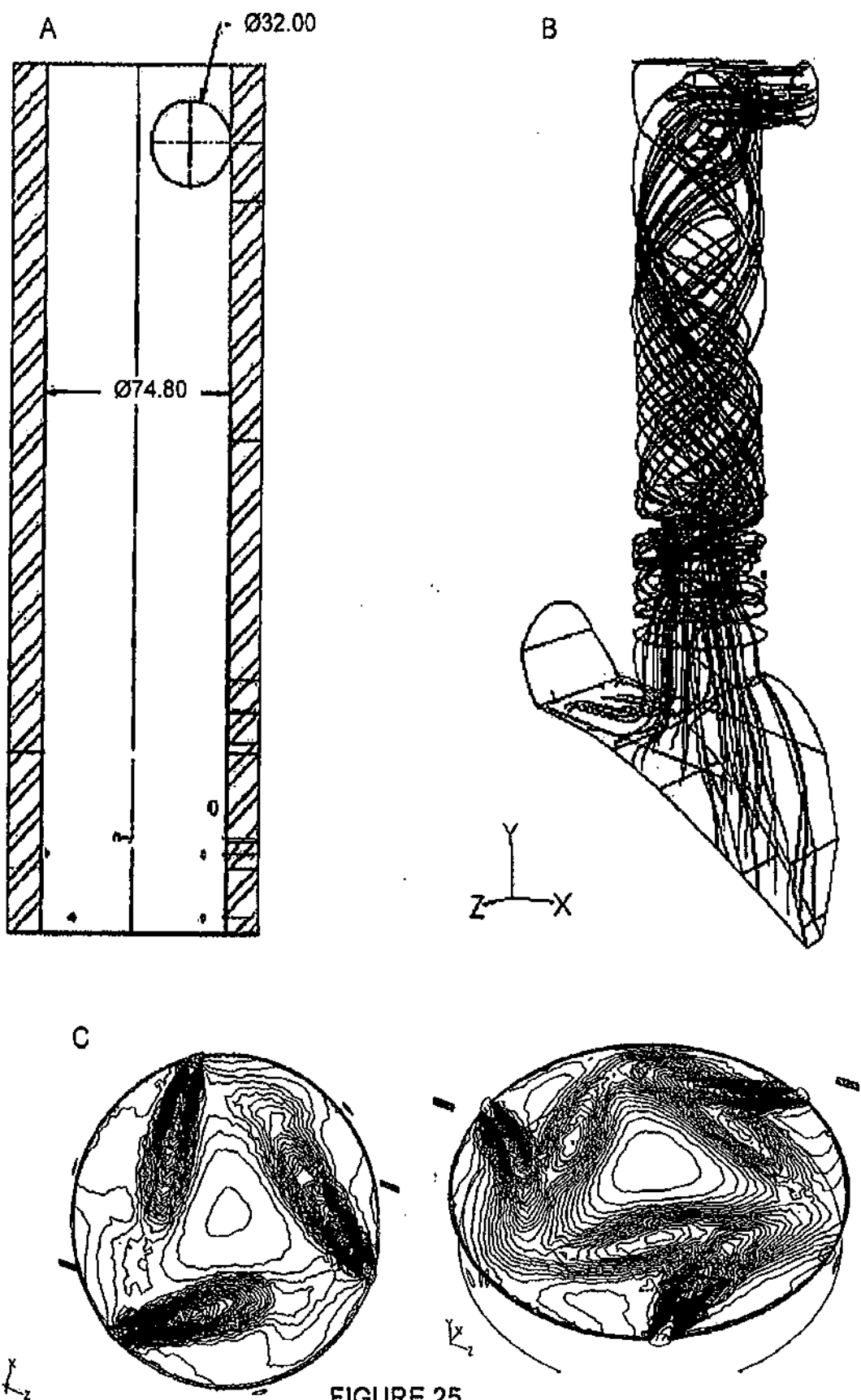


FIGURE 25

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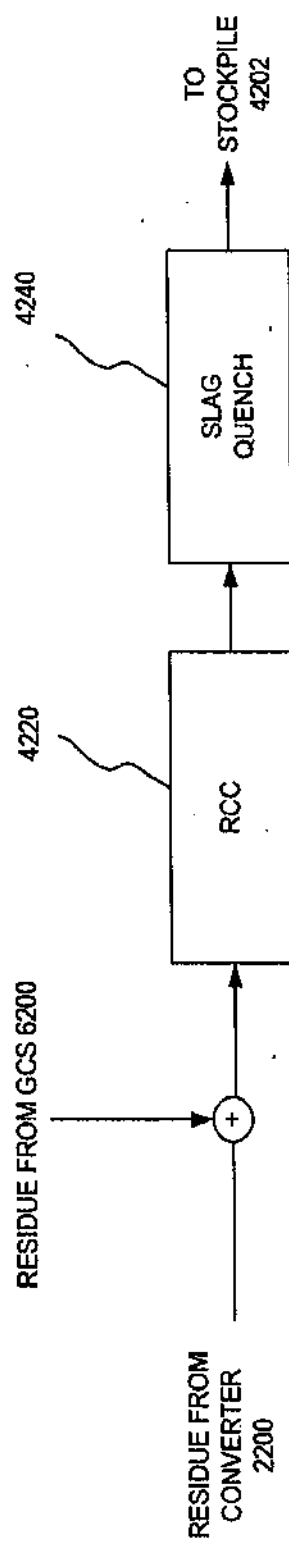


FIGURE 26

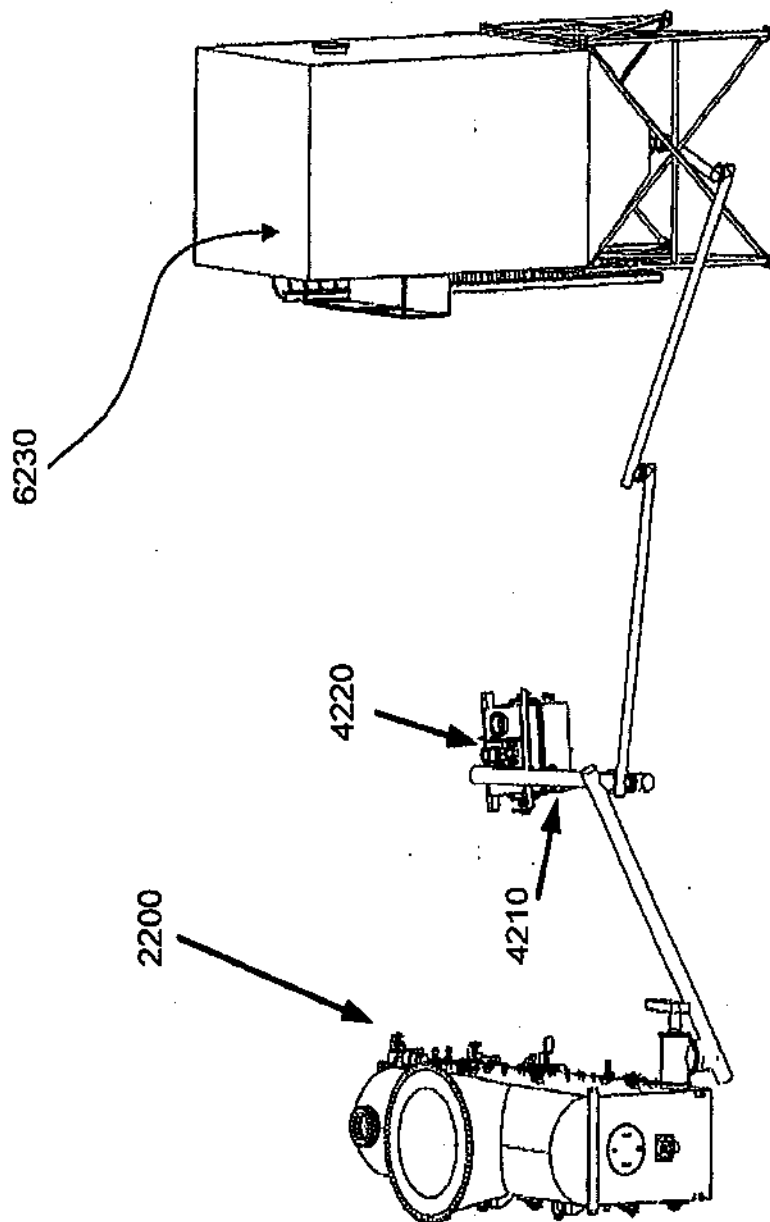


FIGURE 27

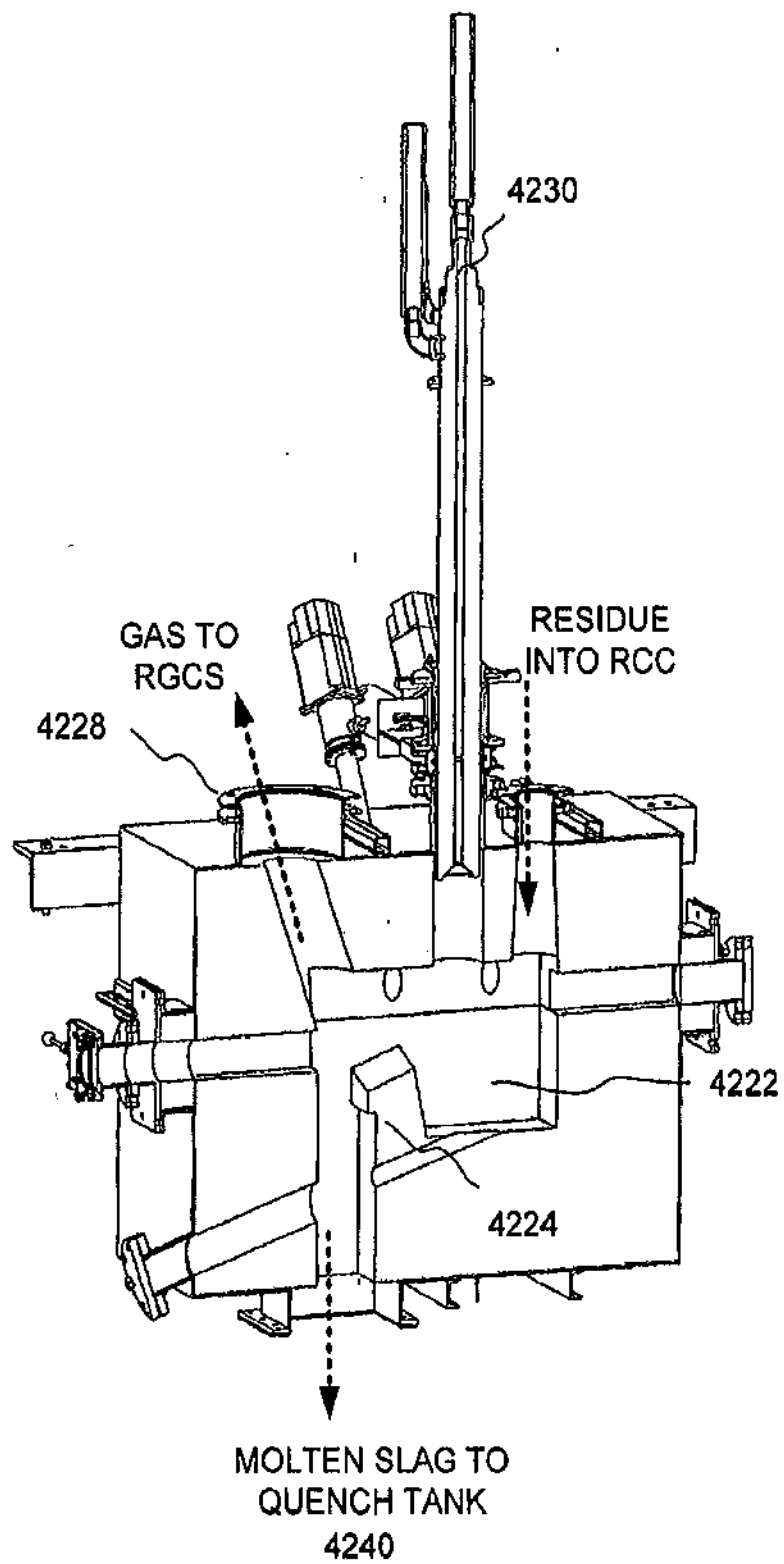


FIGURE 28

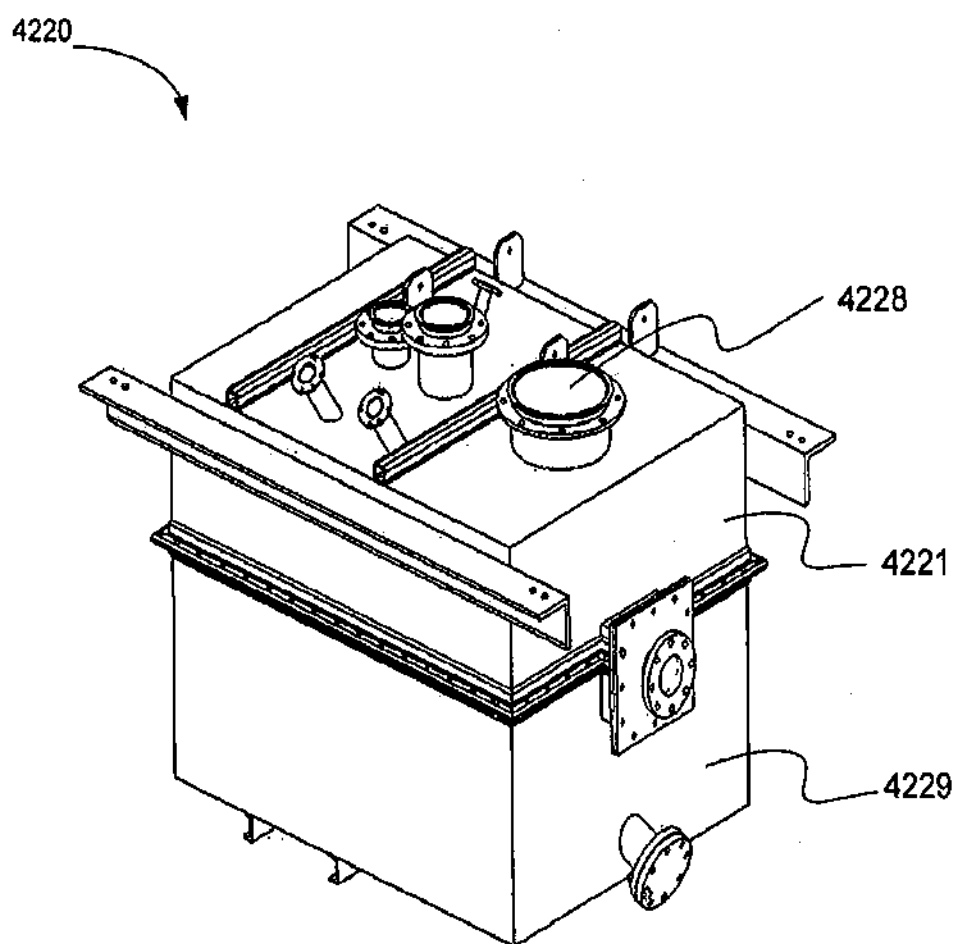


FIGURE 29

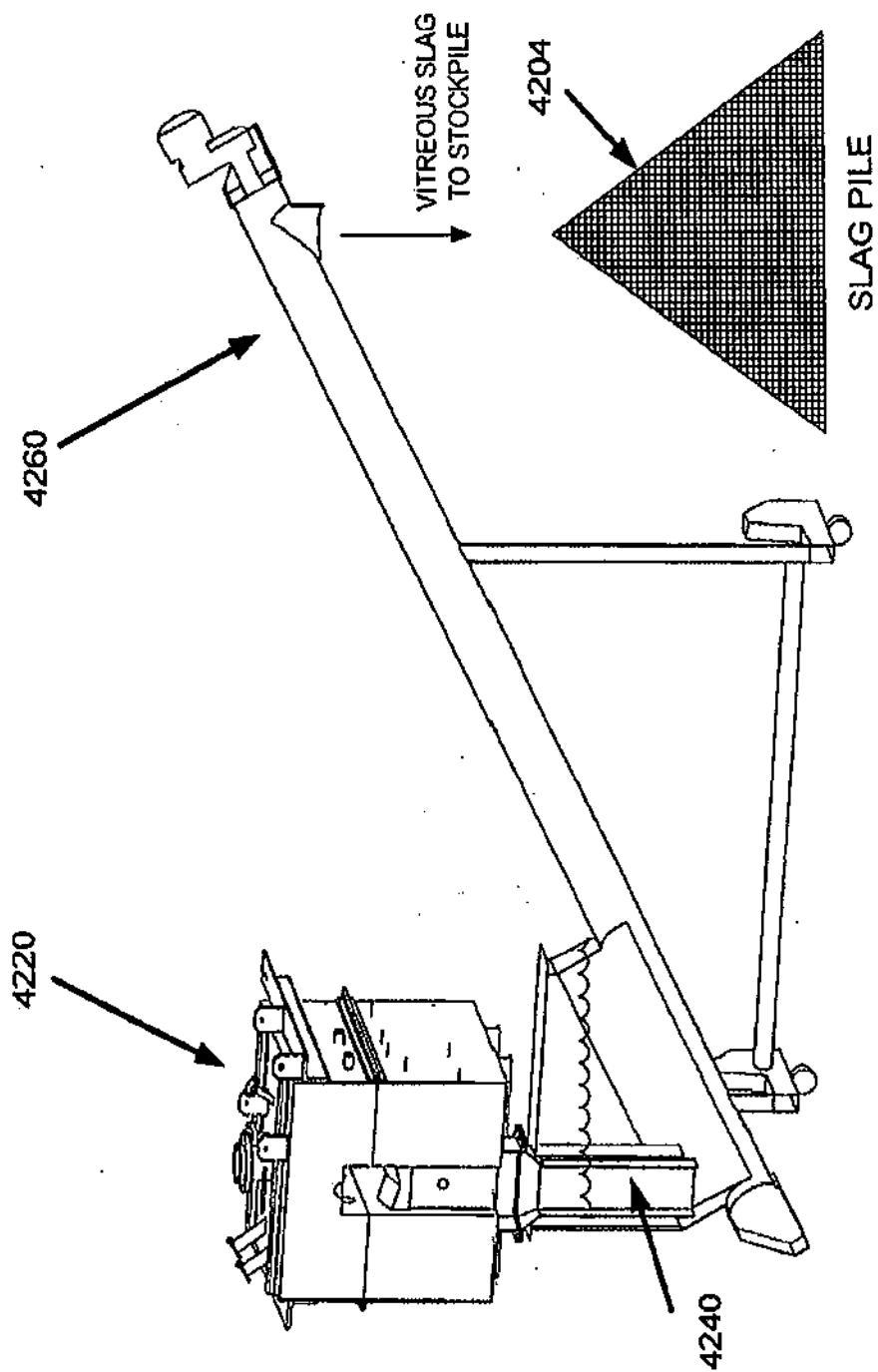


FIGURE 30

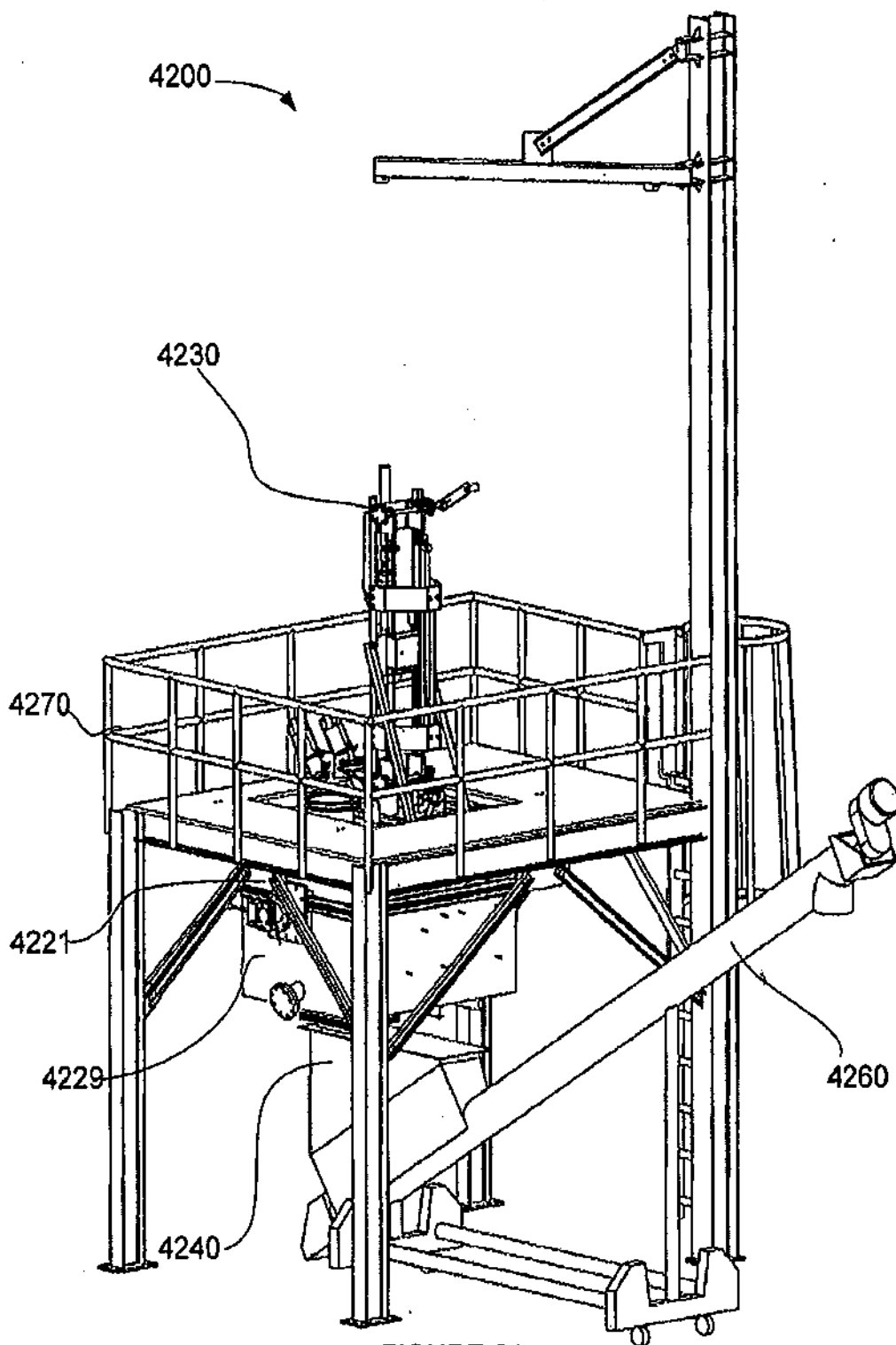


FIGURE 31

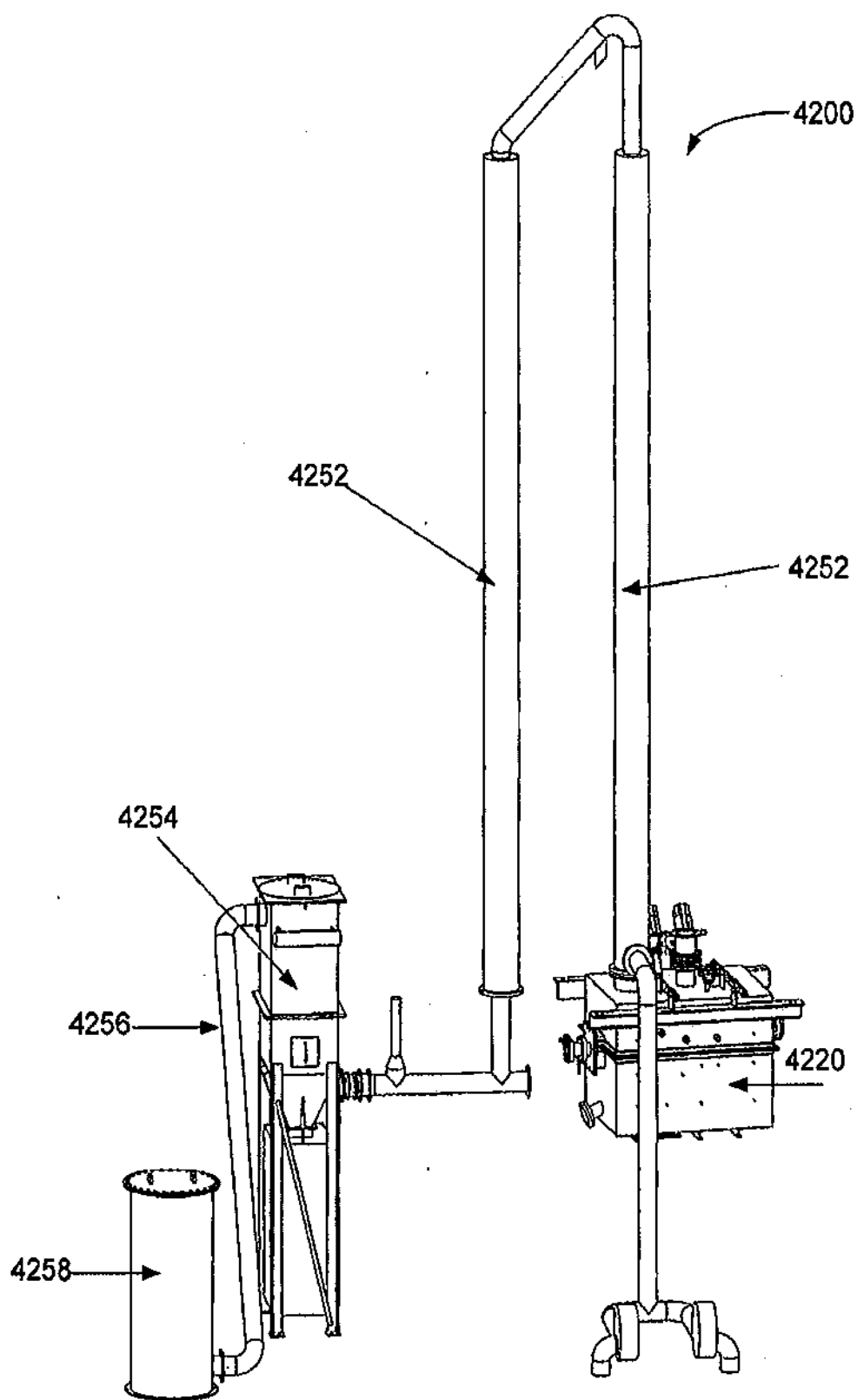


FIGURE 32

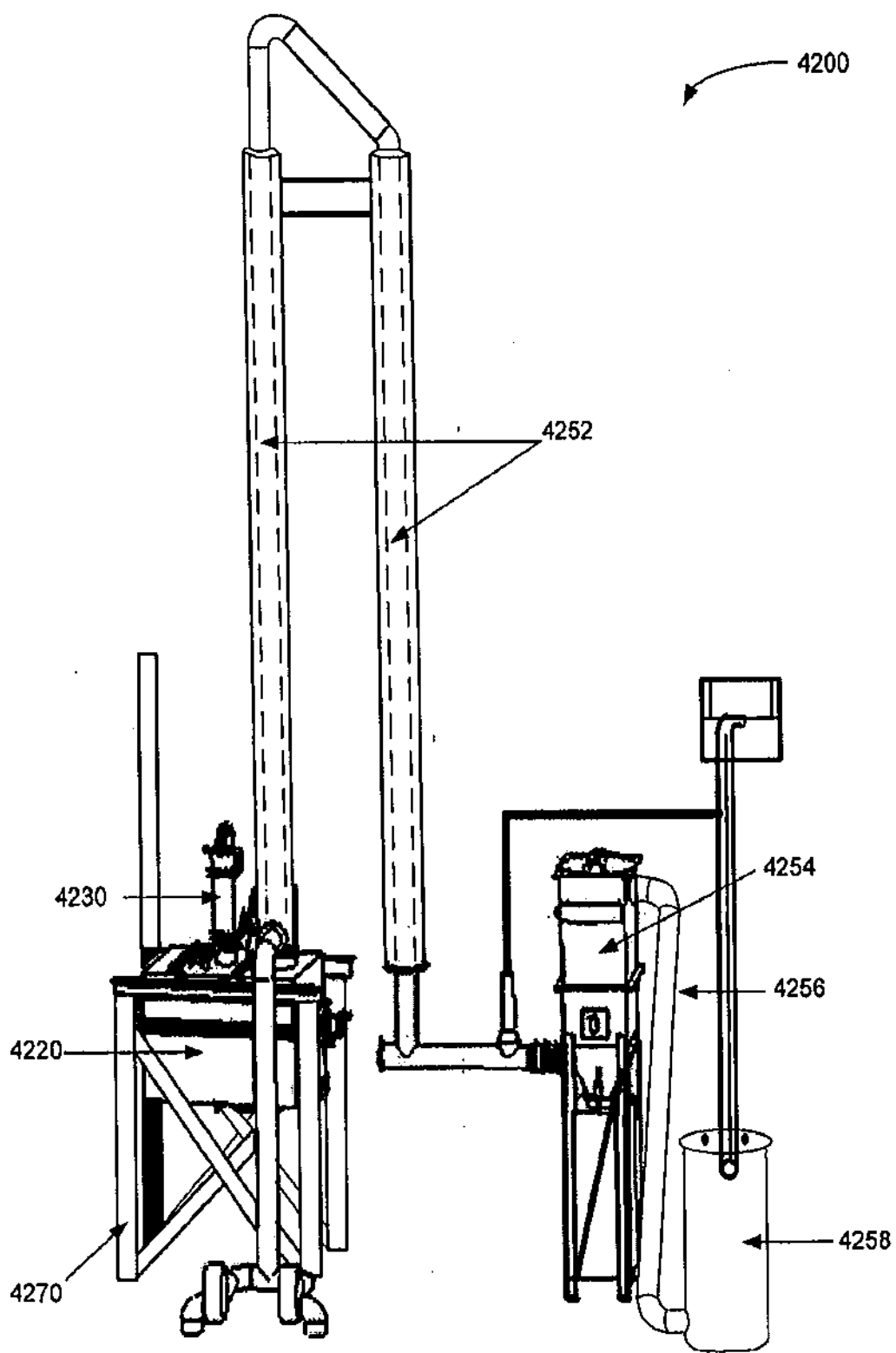


FIGURE 32A

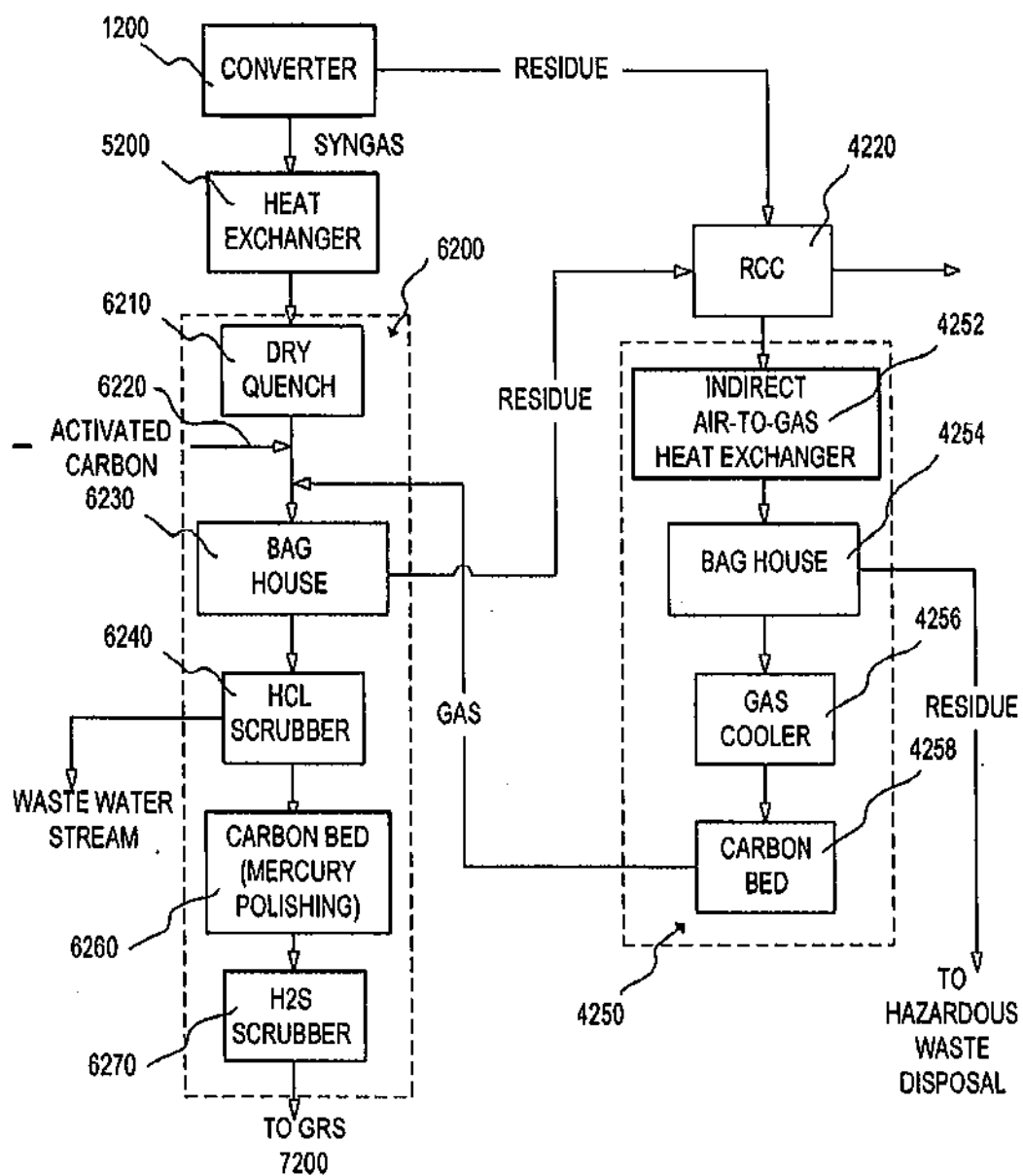


FIGURE 33

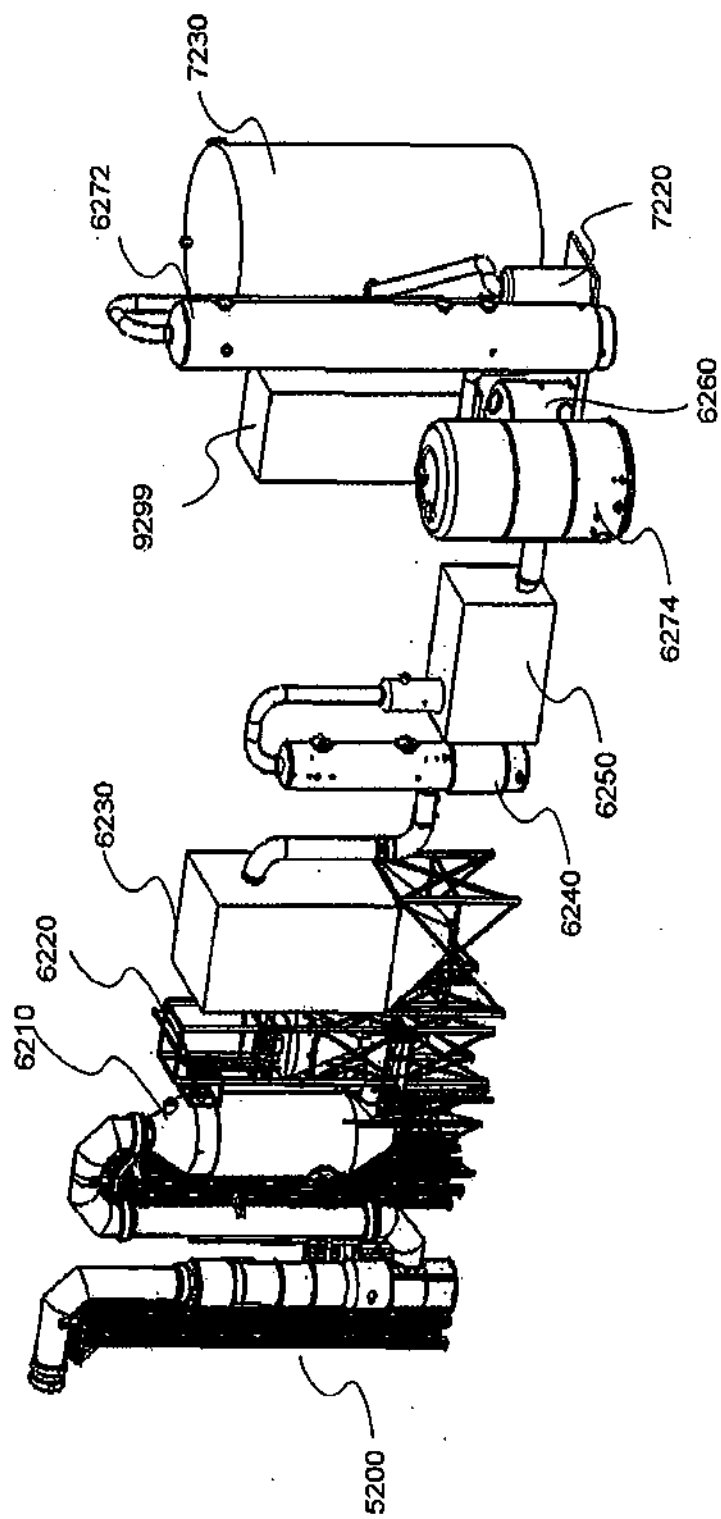


FIGURE 34

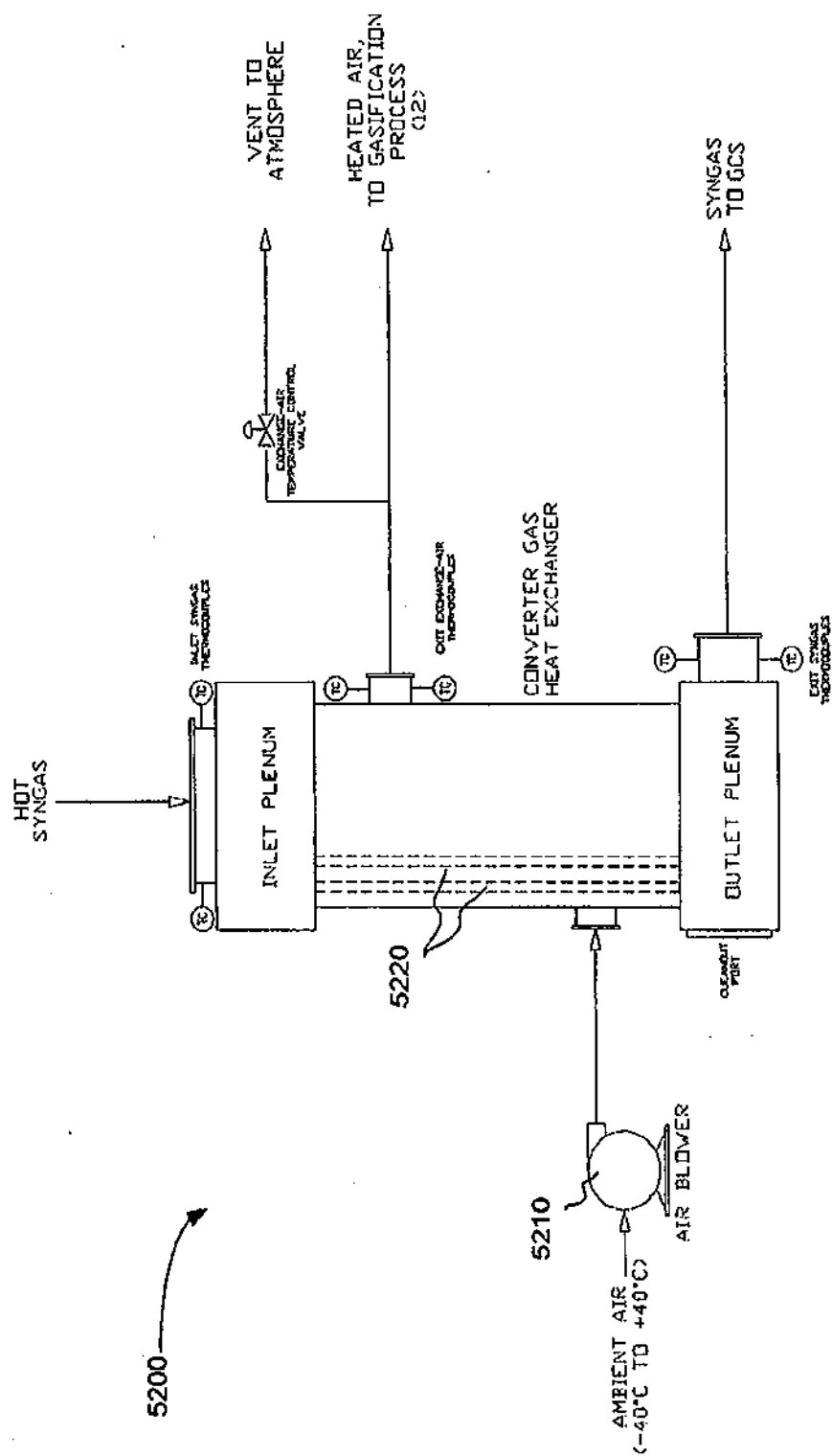


FIGURE 35

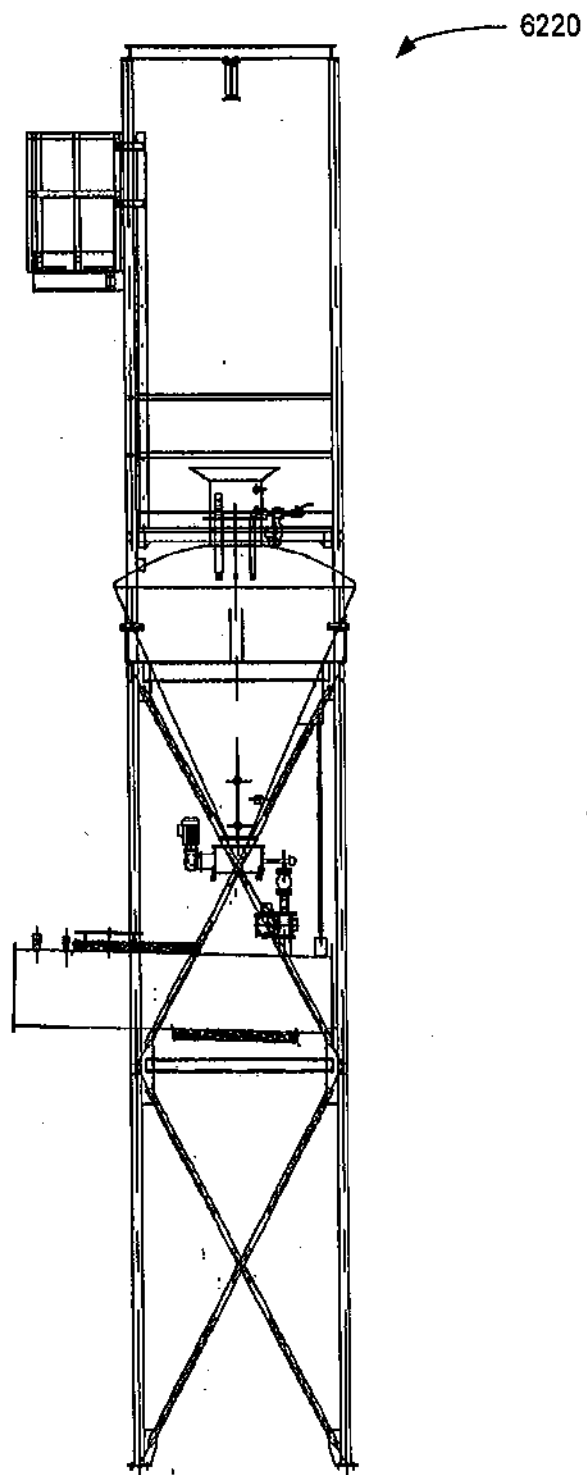


FIGURE 36

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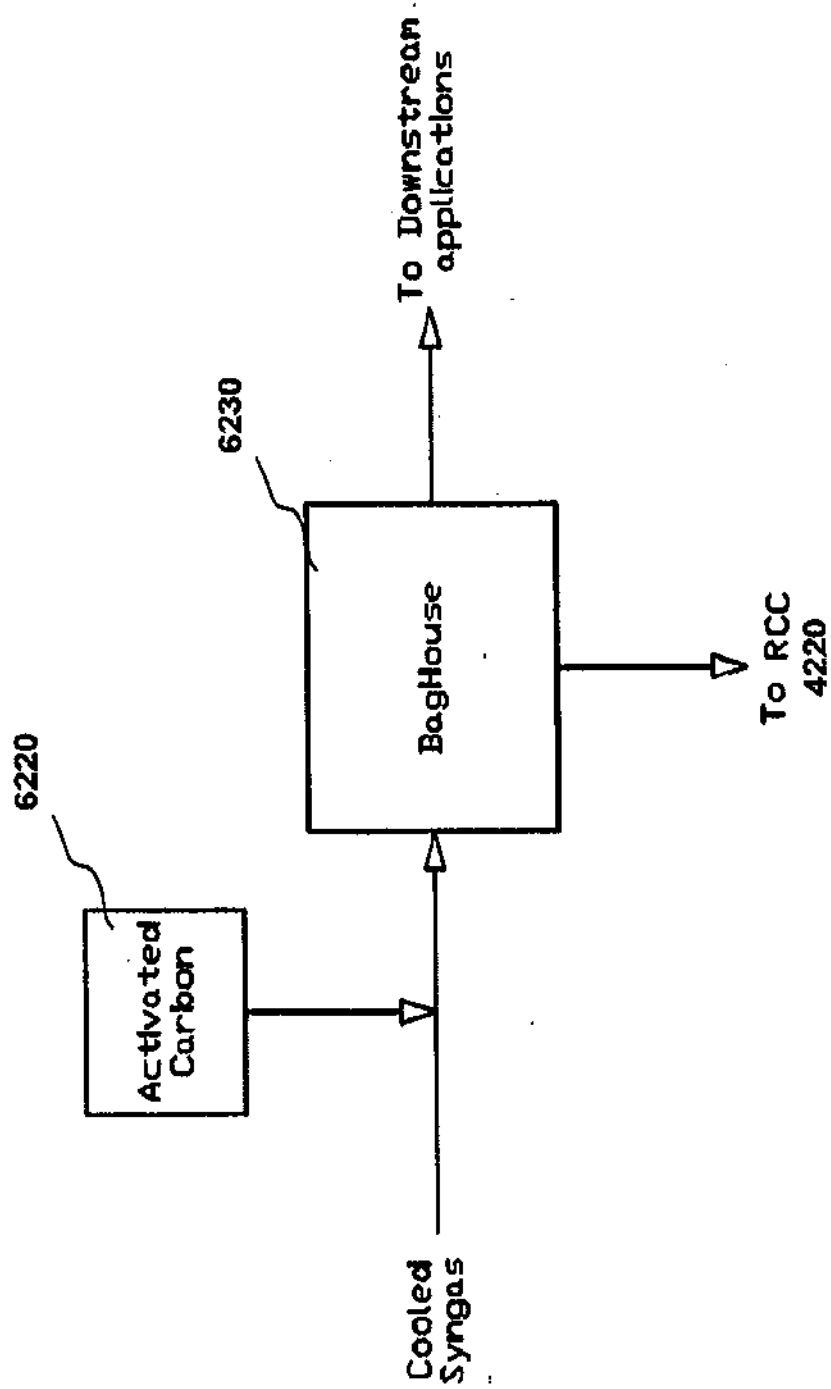


FIGURE 37

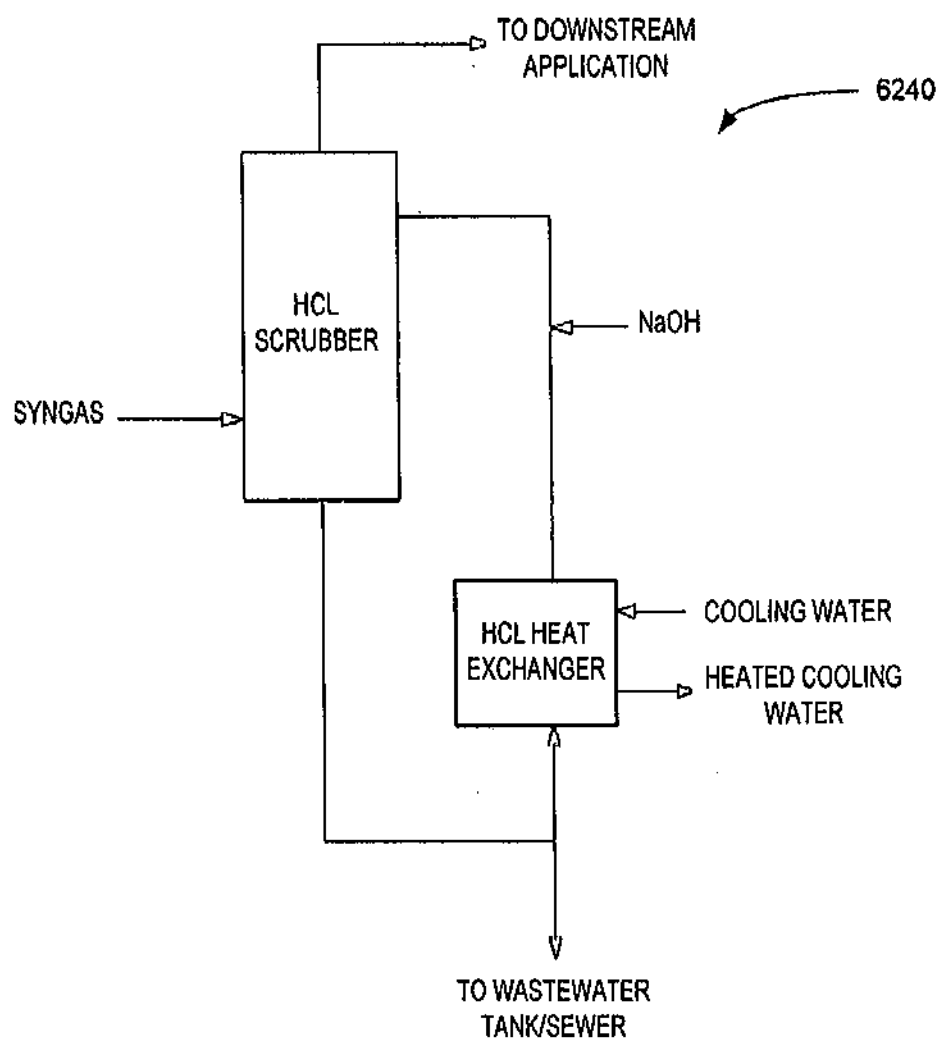


FIGURE 38

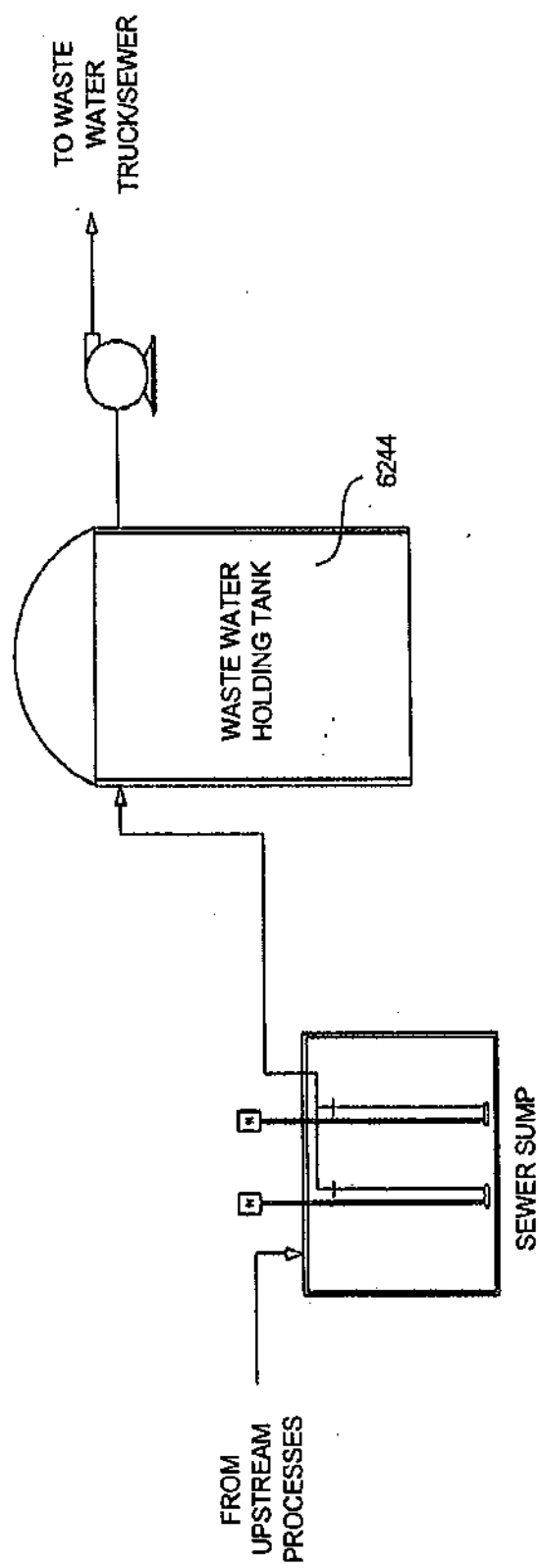


FIGURE 39

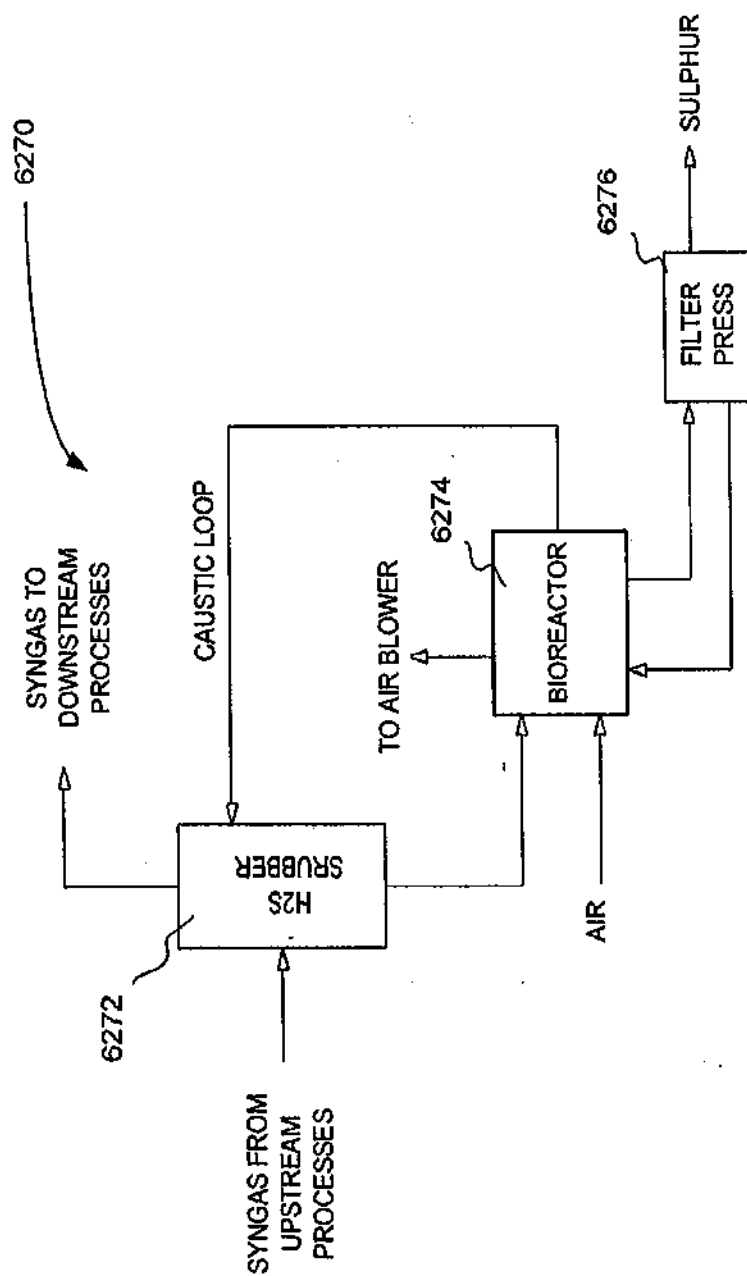


FIGURE 40

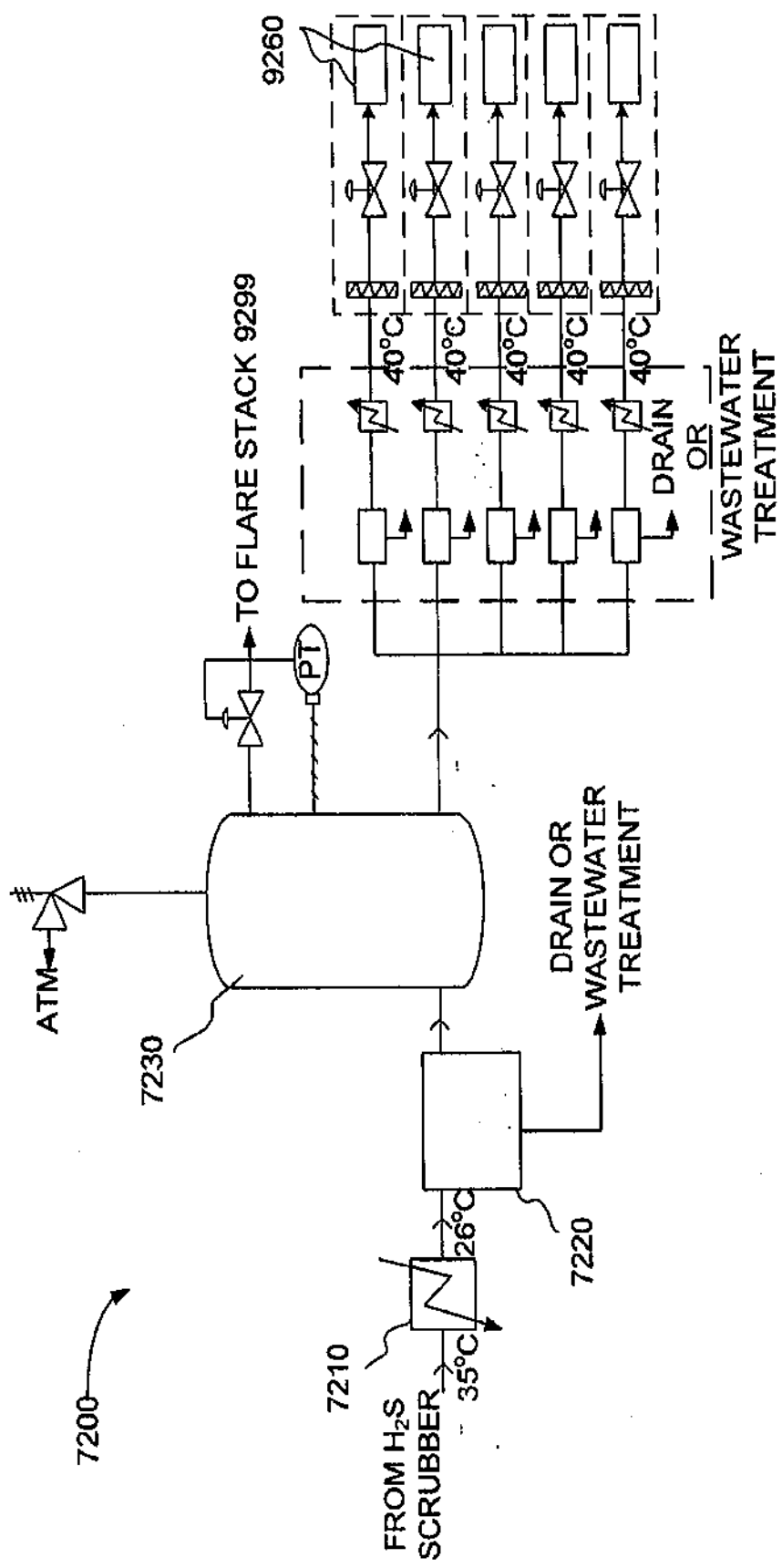
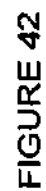


FIGURE 41



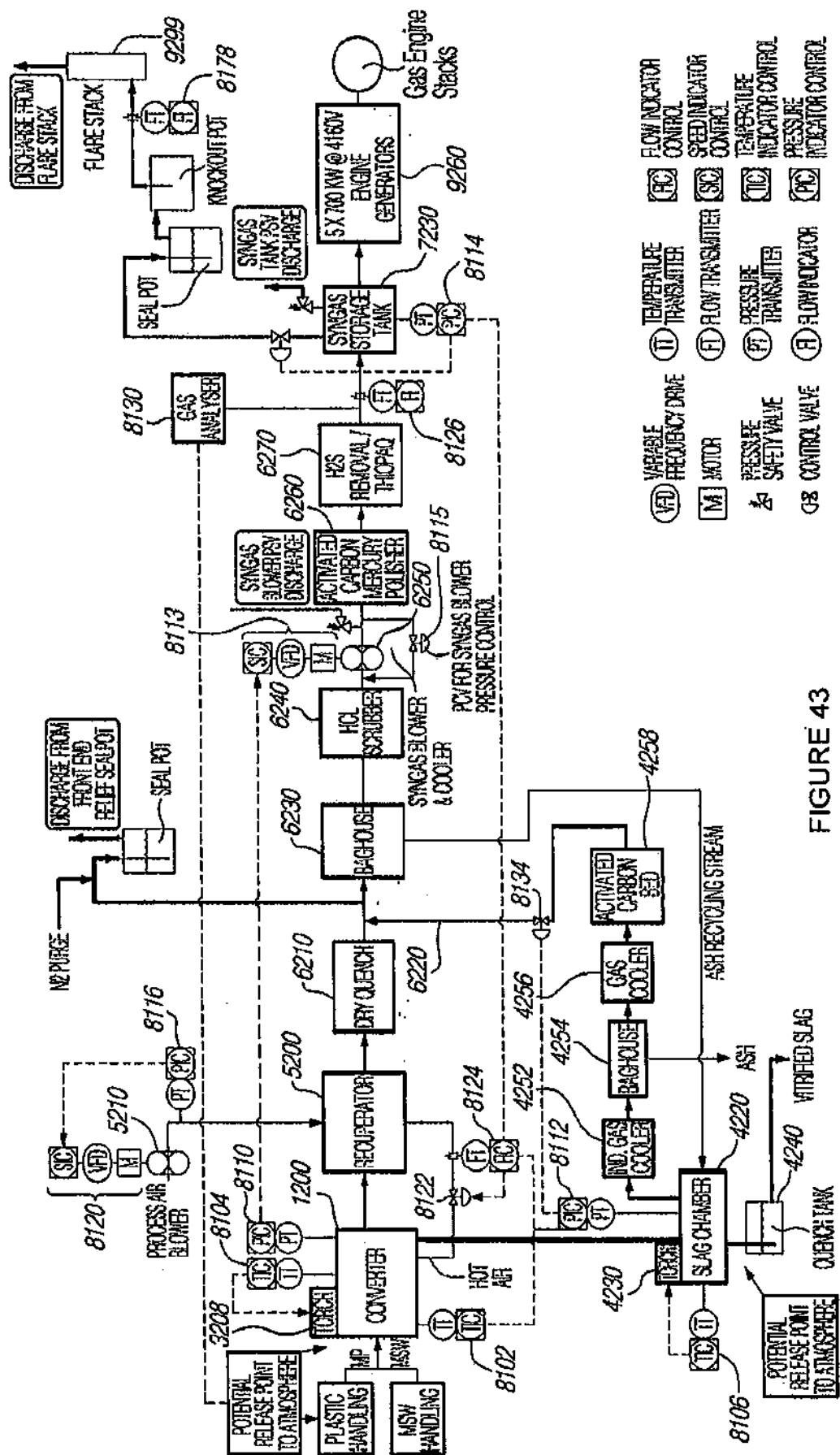


FIGURE 43

- (VFD) VARIABLE FREQUENCY DRIVE
- (M) MOTOR
- (PS) PRESSURE SAFETY VALVE
- (CS) CONTROL VALVE
- (TT) TEMPERATURE TRANSMITTER
- (FT) FLOW TRANSMITTER
- (PI) PRESSURE TRANSMITTER
- (FI) FLOW INDICATOR
- (TC) TEMPERATURE INDICATOR
- (SC) SPEED INDICATOR
- (PC) PRESSURE INDICATOR
- (FC) FLOW INDICATOR
- (FC) FLOW INDICATOR CONTROL
- (SC) SPEED INDICATOR CONTROL
- (TC) TEMPERATURE INDICATOR CONTROL
- (PC) PRESSURE INDICATOR CONTROL

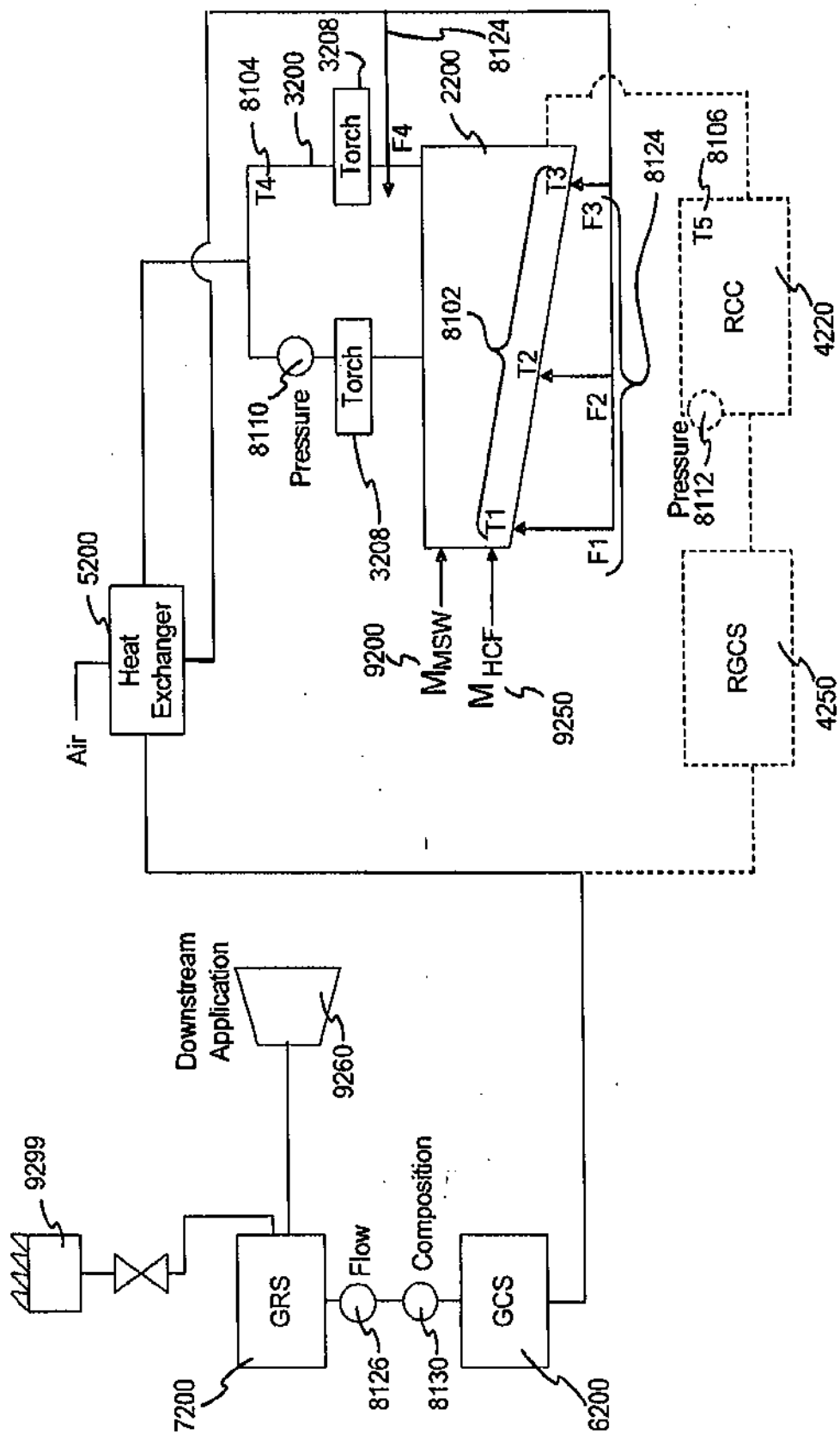


FIGURE 44

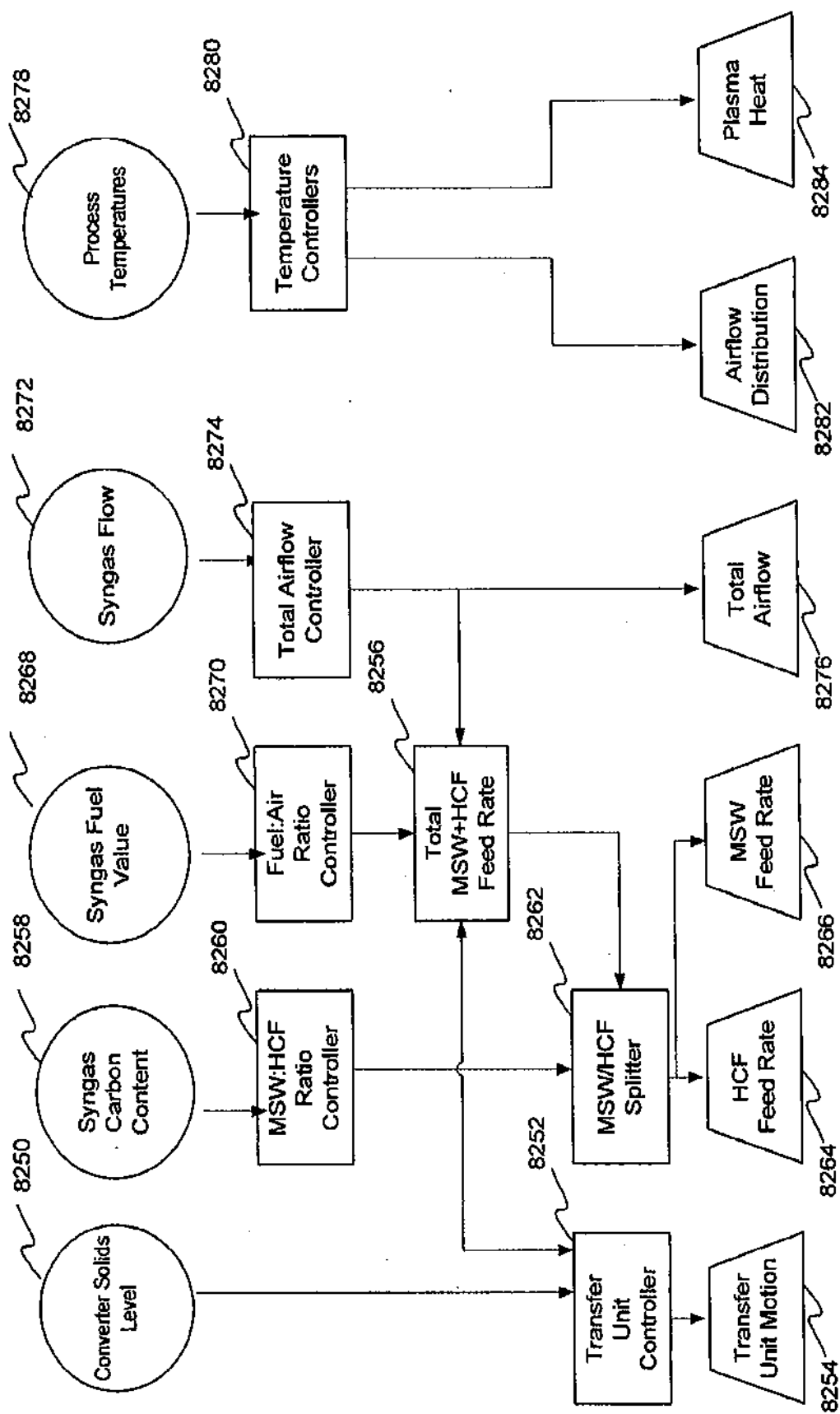
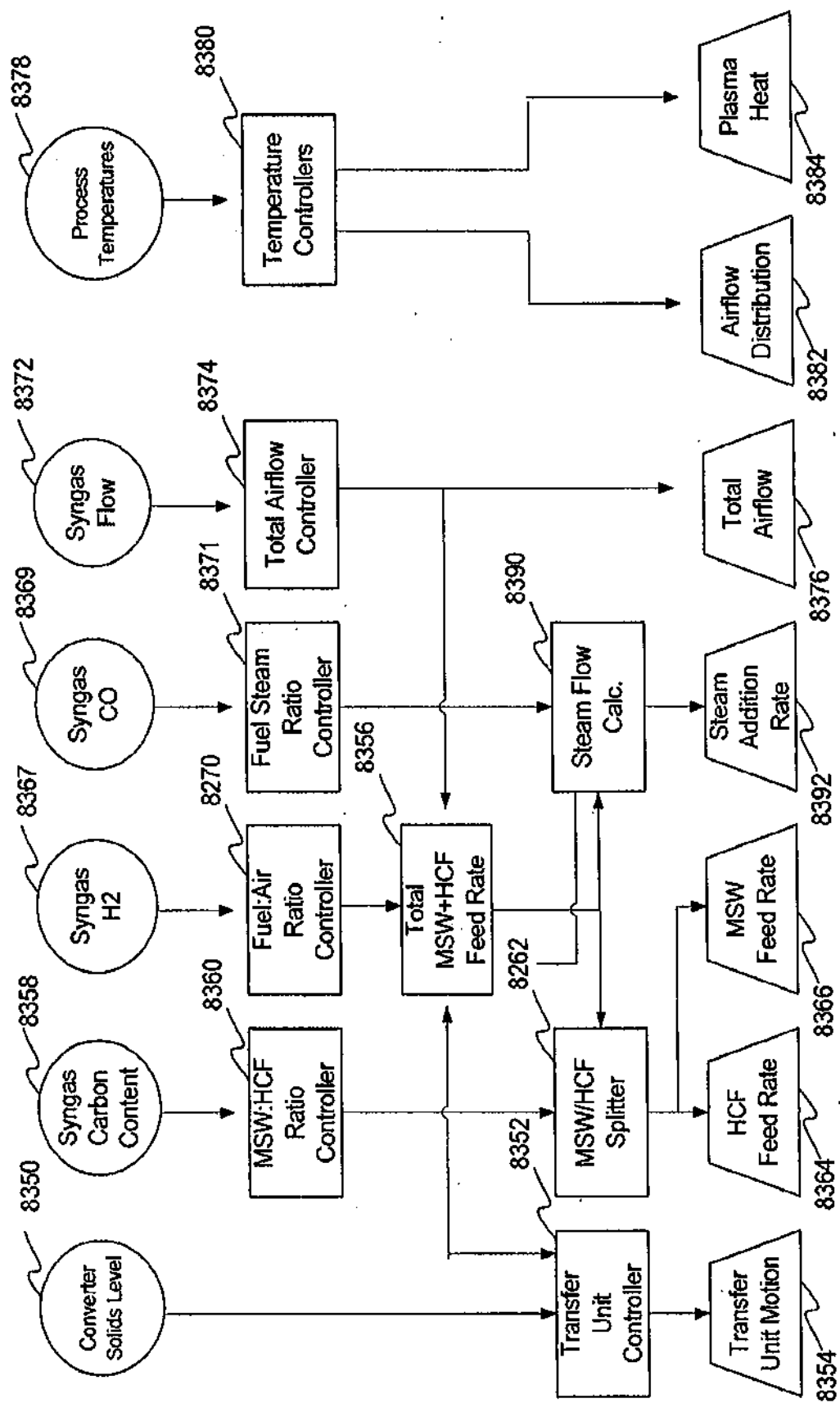


FIGURE 45



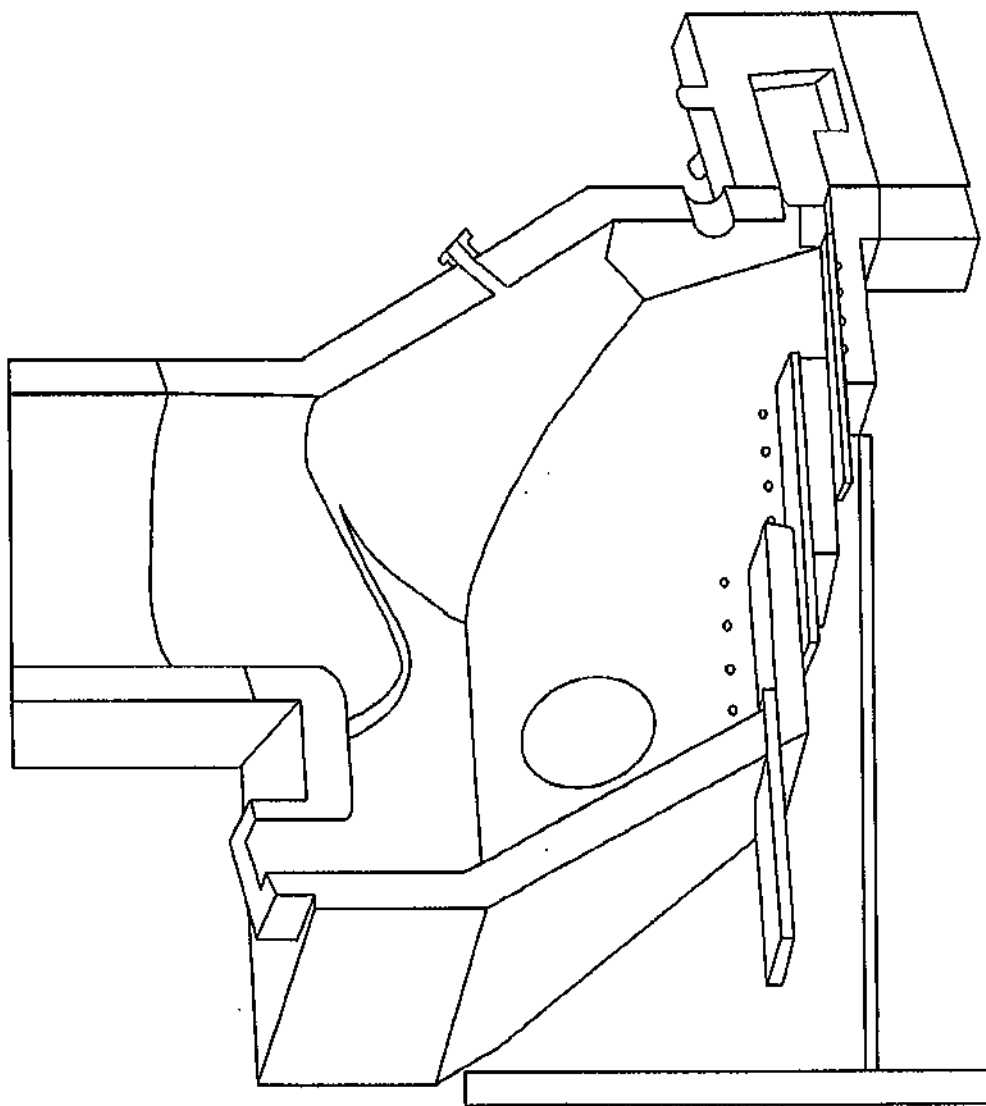


FIGURE 47

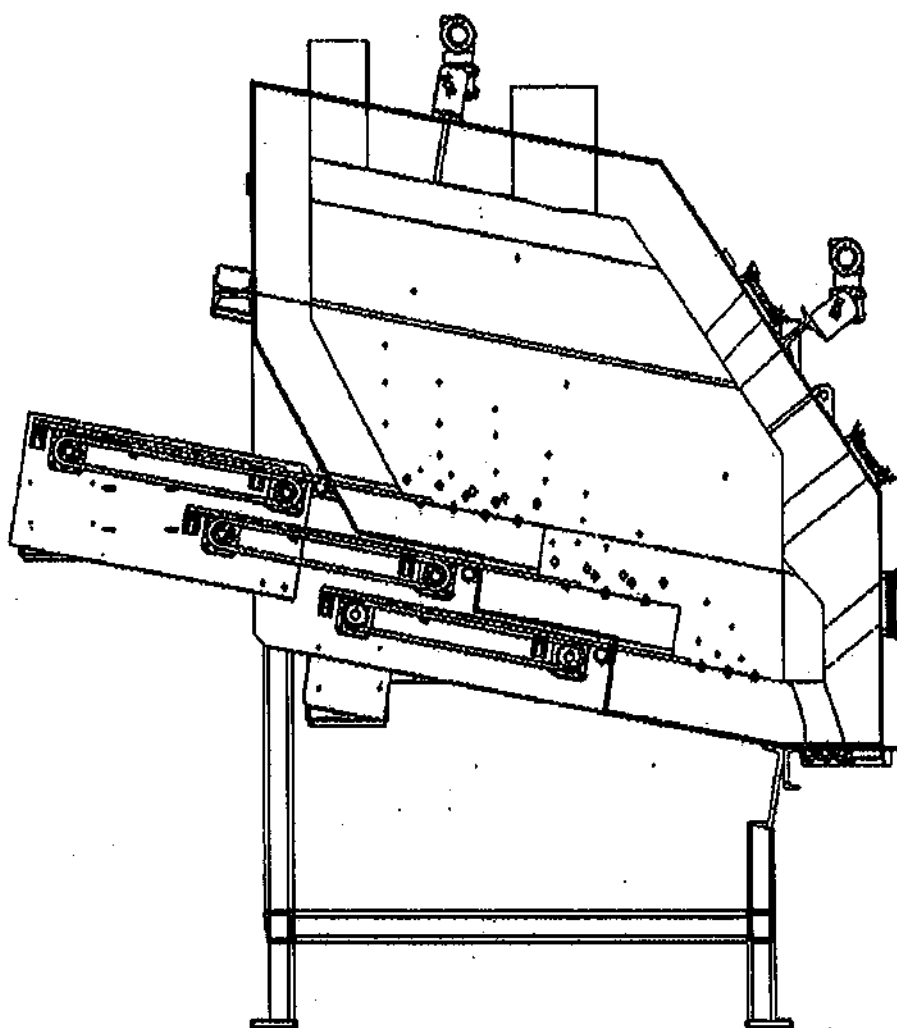


FIGURE 48

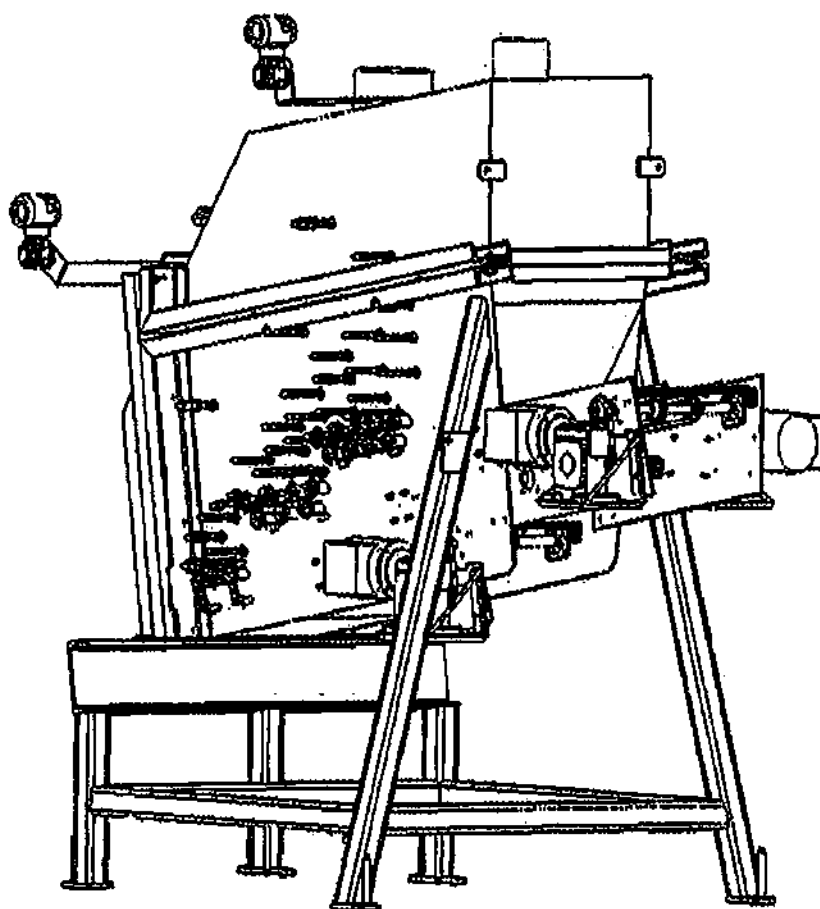


FIGURE 49
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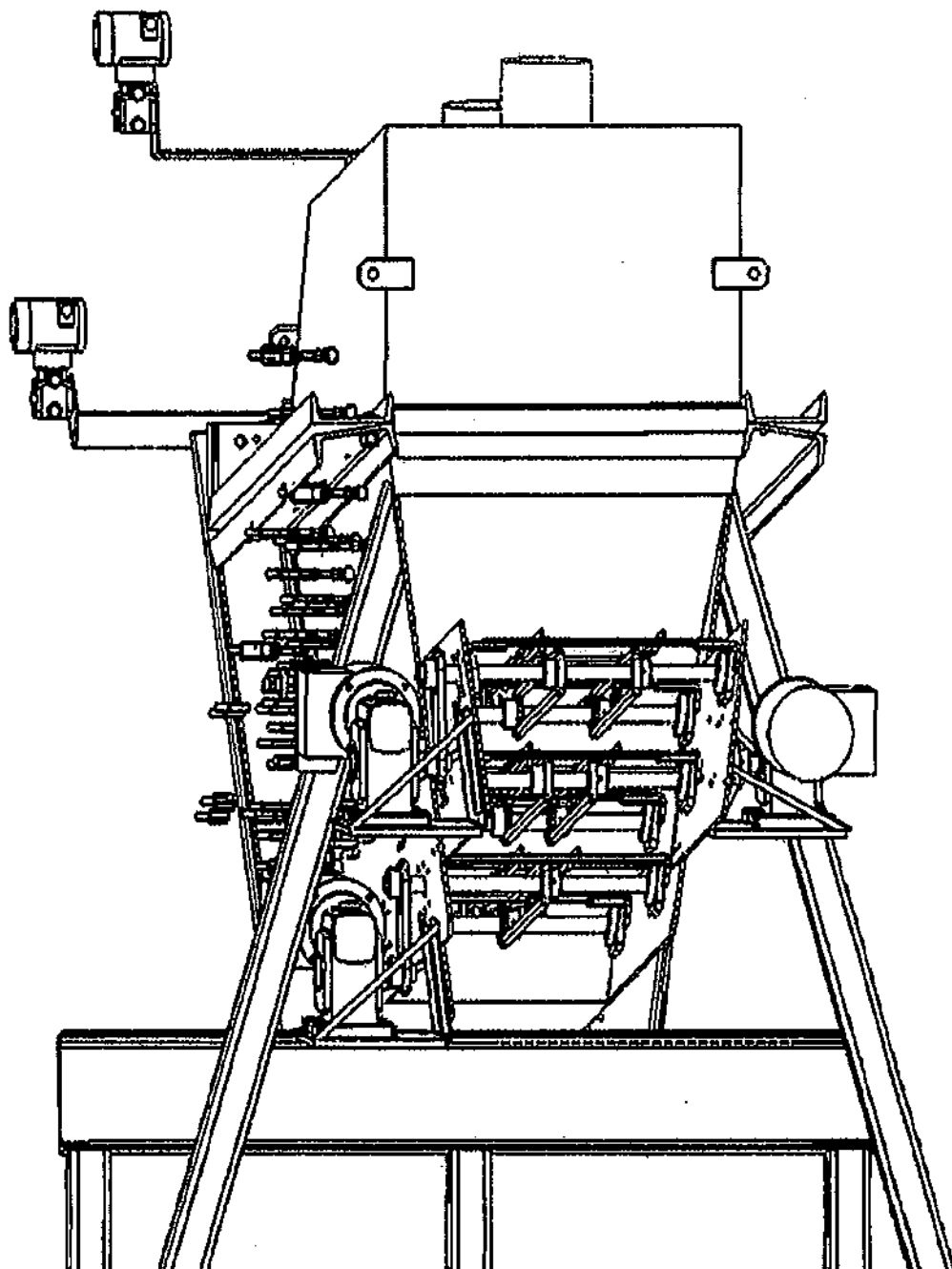


FIGURE 50

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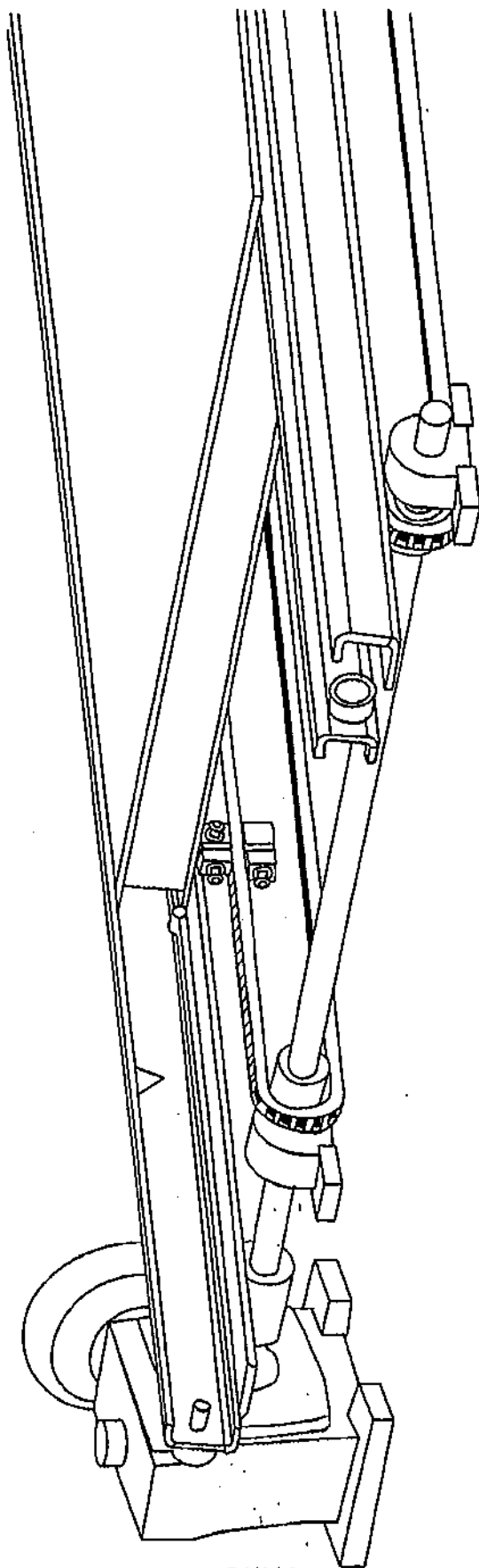


FIGURE 51

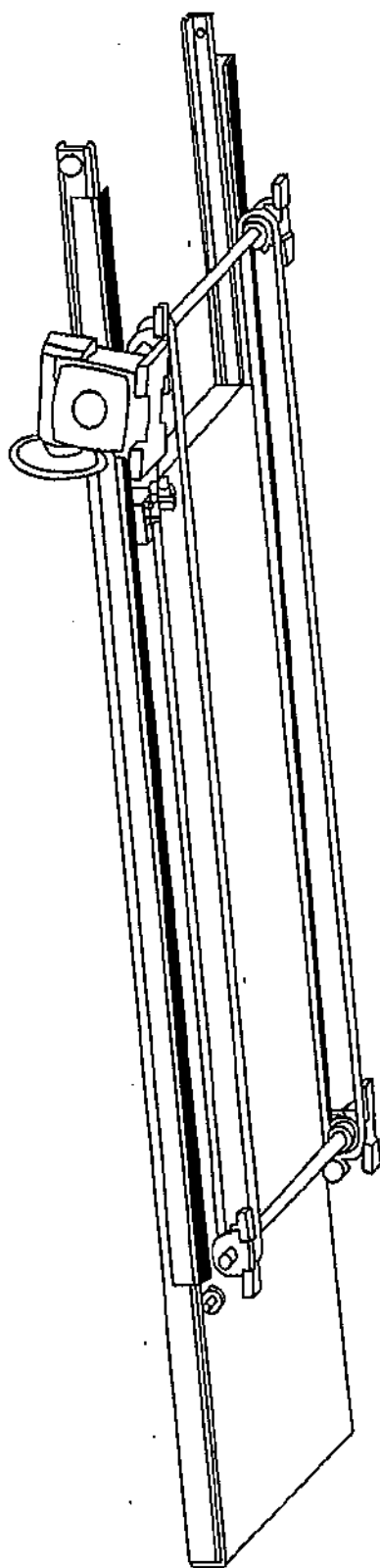


FIGURE 52

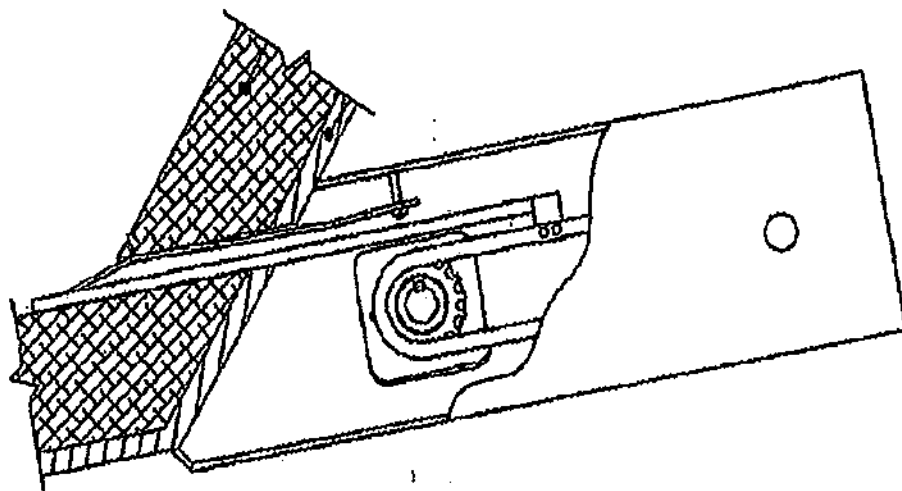


FIGURE 53

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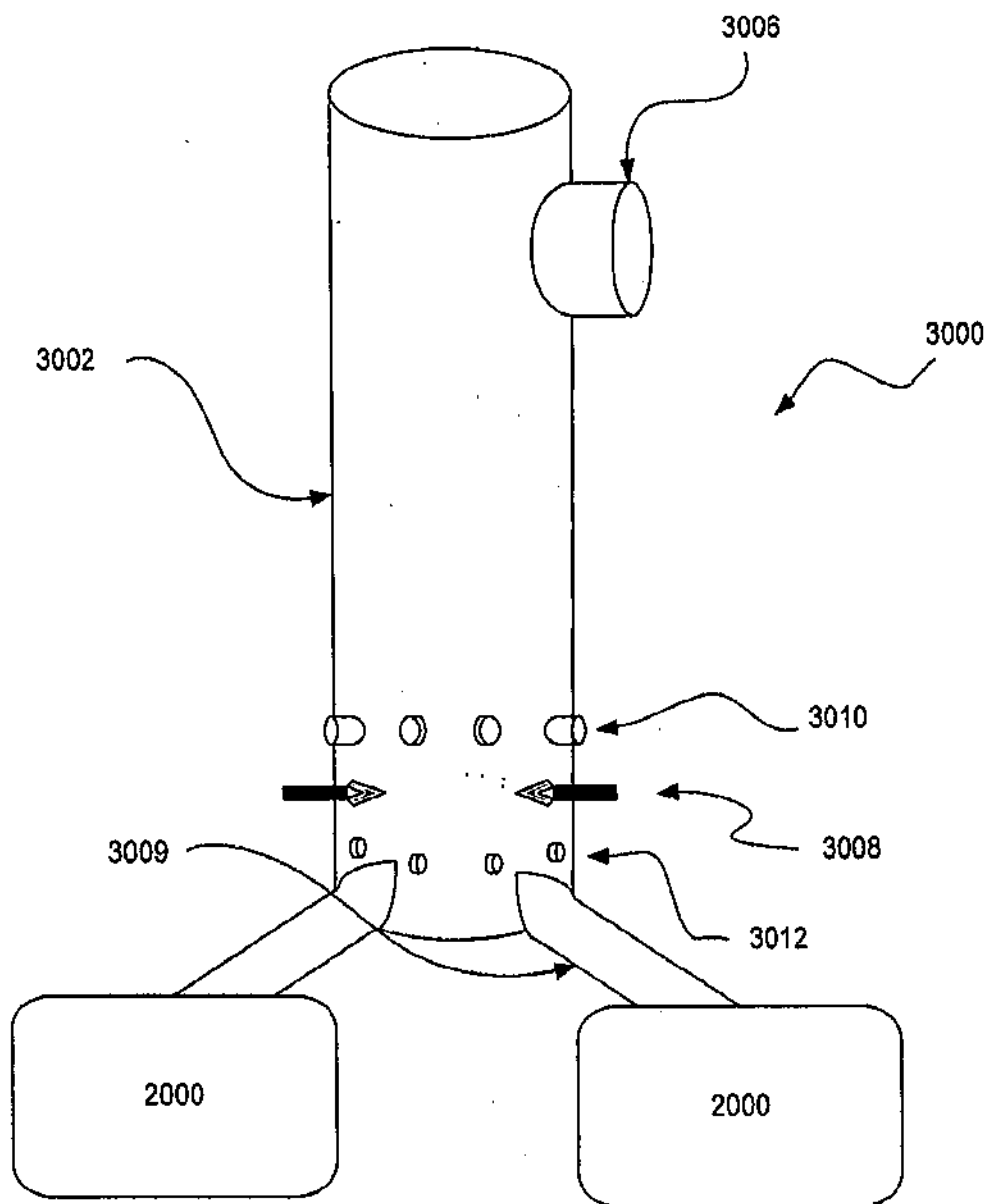


FIGURE 54
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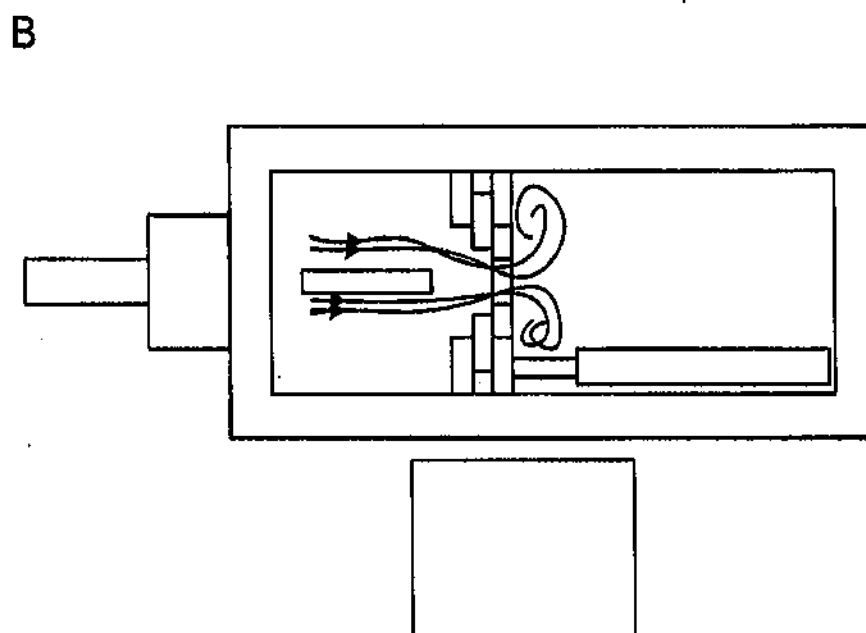
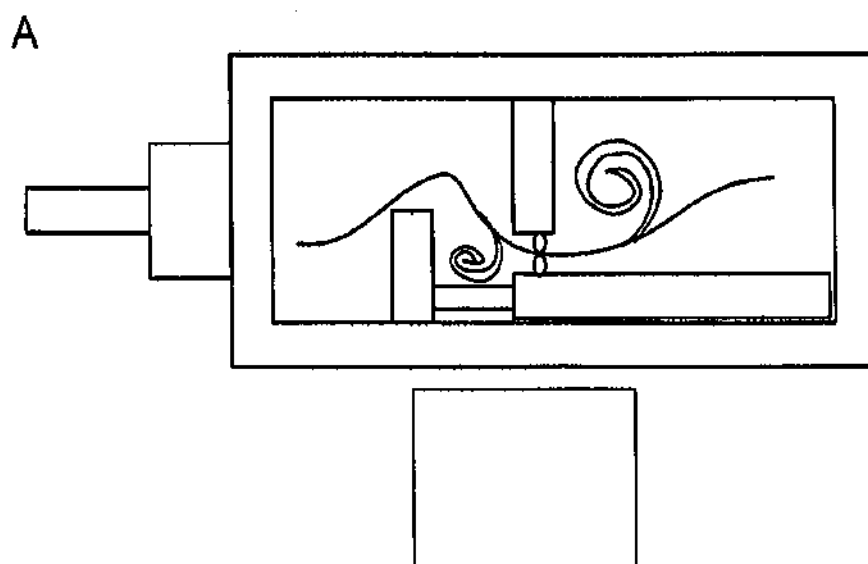


FIGURE 55

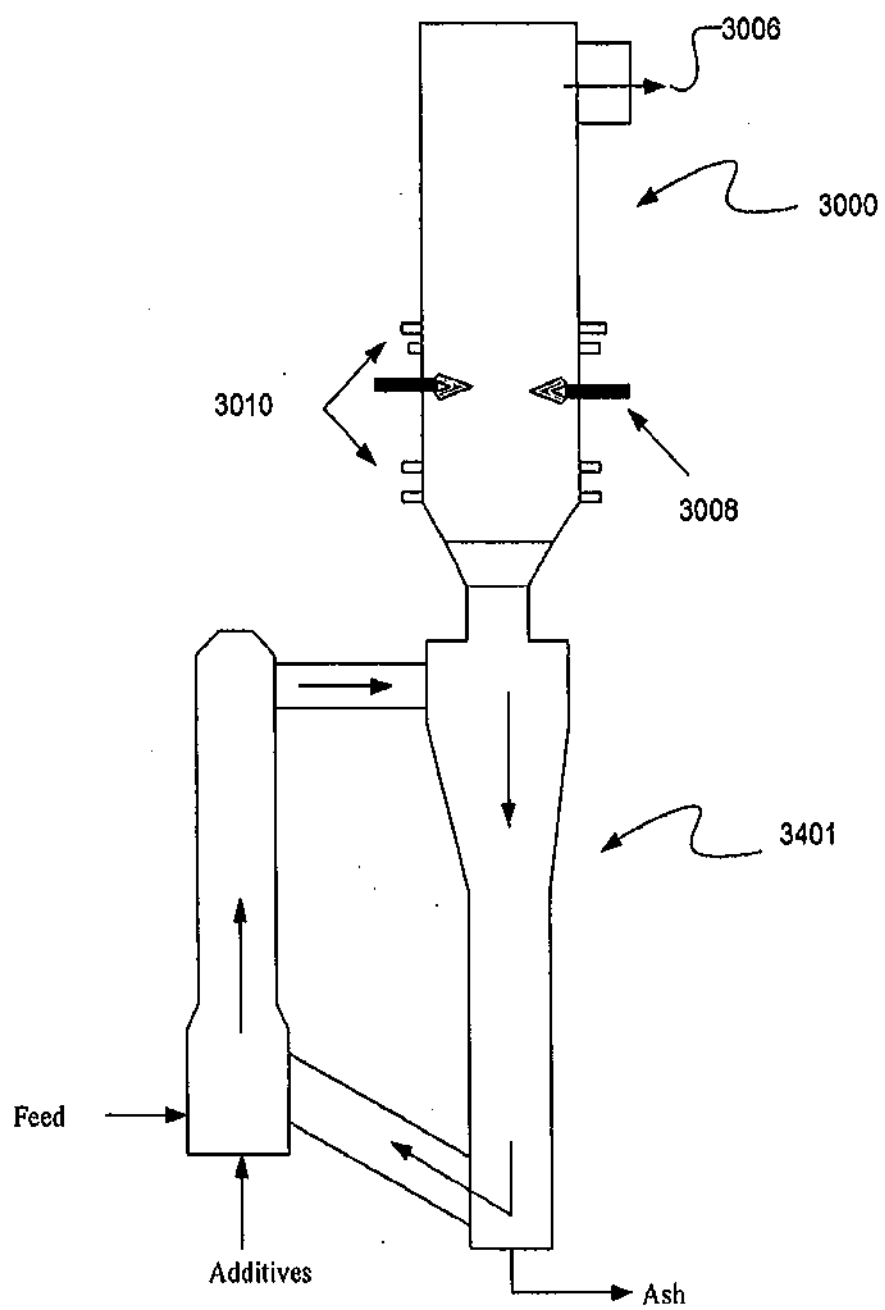


FIGURE 56
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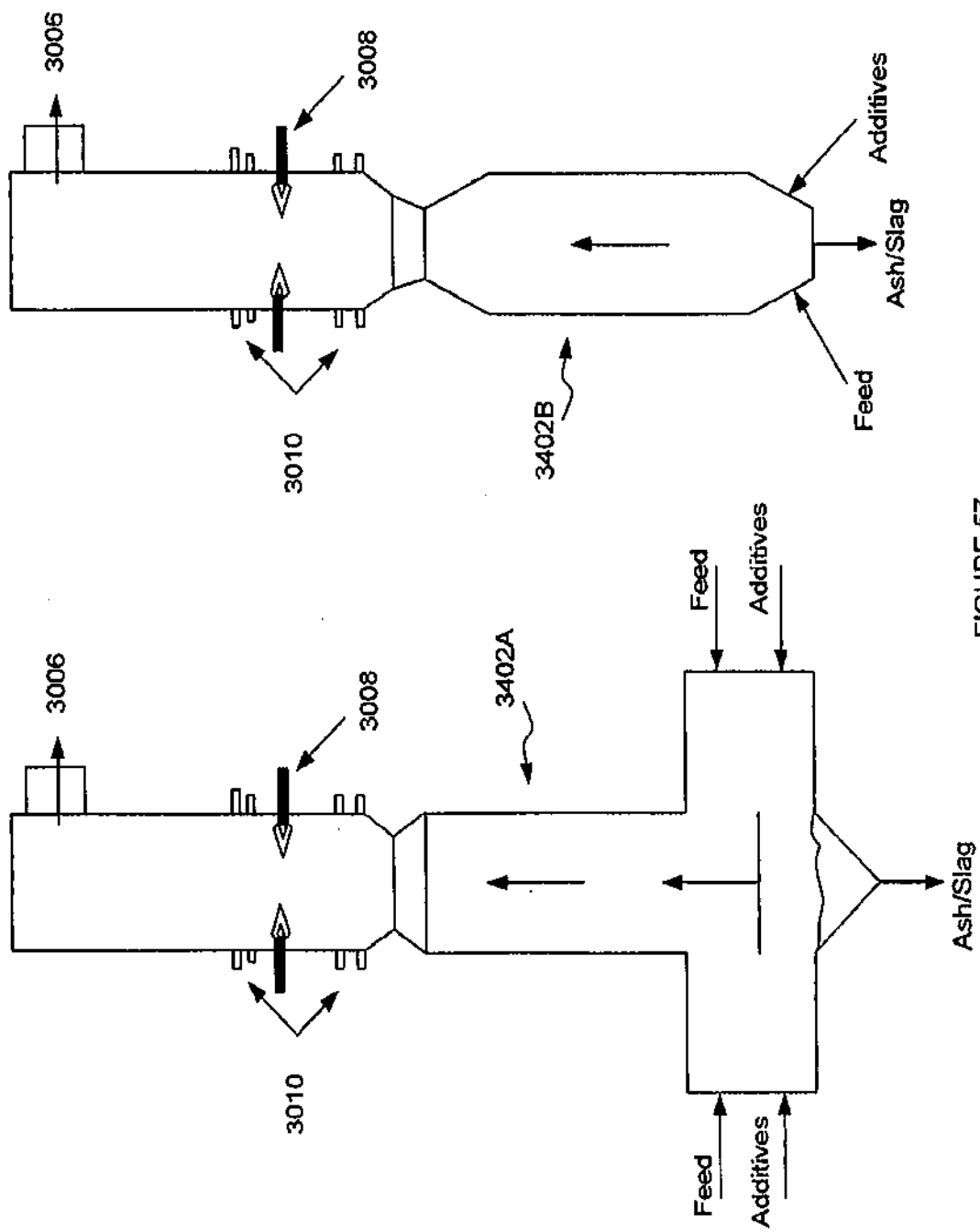


FIGURE 57

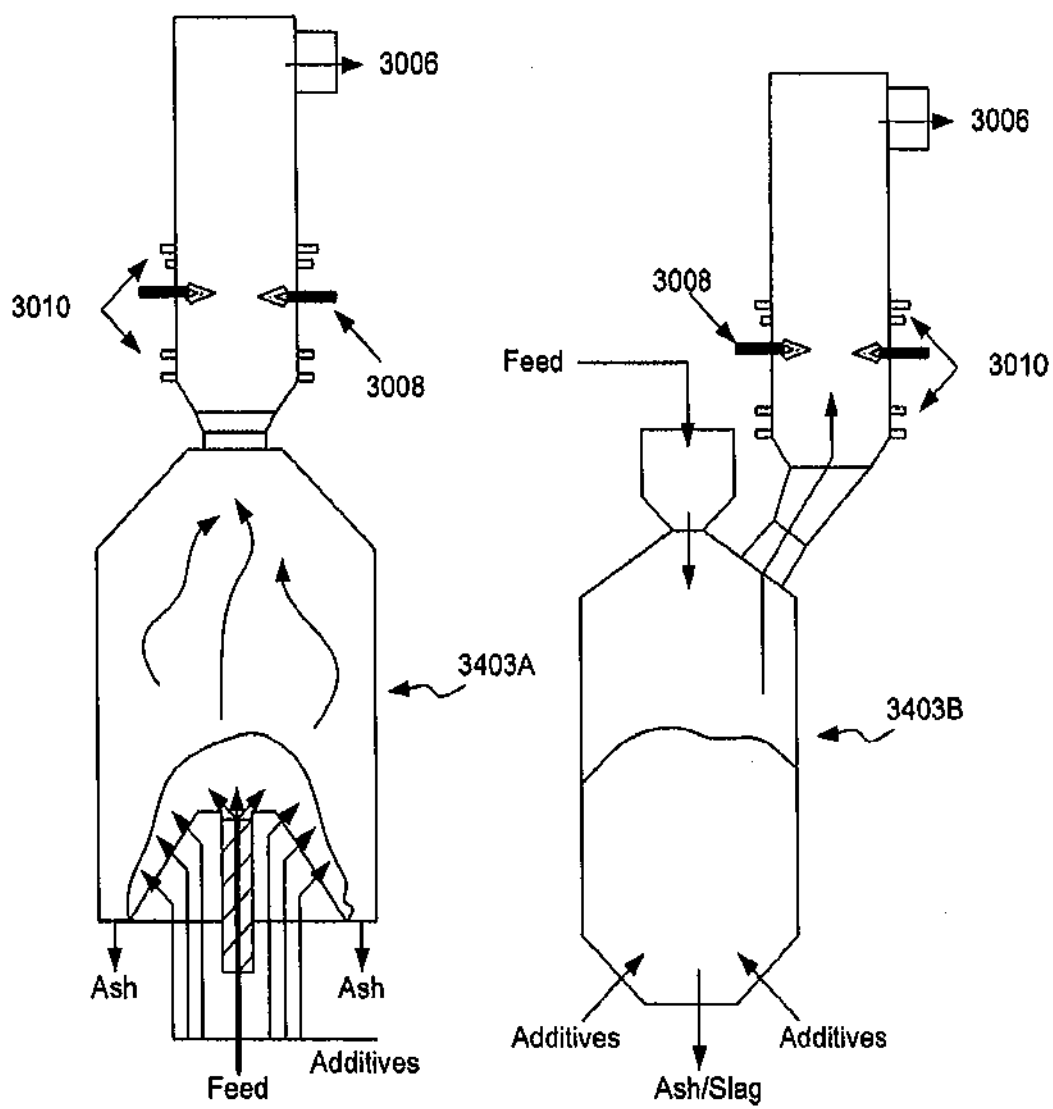


FIGURE 58

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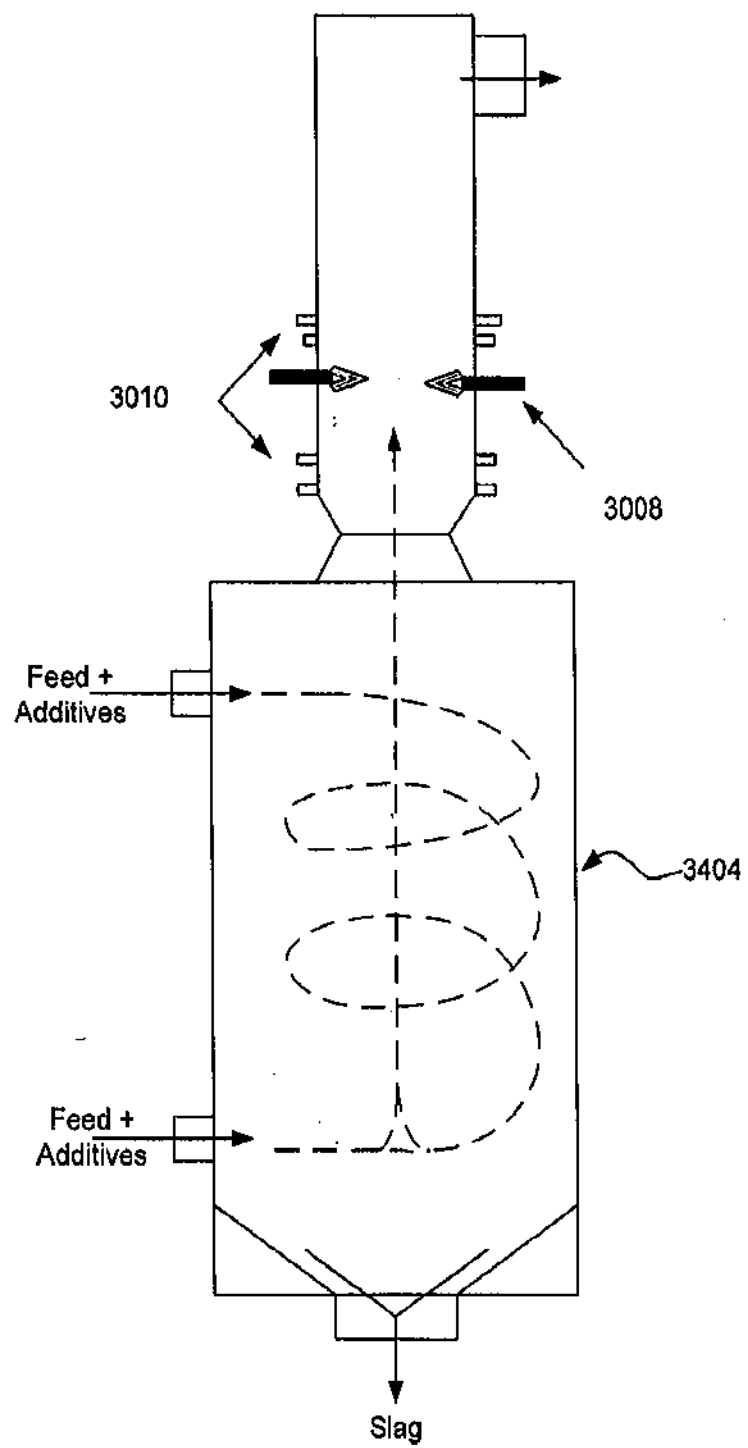


FIGURE 59
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HEAT EXCHANGER & HEAT RECOVERY STEAM GENERATOR

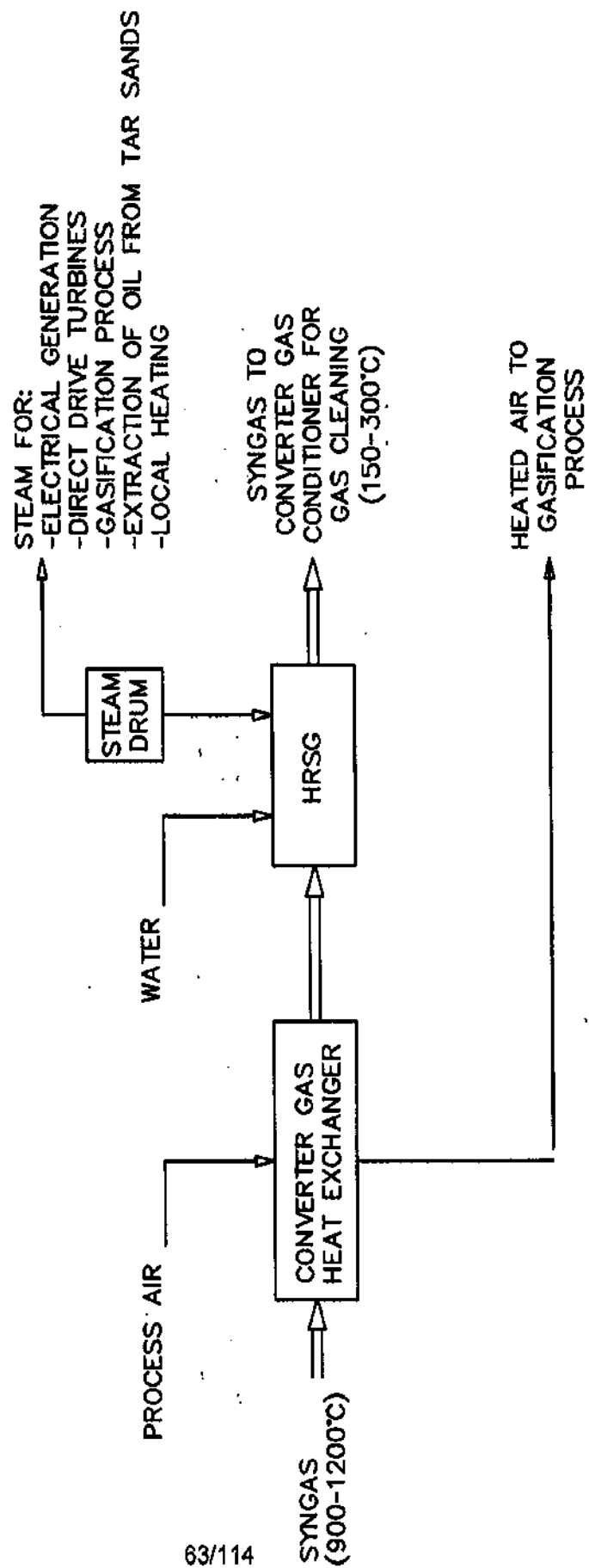


FIGURE 60

HEAT EXCHANGER & QUENCH

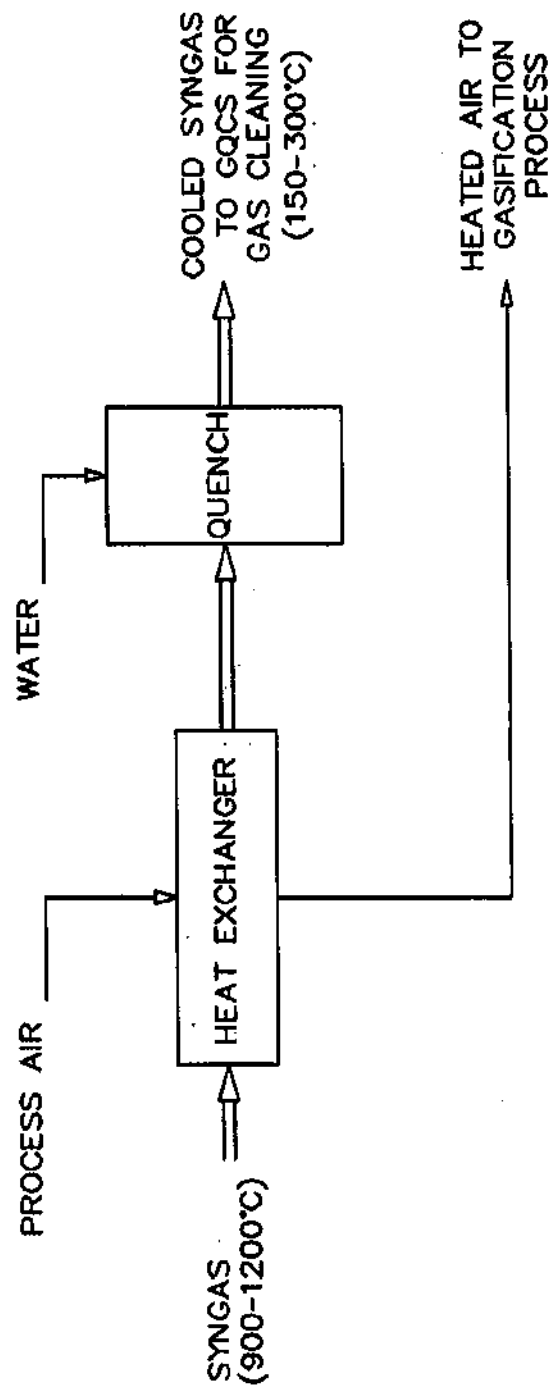


FIGURE 61

VARIOUS HEAT EXCHANGERS

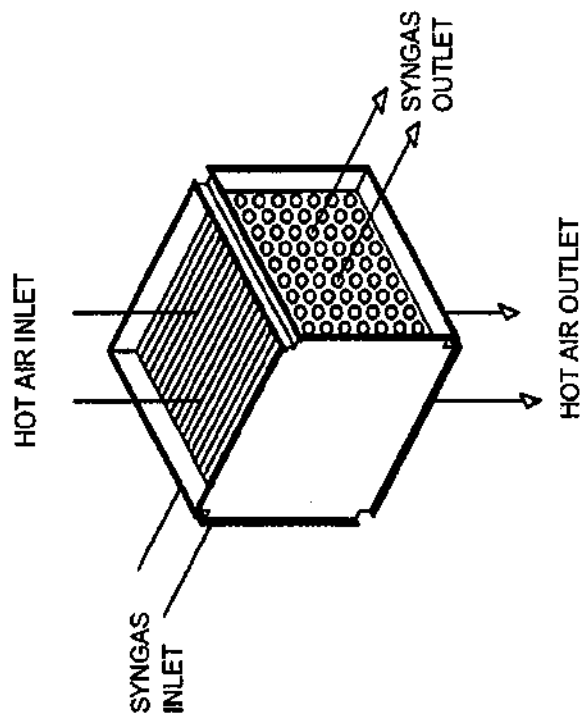
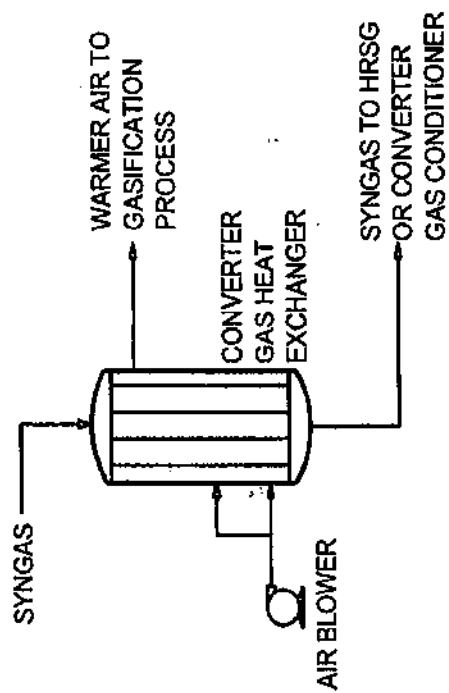


FIGURE 62



MEANS TO TRANSFER THE EXCHANGE-AIR TO
THE GASIFICATION REACTOR

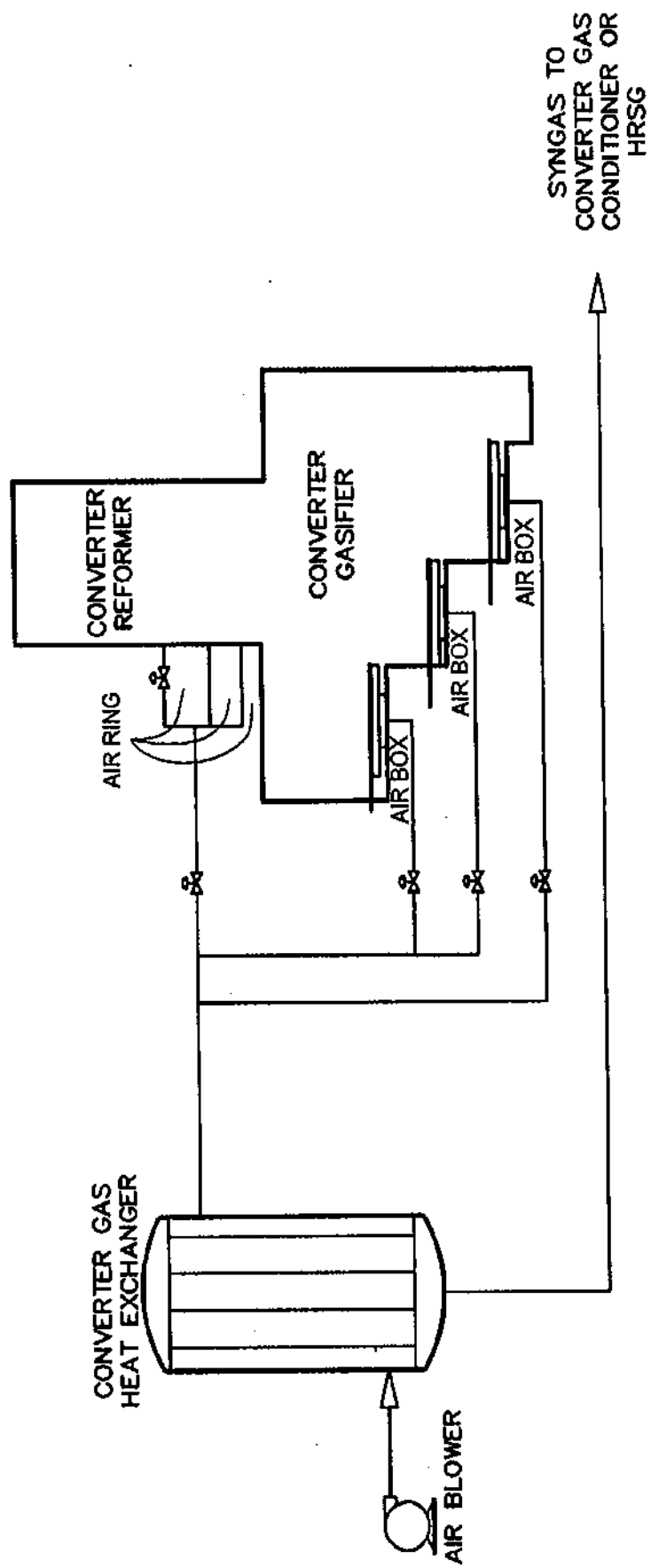


FIGURE 63

HEAT EXCHANGER & HEAT RECOVERY STEAM GENERATOR (HRSG)

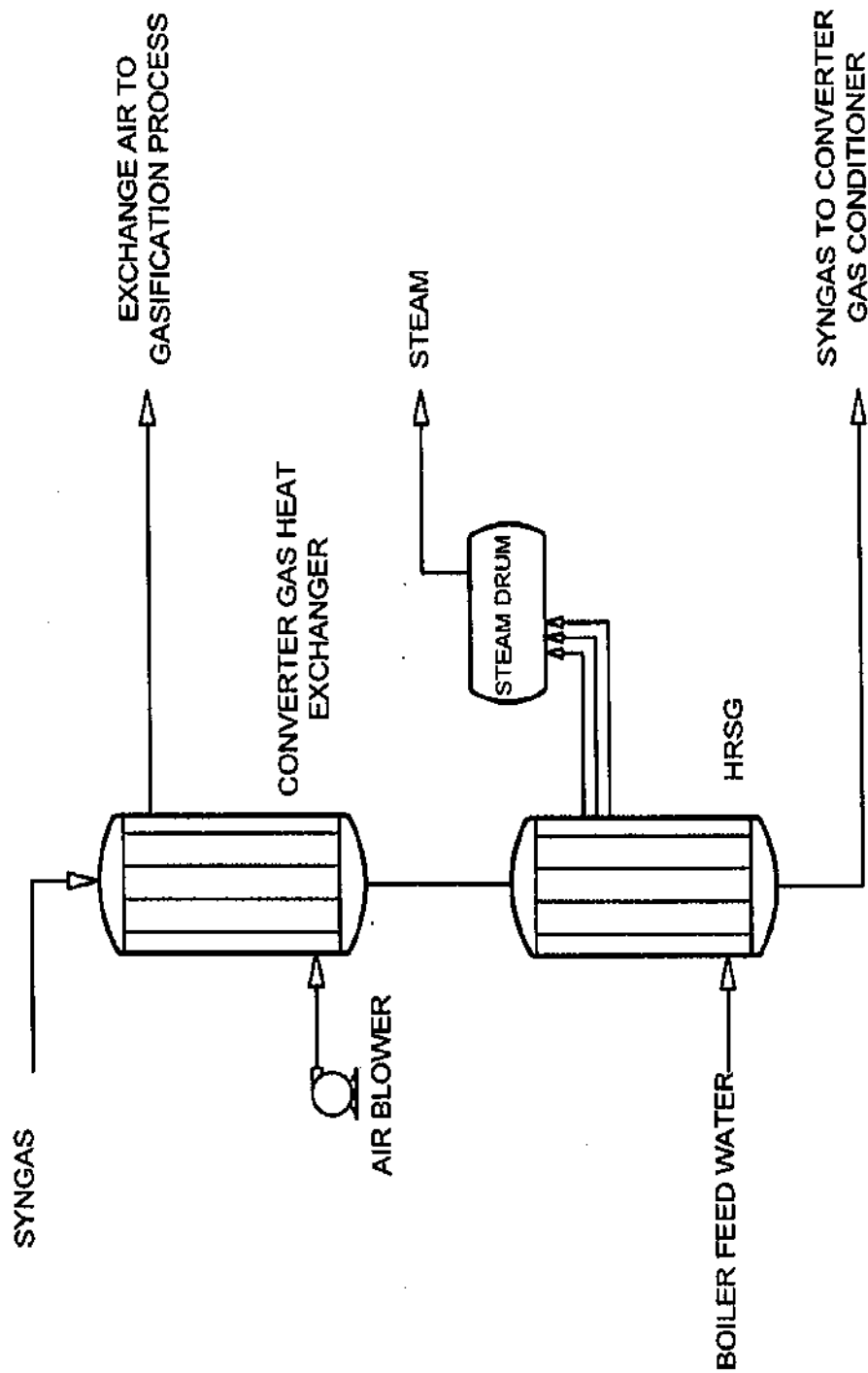
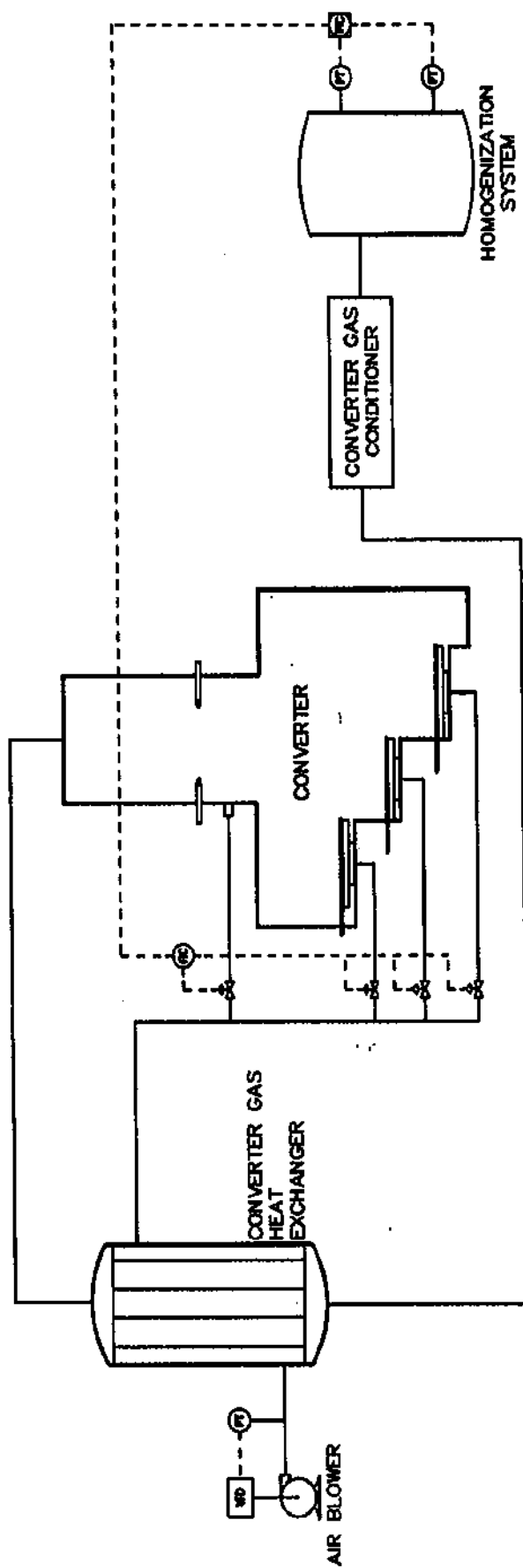


FIGURE 64

SYNGAS PRESSURE/FLOW
CONTROL



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FIGURE 65

TEMPERATURE CONTROL

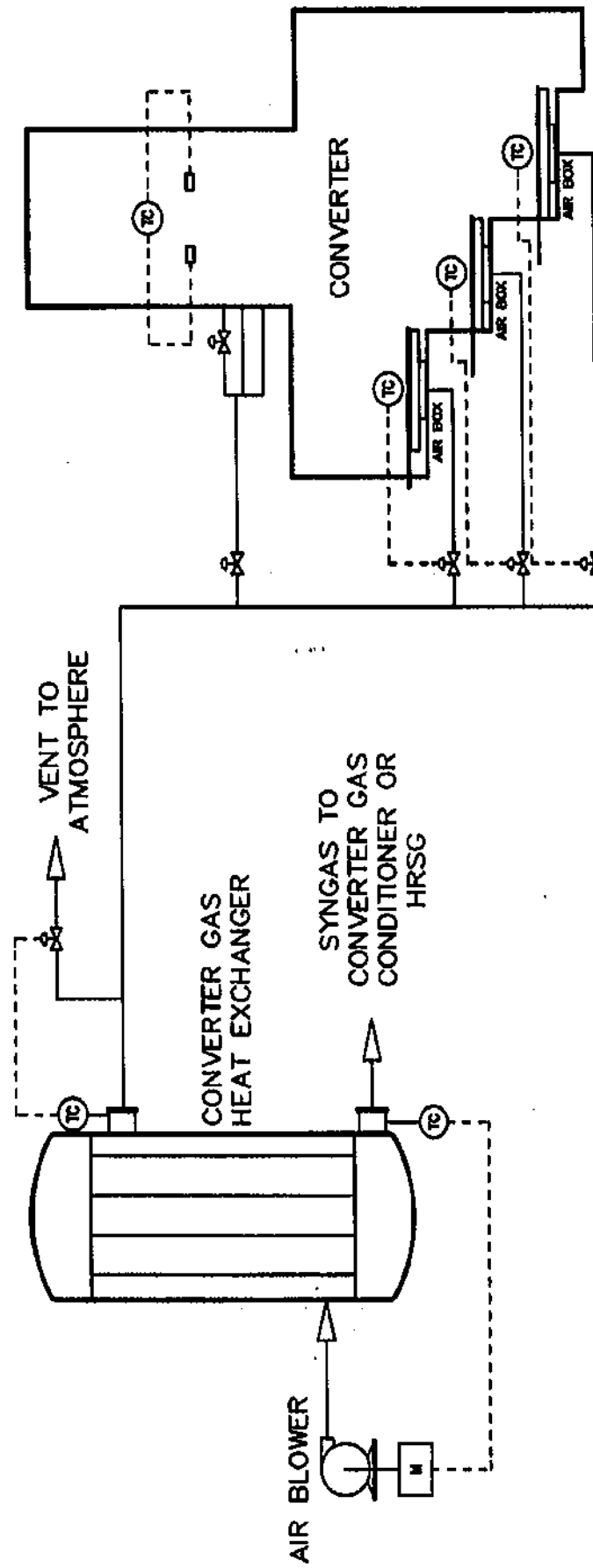


FIGURE 66

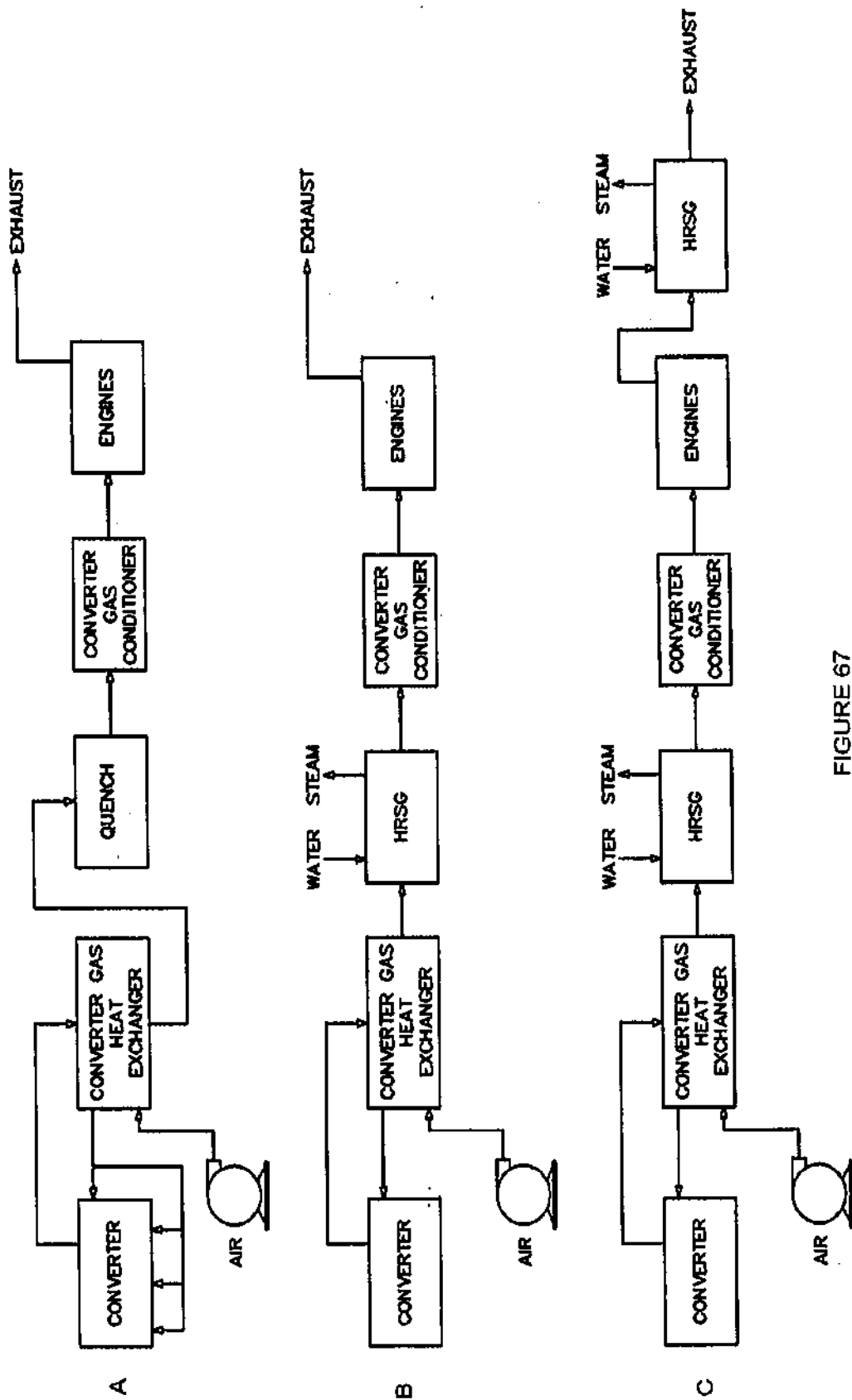


FIGURE 67

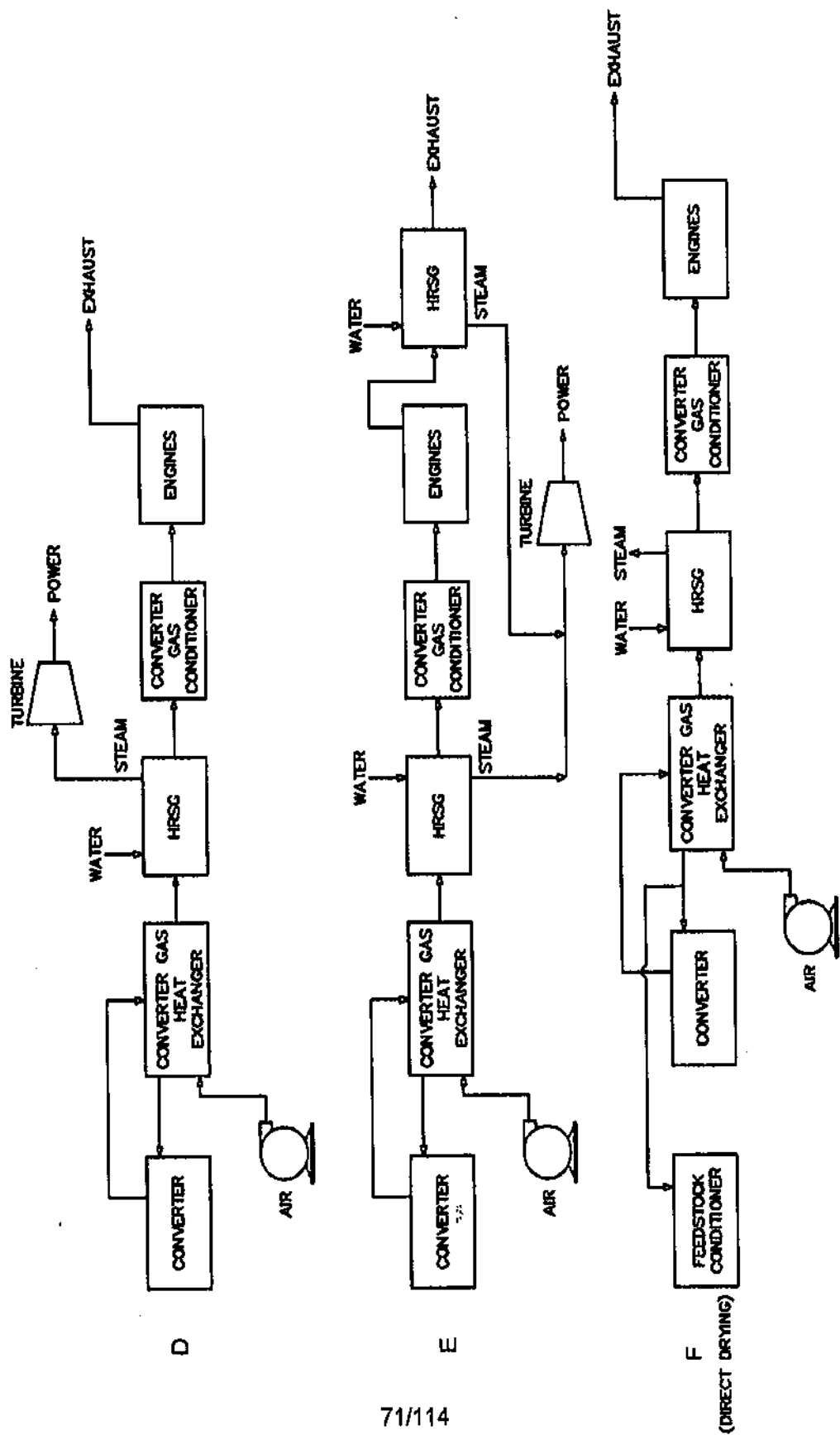
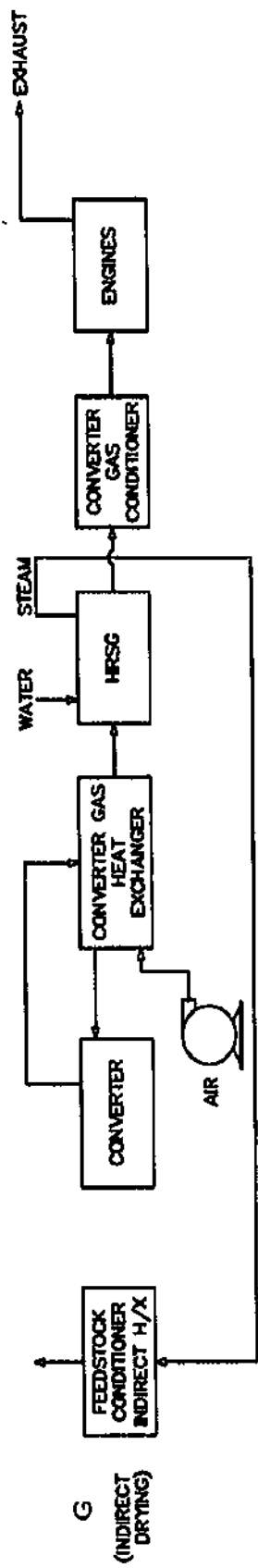
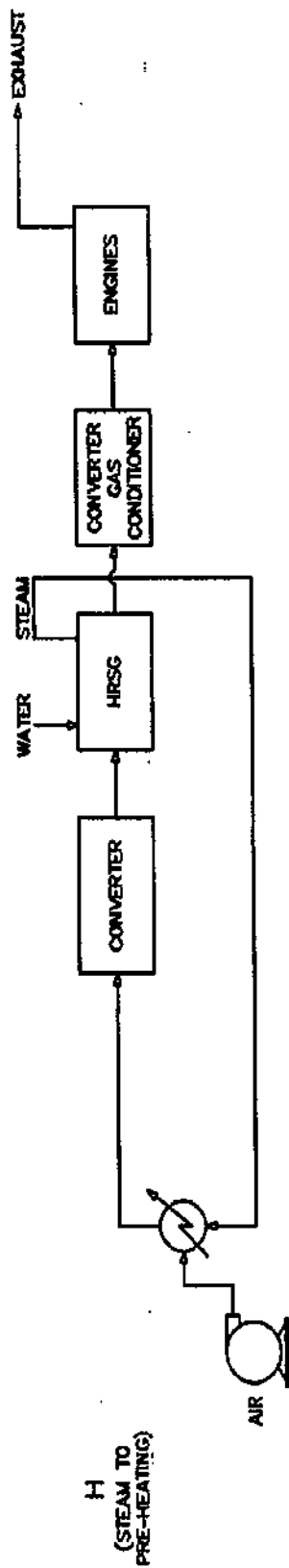


FIGURE 67 (CON.)



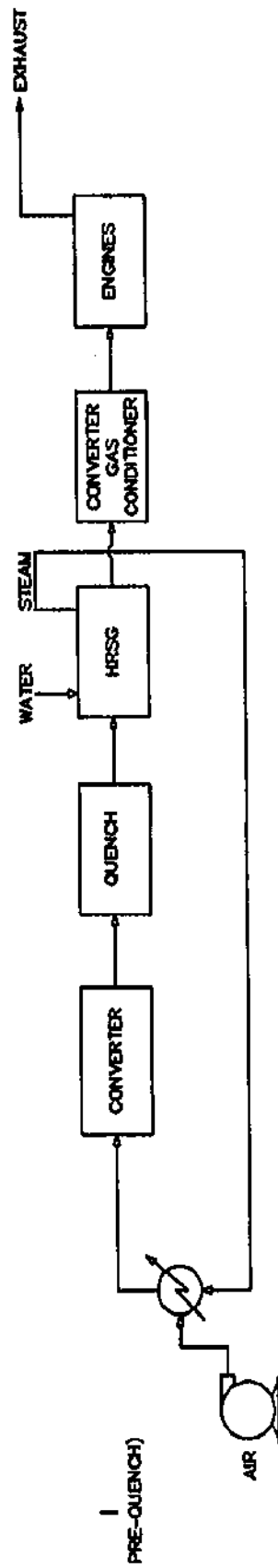
G

(INDIRECT DRYING)



H

(STEAM TO PRE-HEATING)



I

(PRE-QUENCH)

FIGURE 67 (CON.)

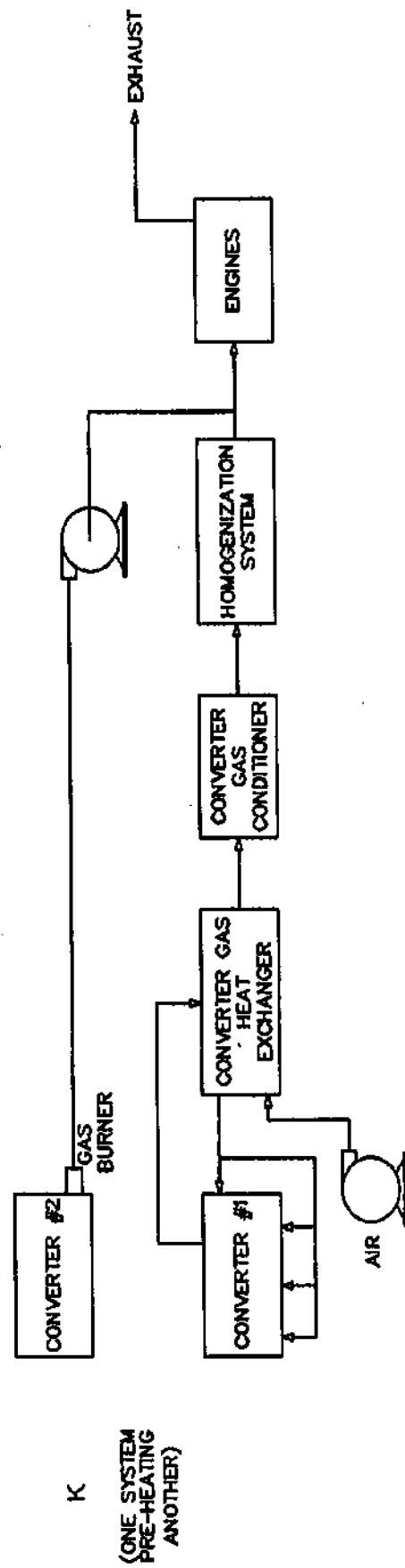
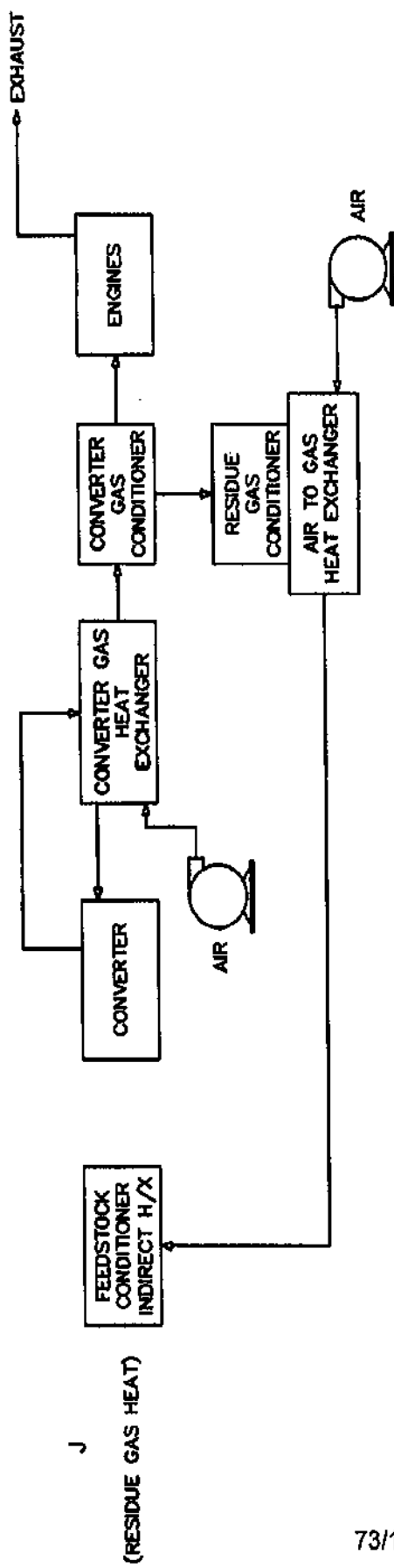


FIGURE 67 (CON.)

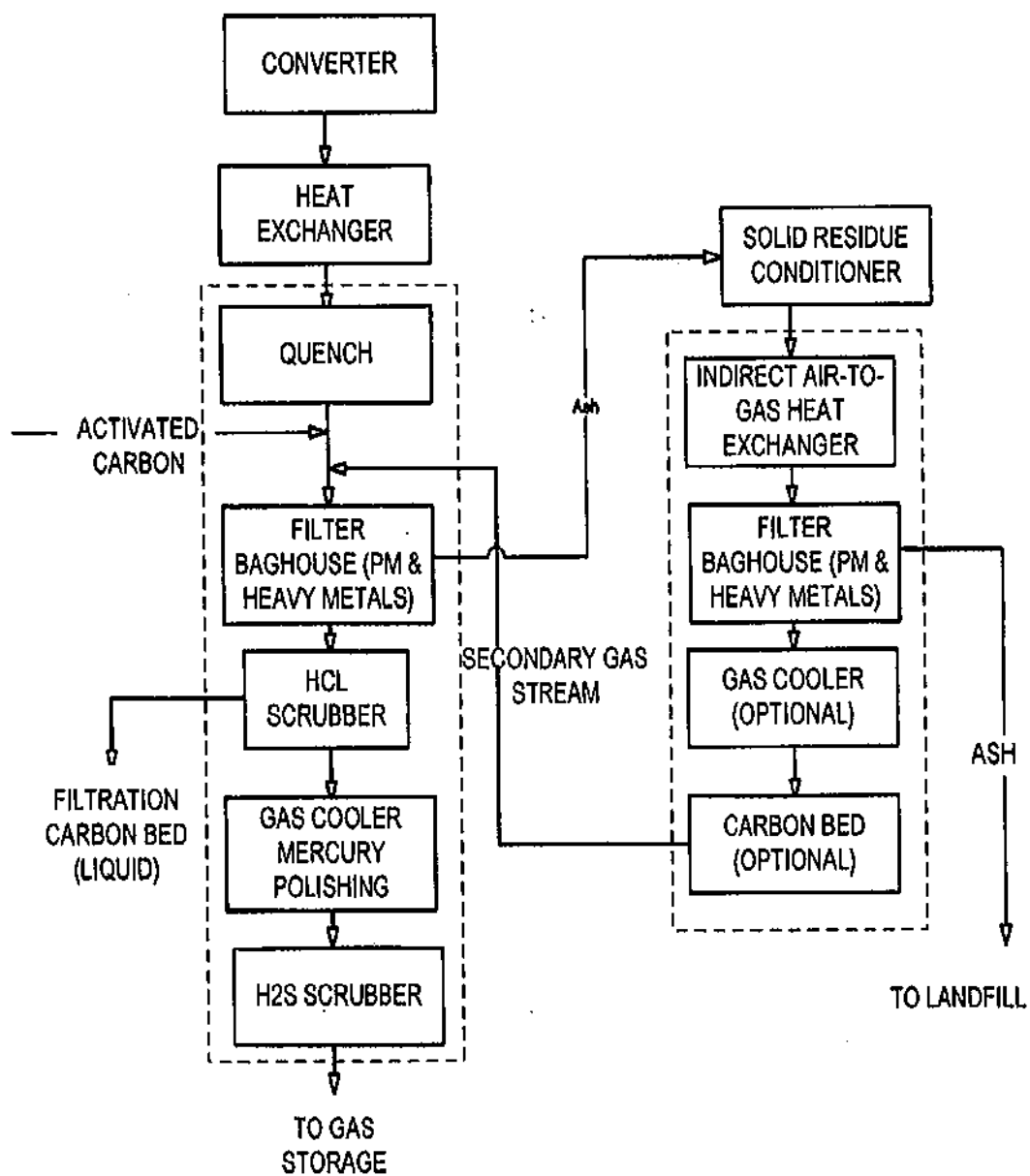


FIGURE 68

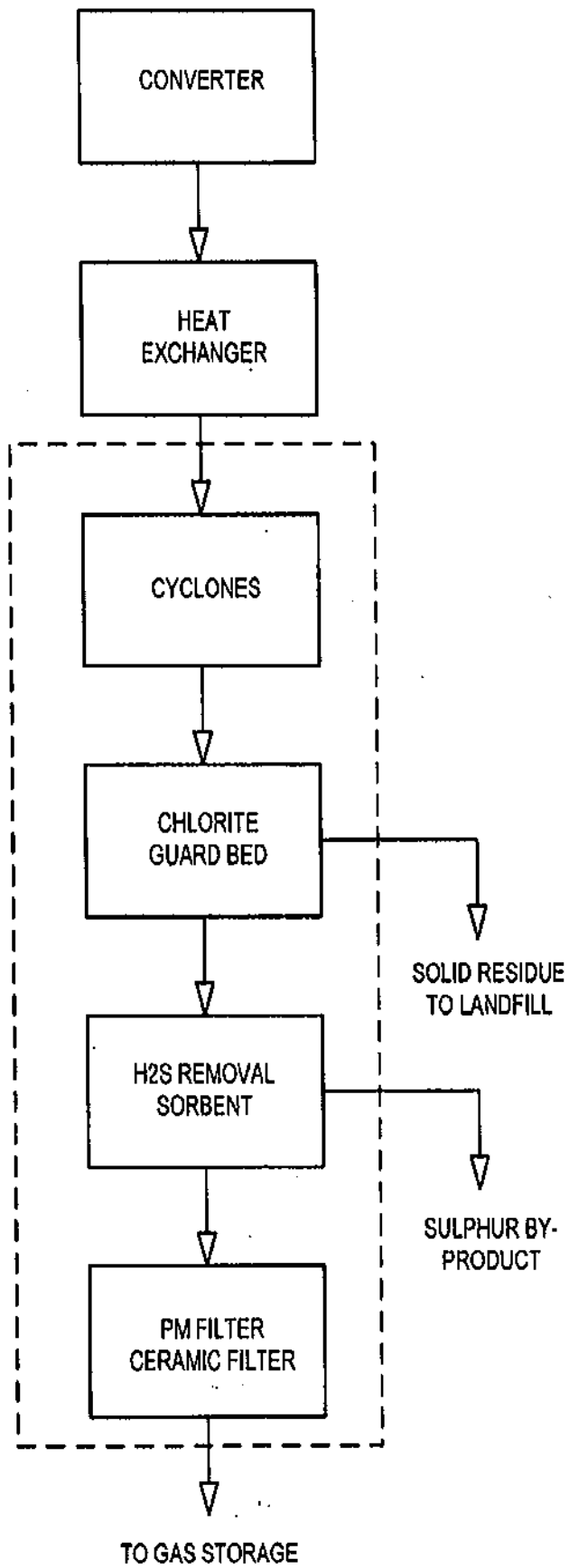


FIGURE 69
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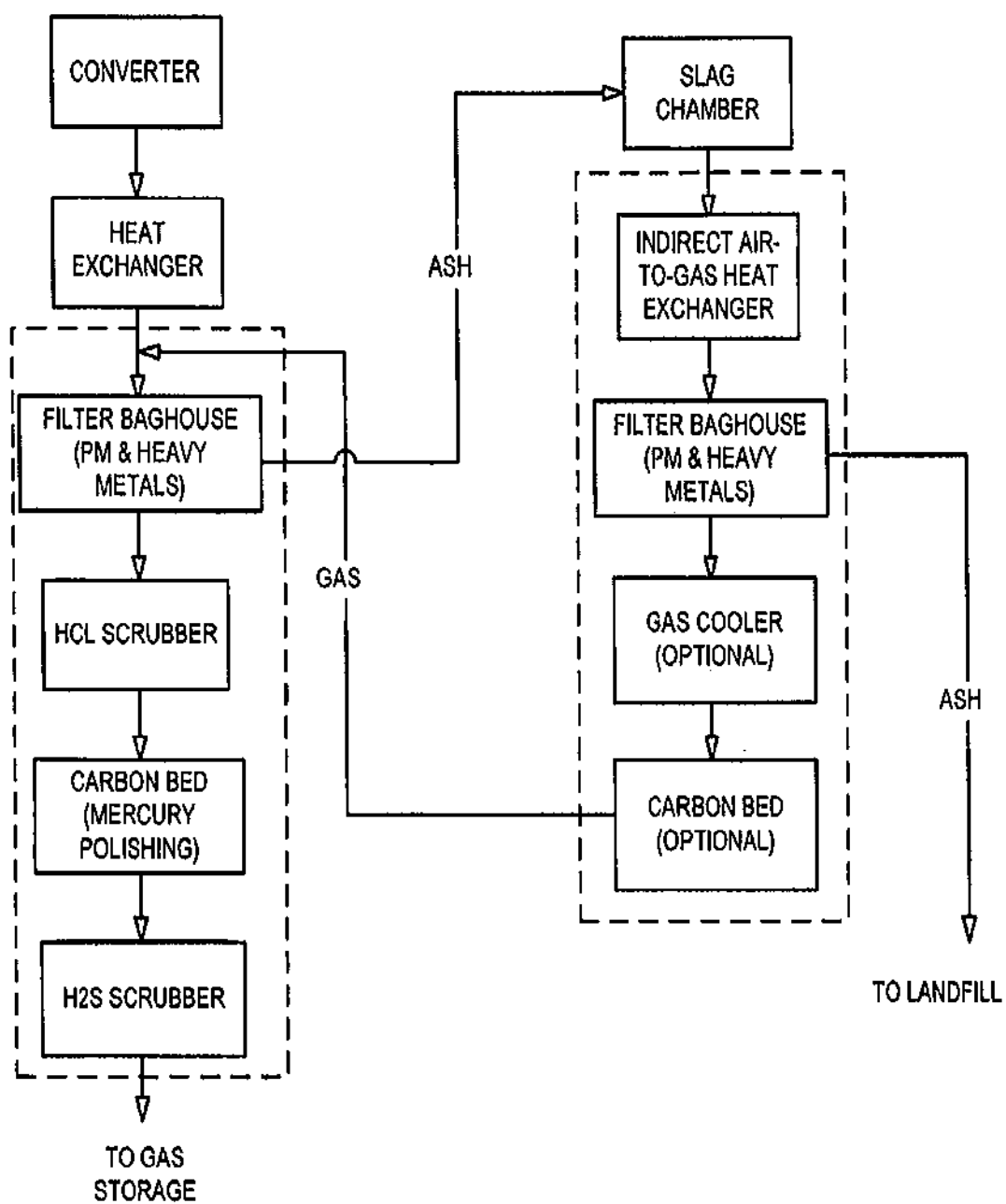


FIGURE 70

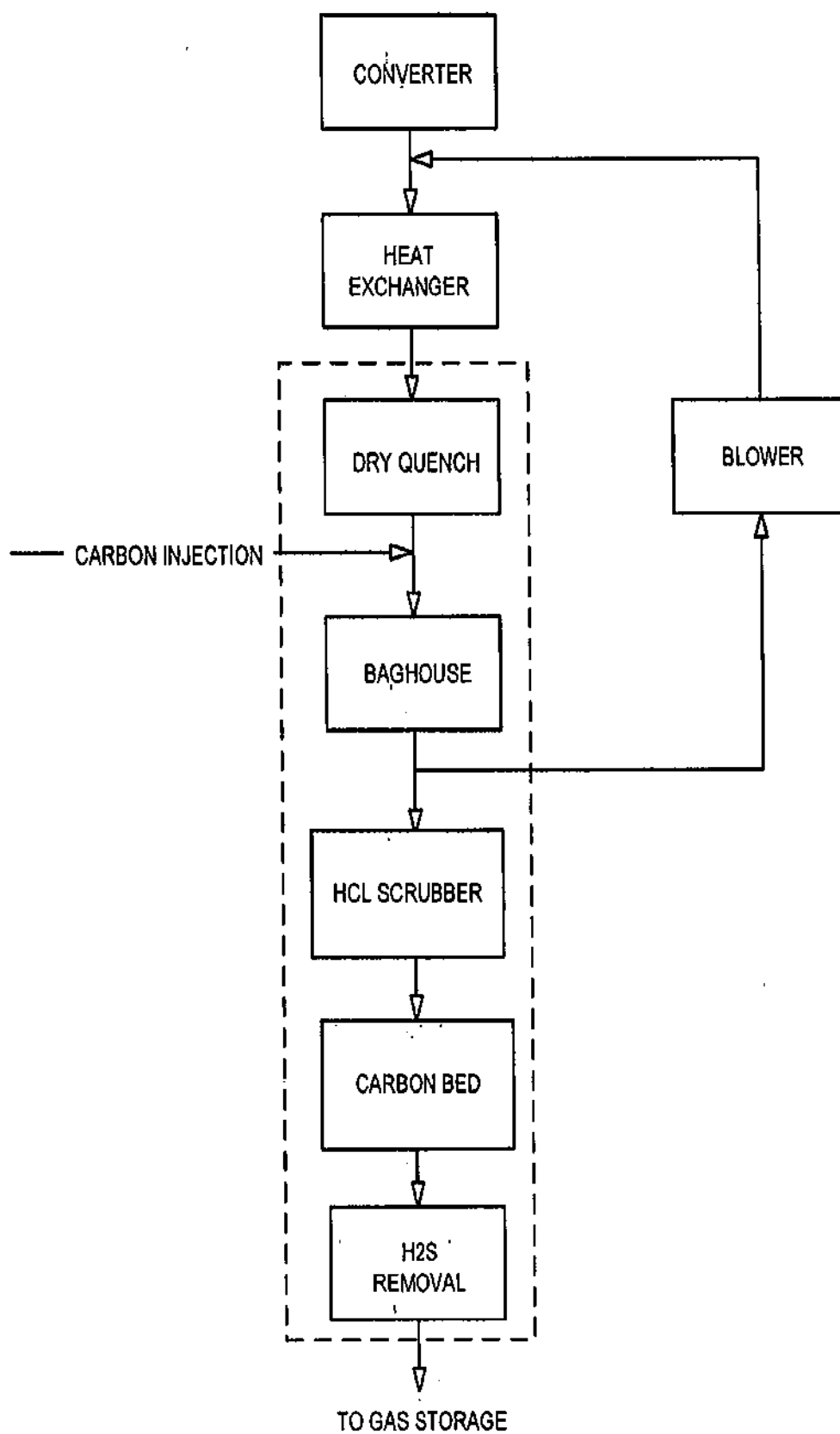


FIGURE 71

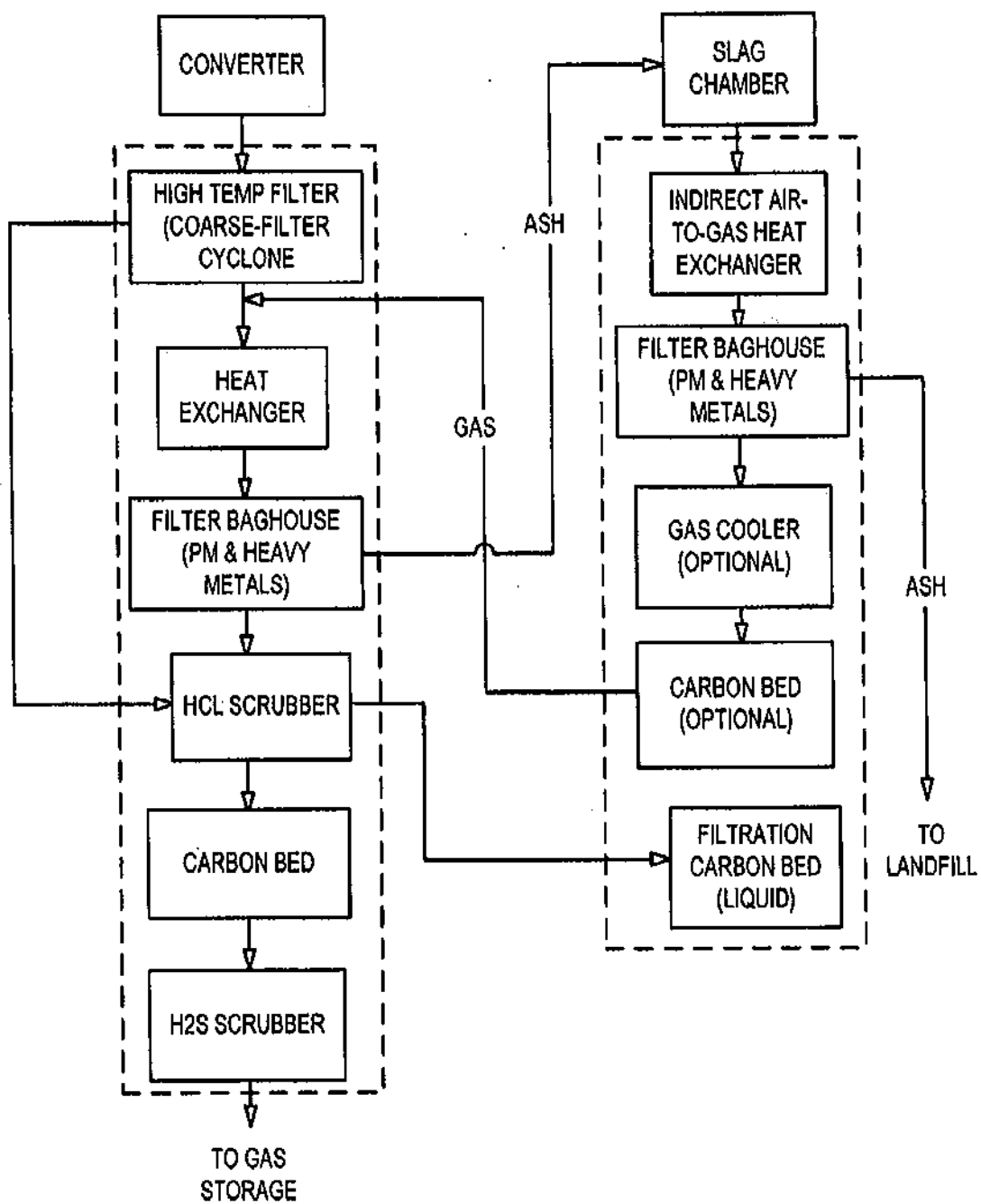


FIGURE 72

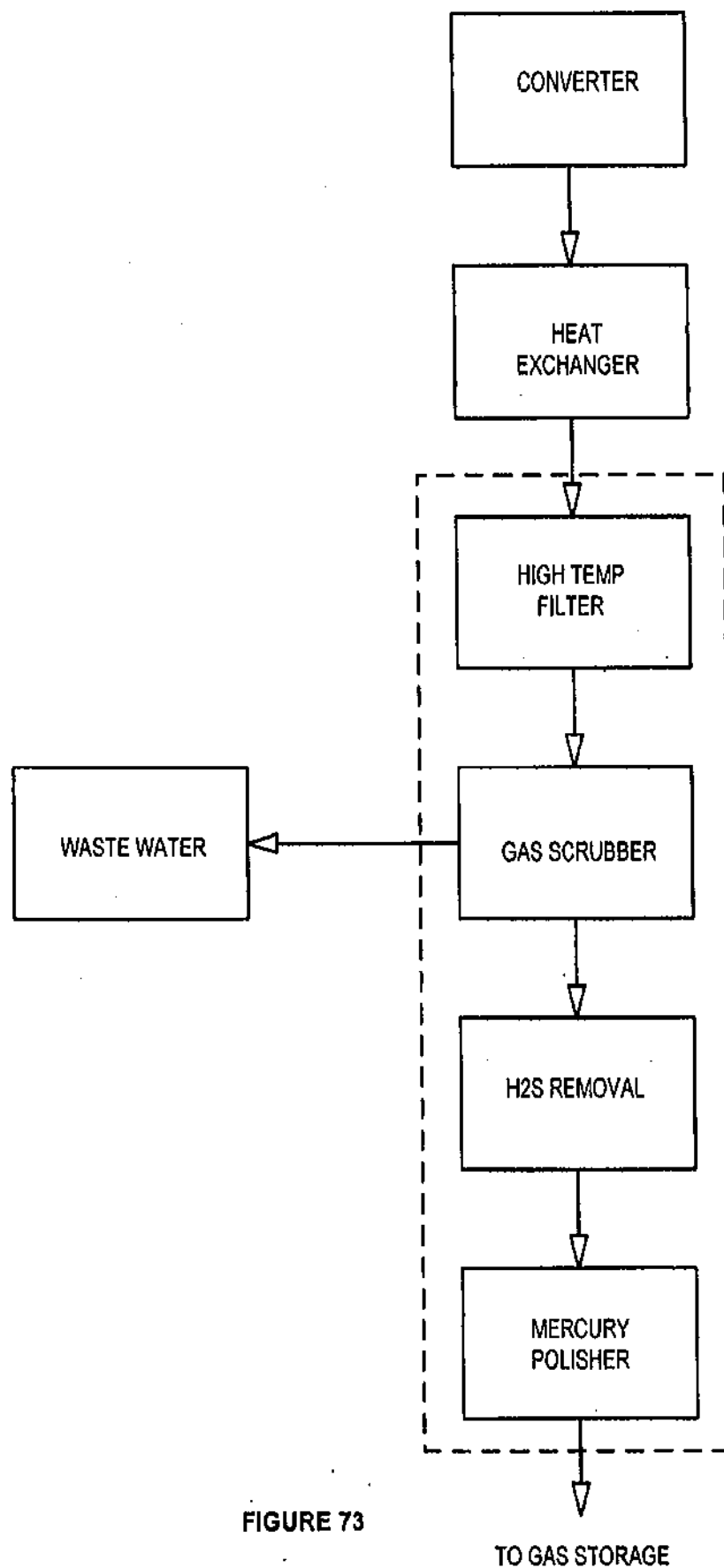


FIGURE 73

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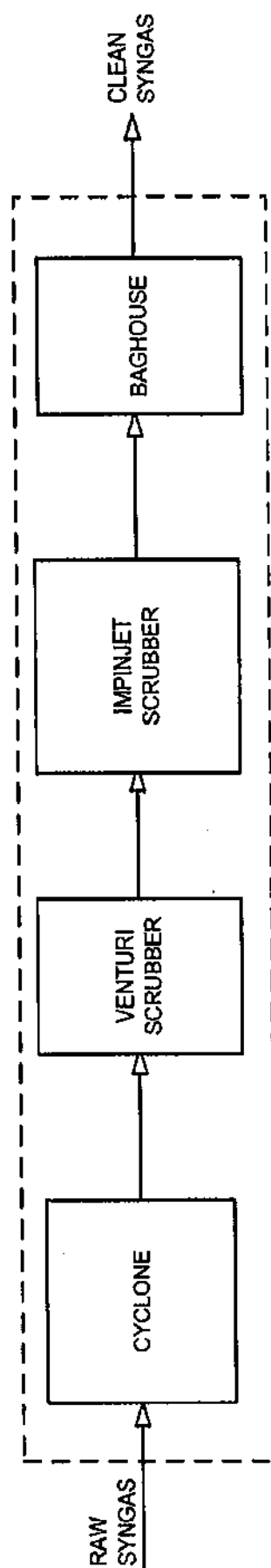


FIGURE 74

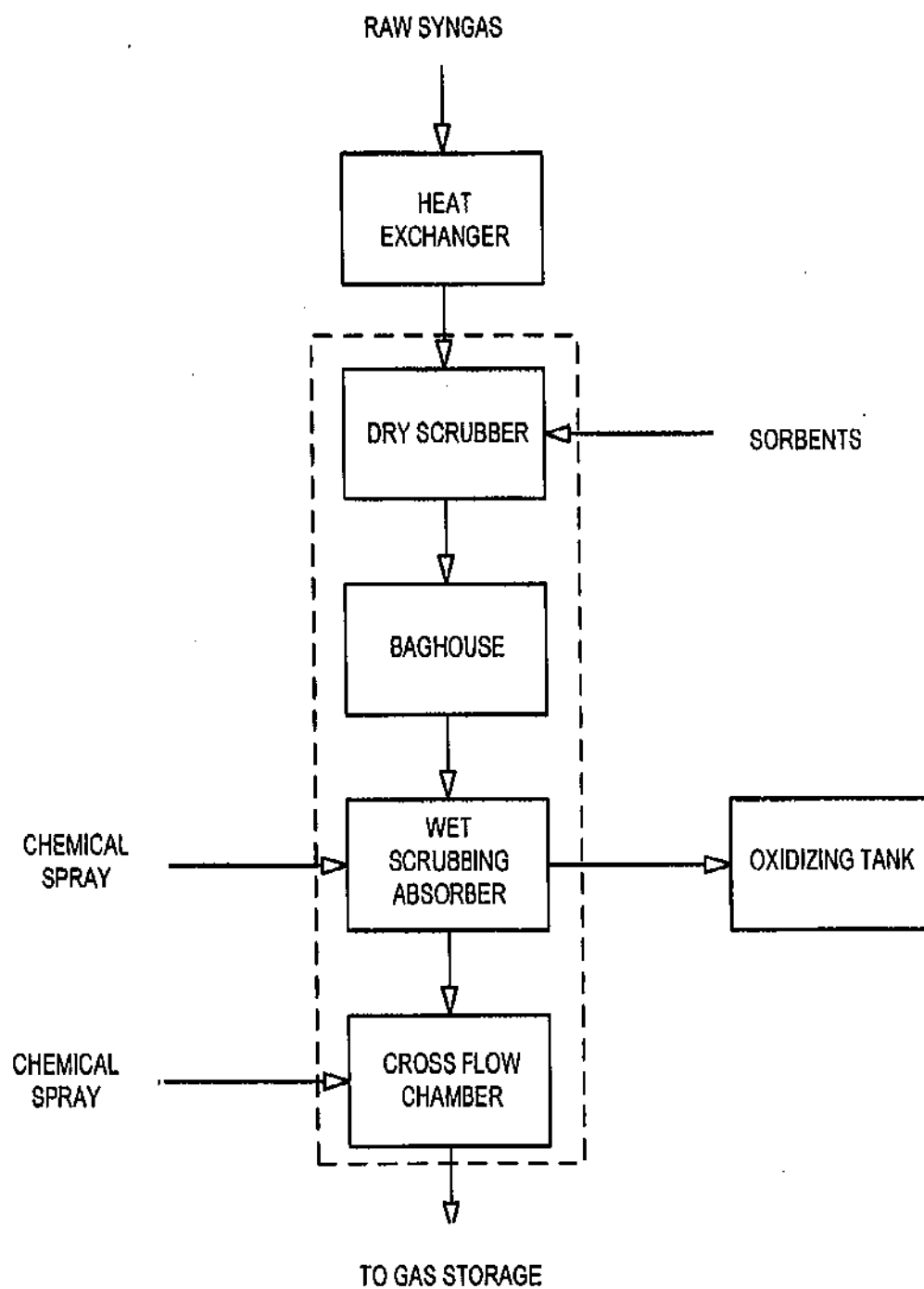


FIGURE 75

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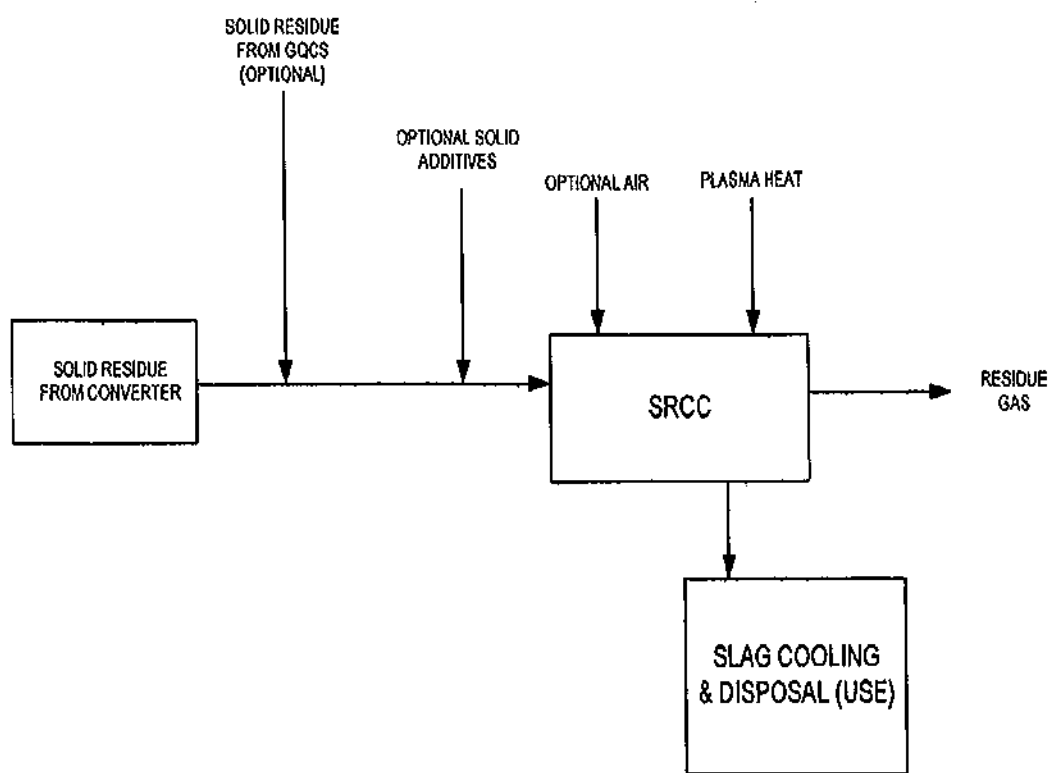


FIGURE 76

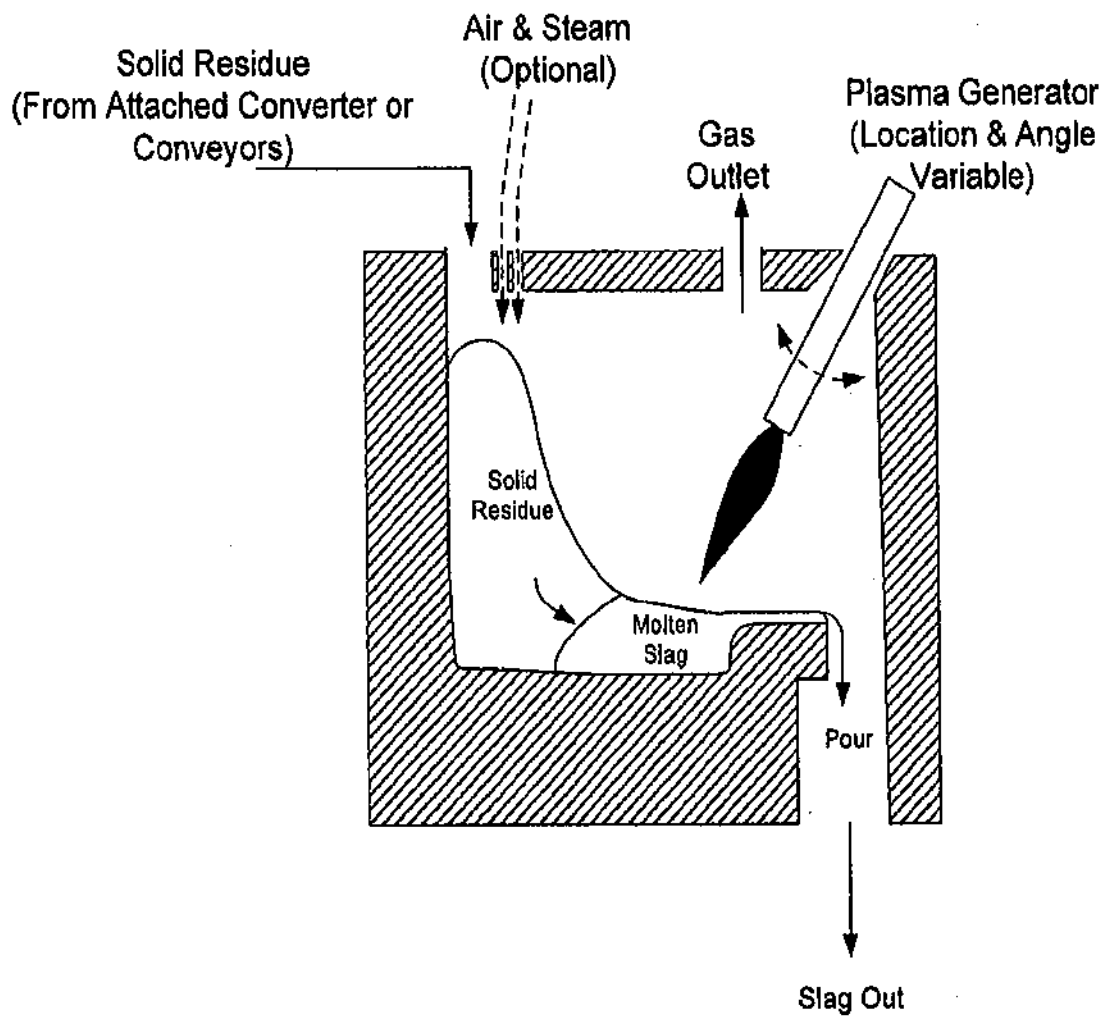
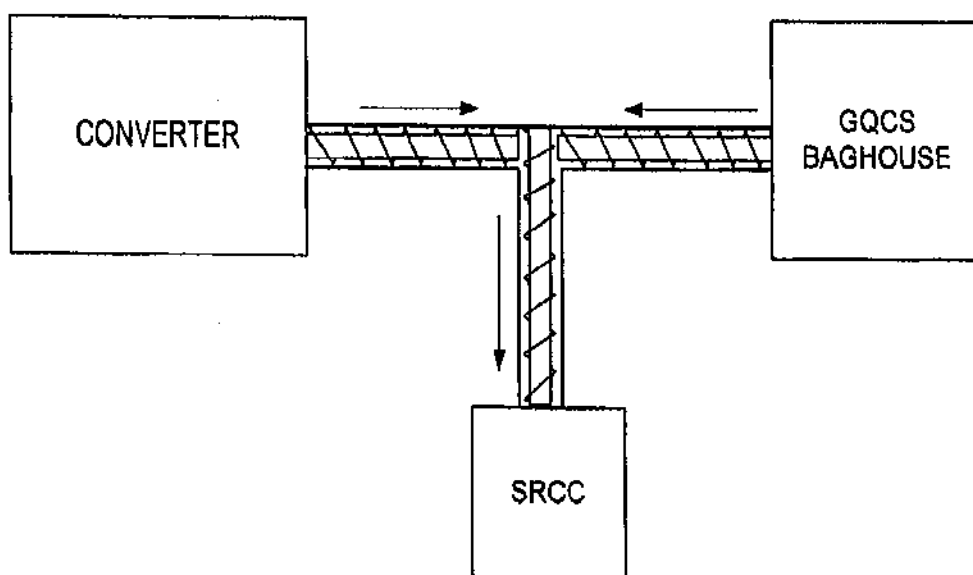


FIGURE 77

A



B

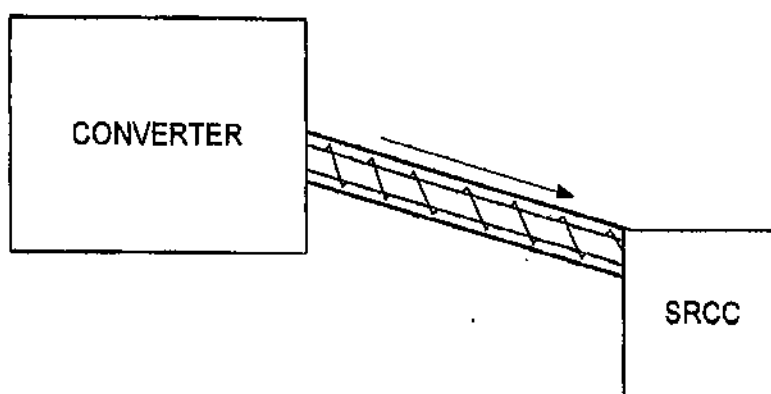


FIGURE 78

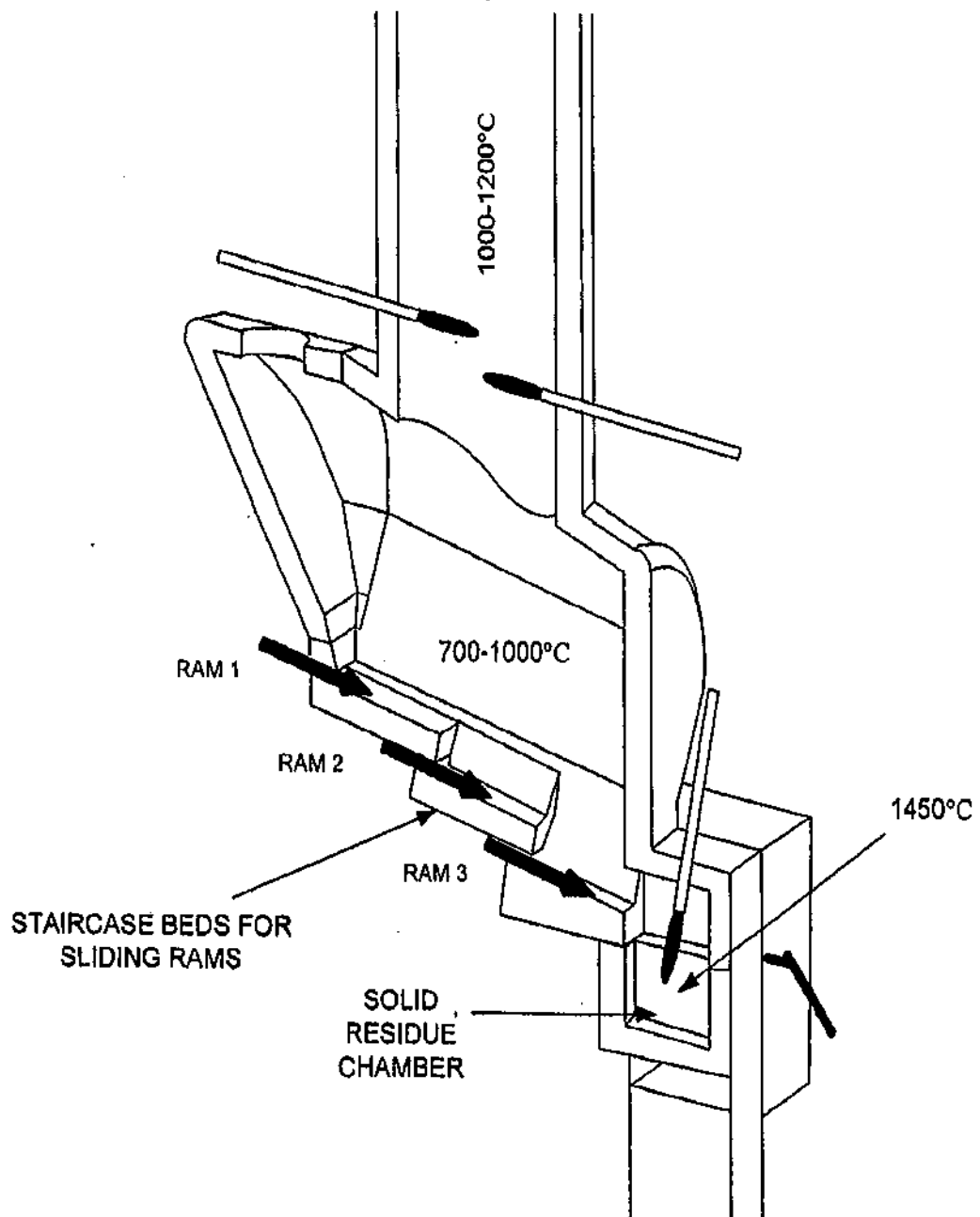


FIGURE 79

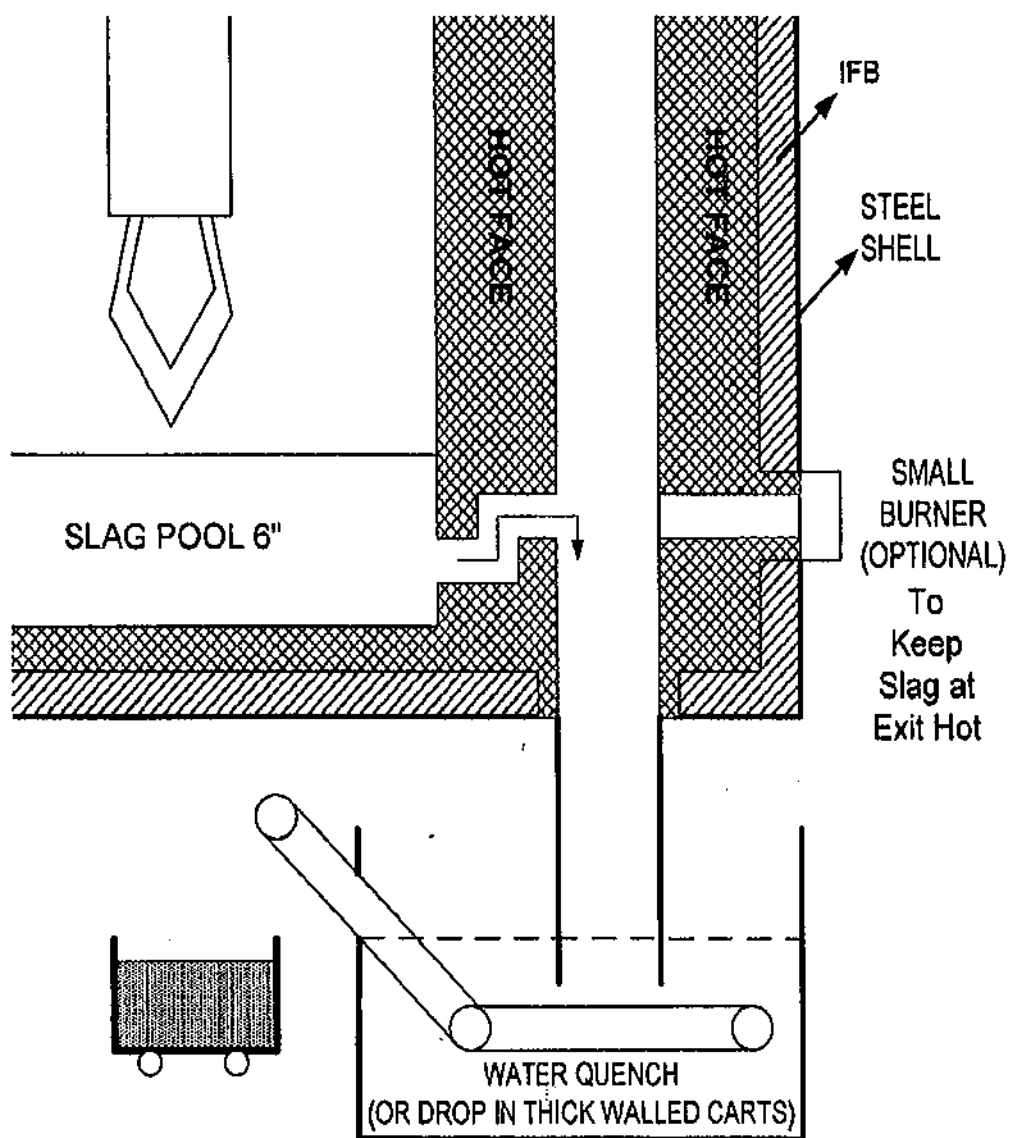


FIGURE 80

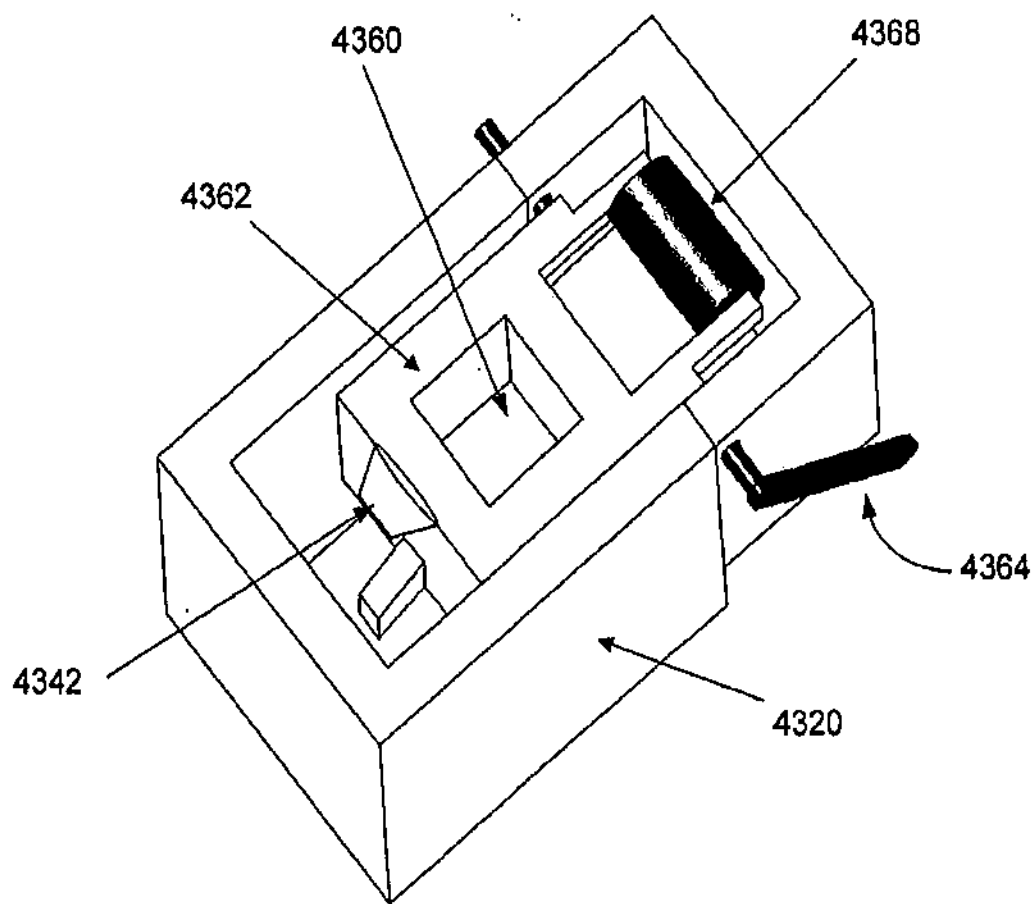


FIGURE 81

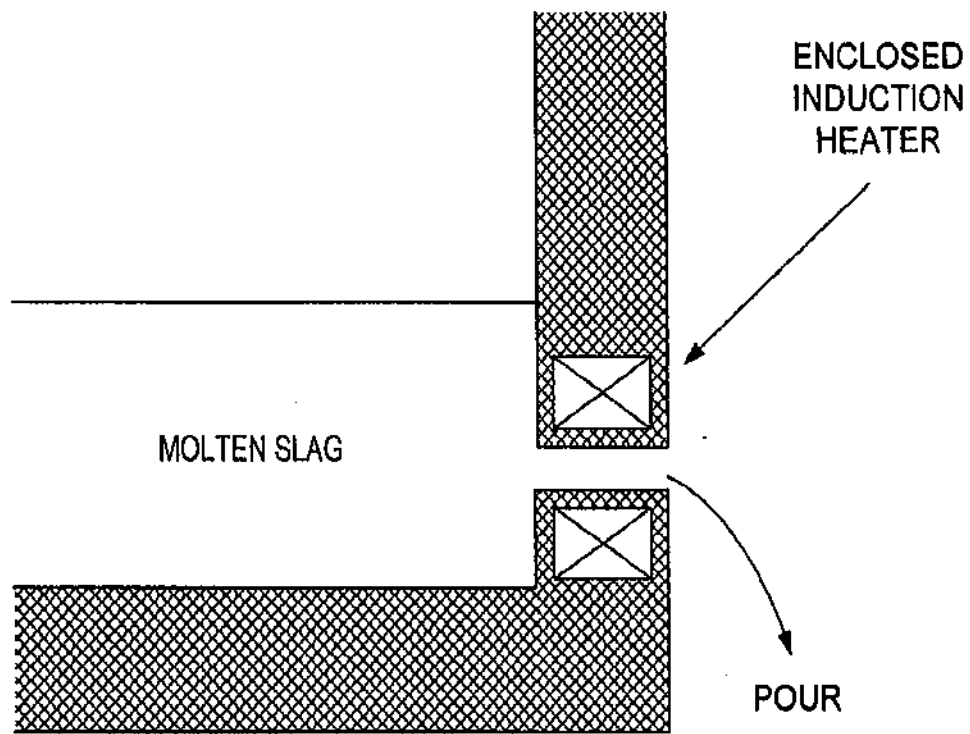


FIGURE 82

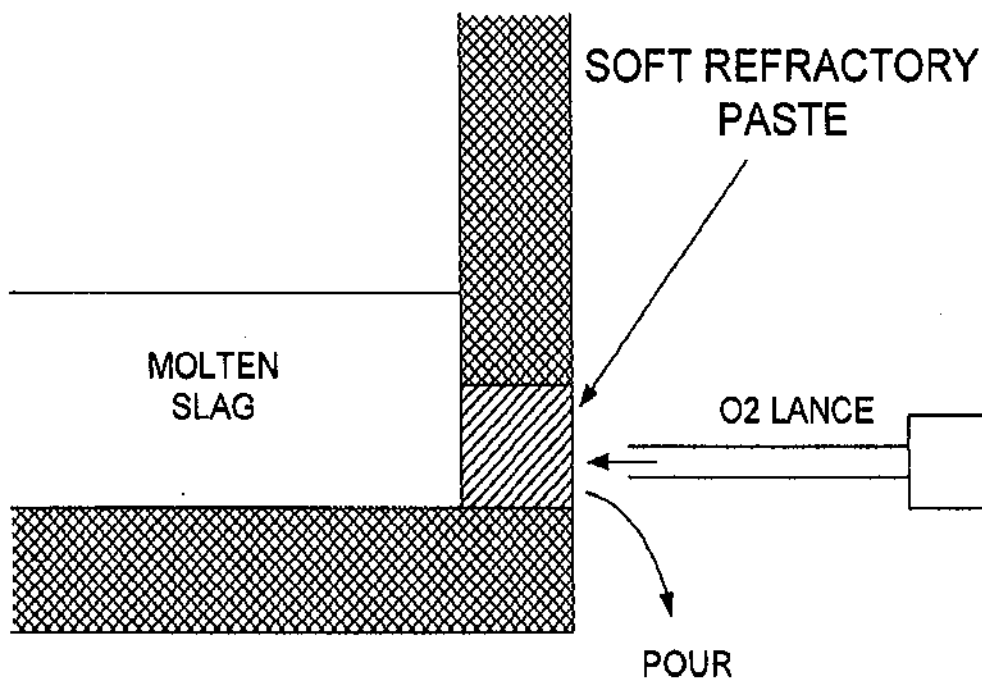


FIGURE 83

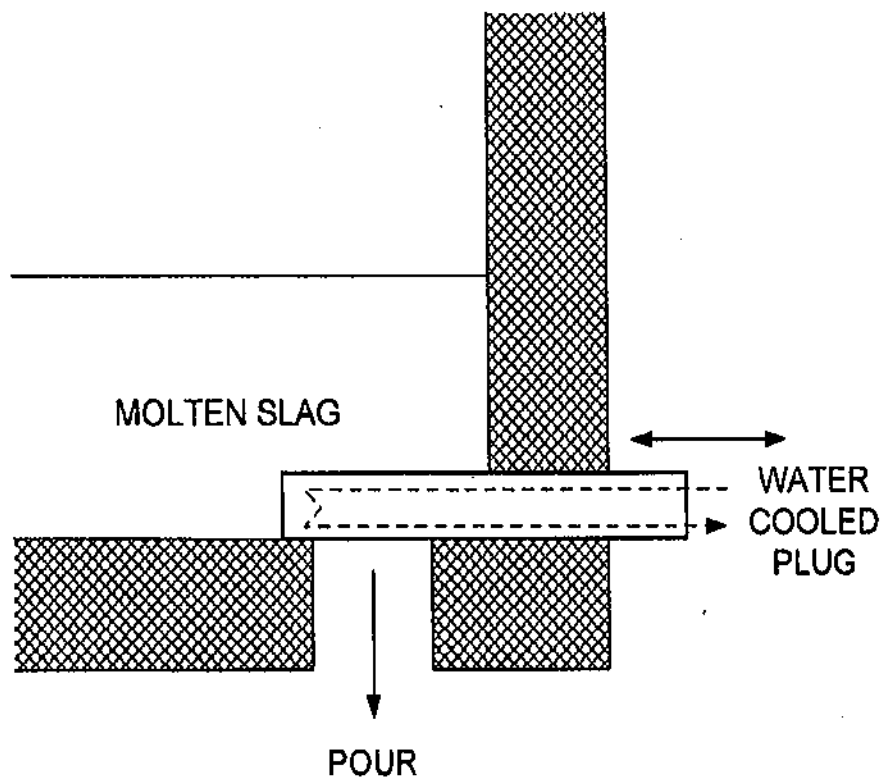


FIGURE 84

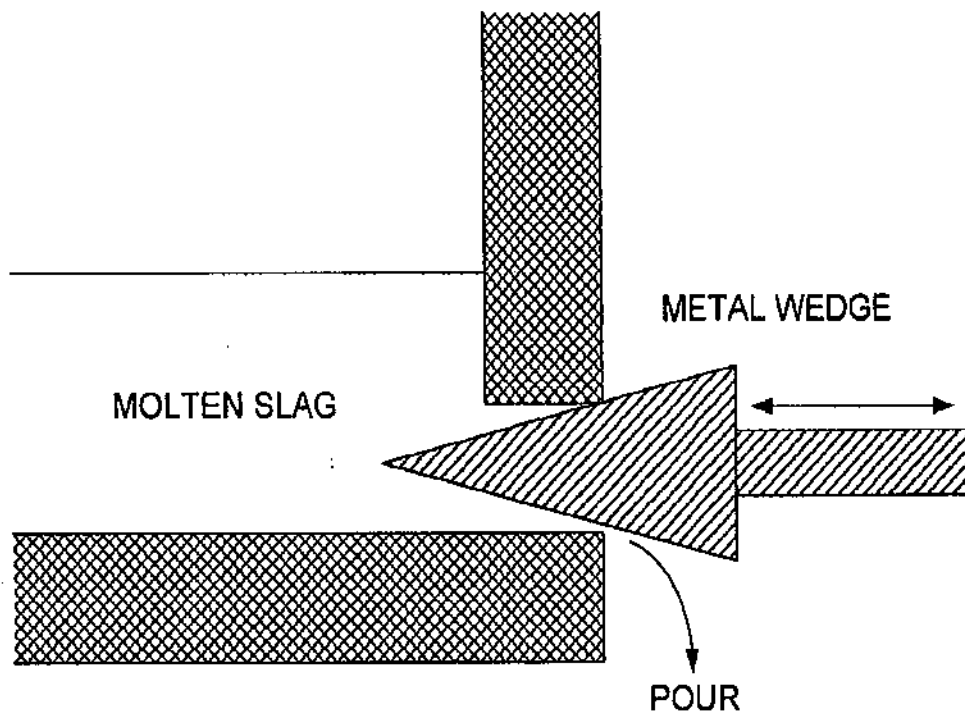


FIGURE 85

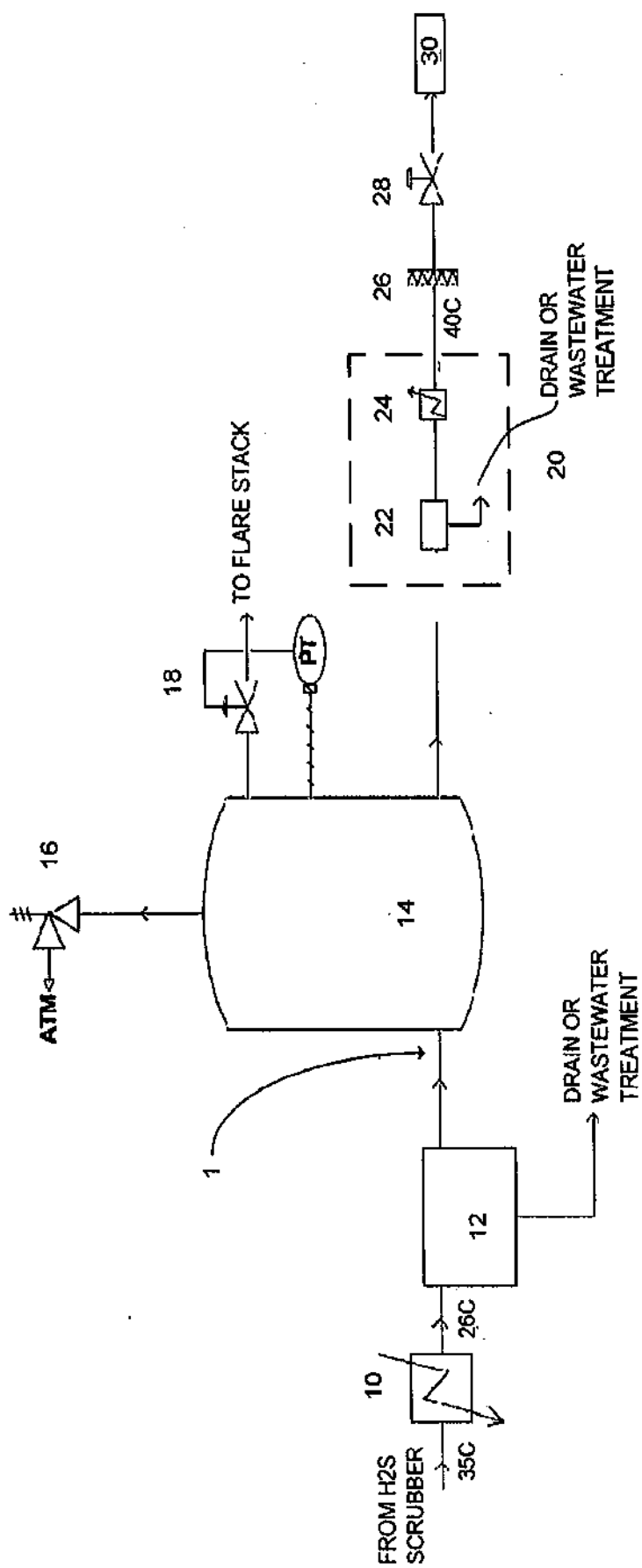


FIGURE 86

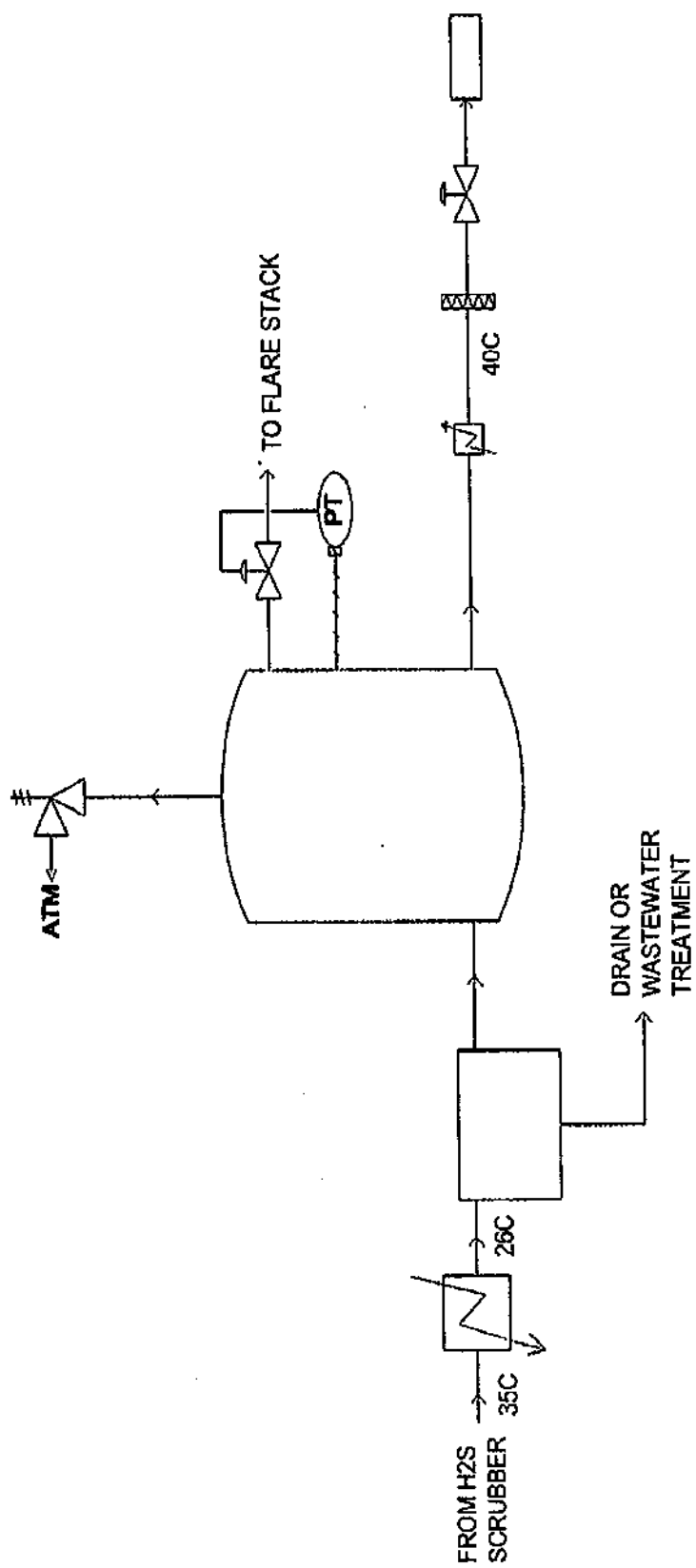


FIGURE 87

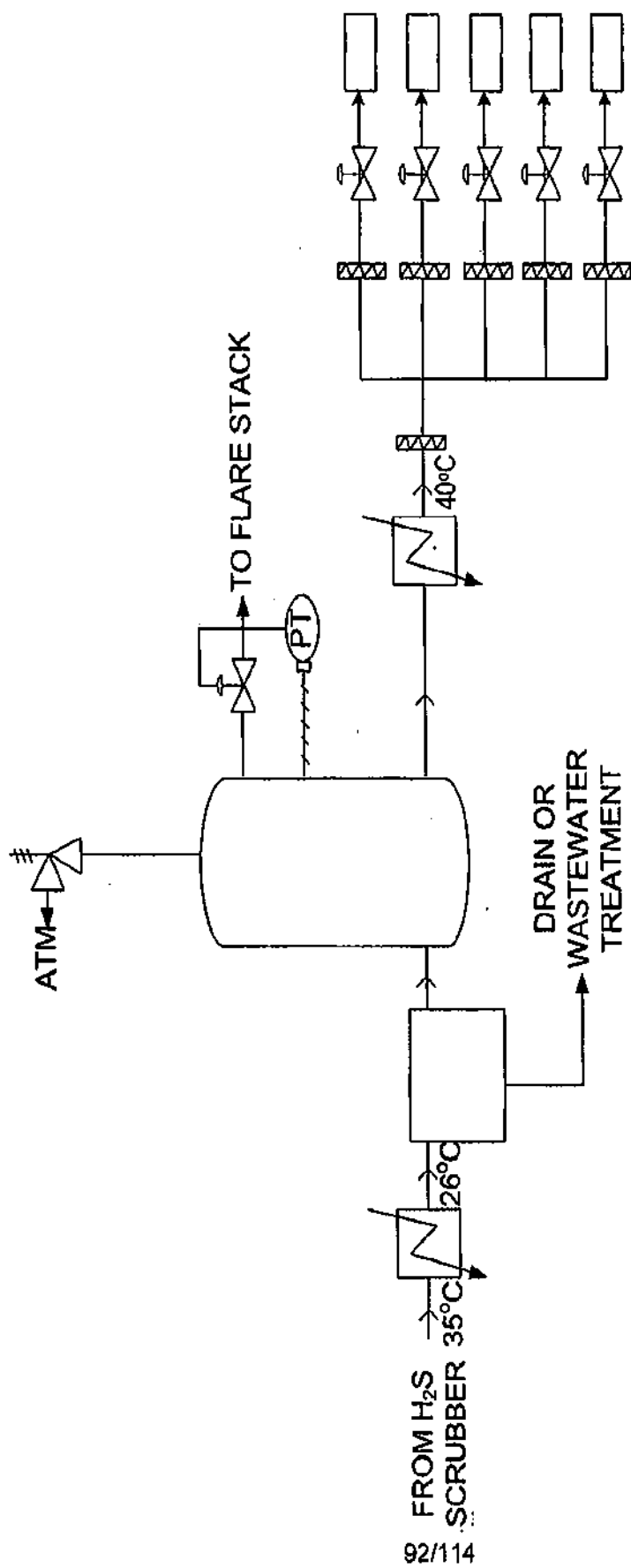


FIGURE 88

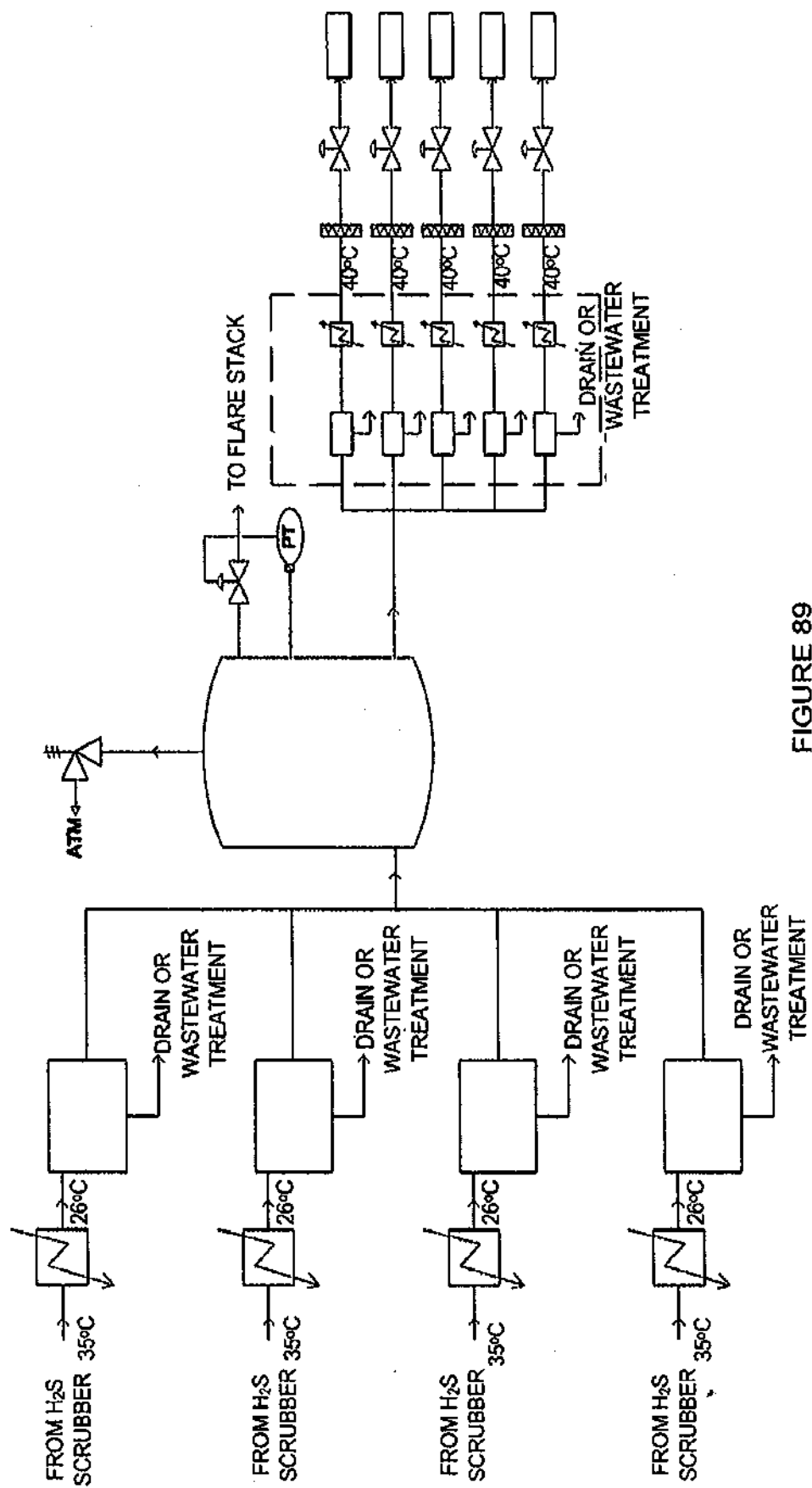


FIGURE 89

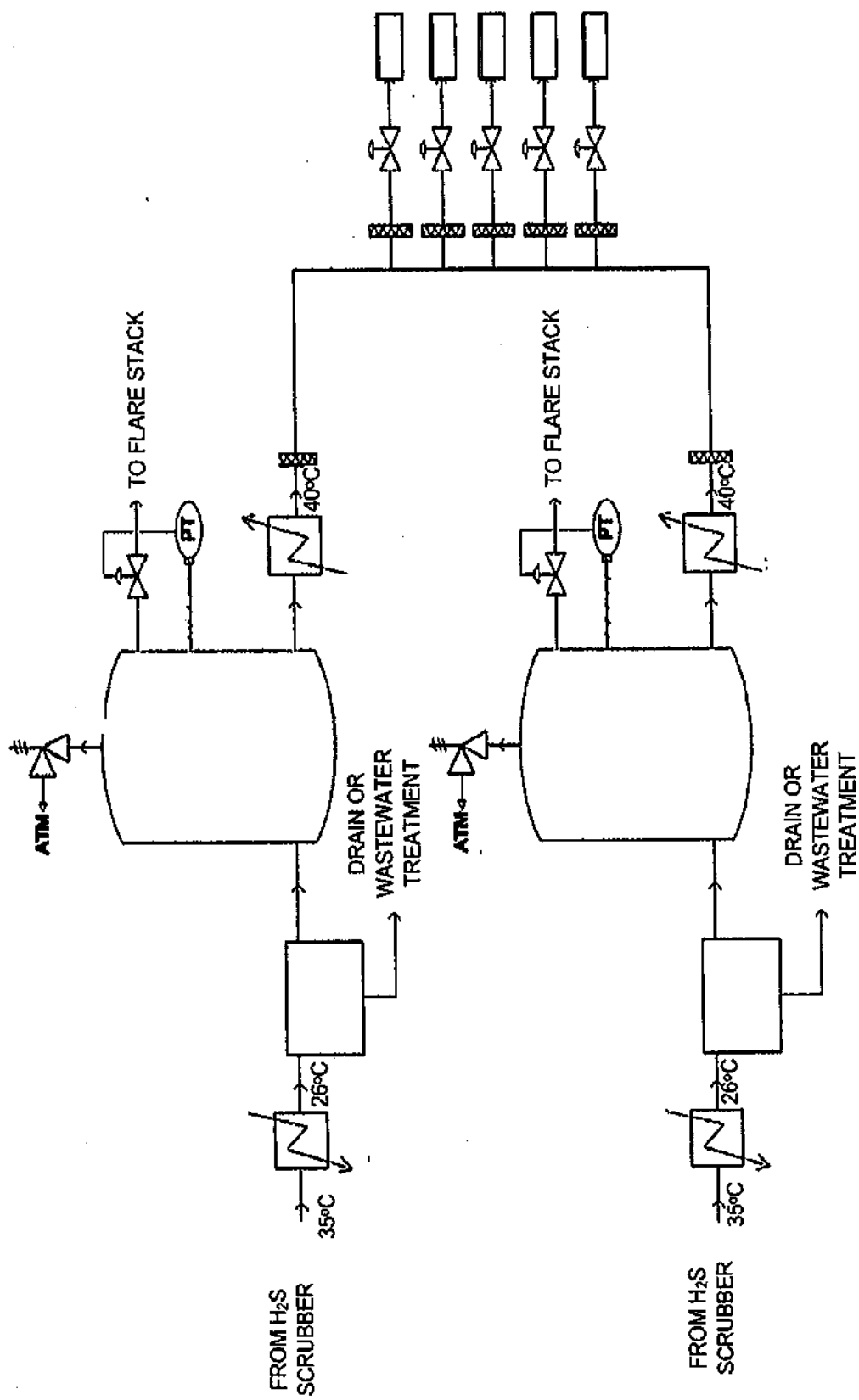


FIGURE 90

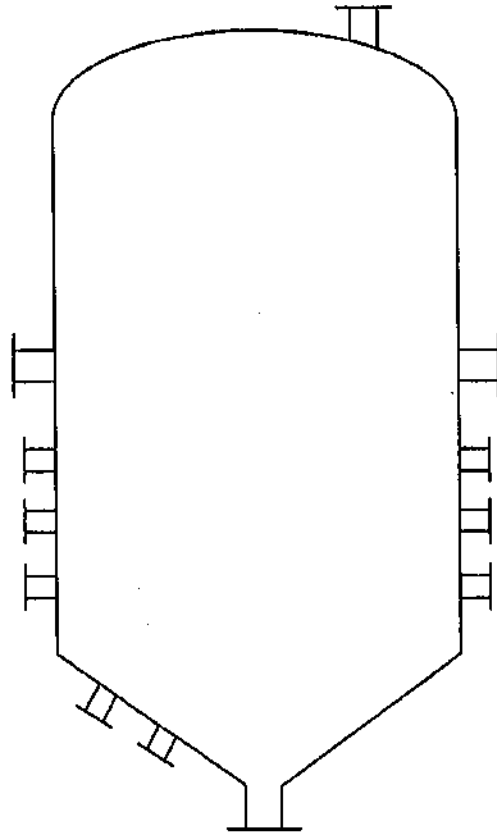


FIGURE 91

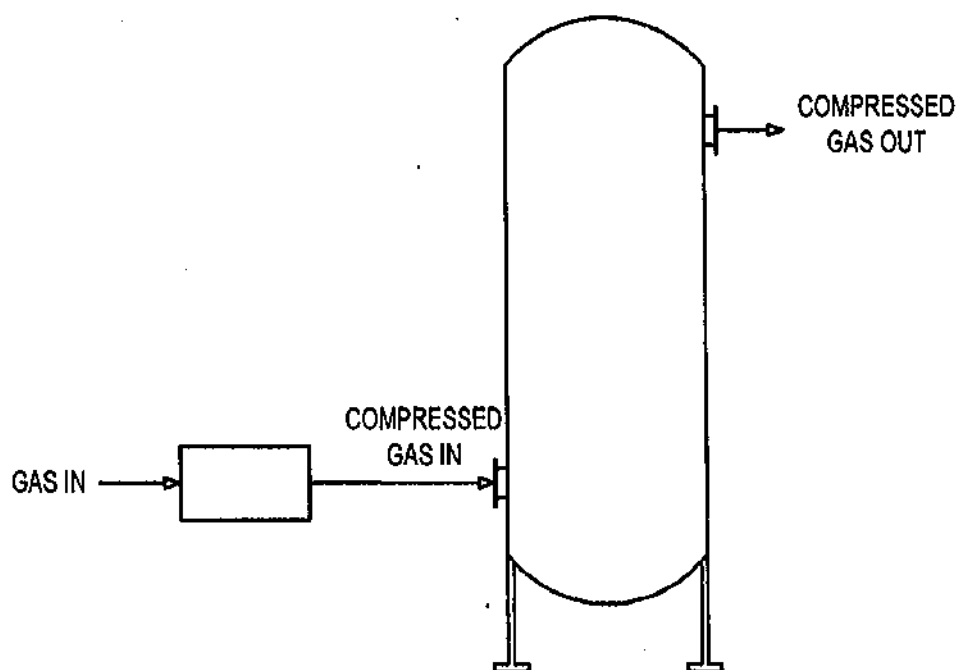


FIGURE 92

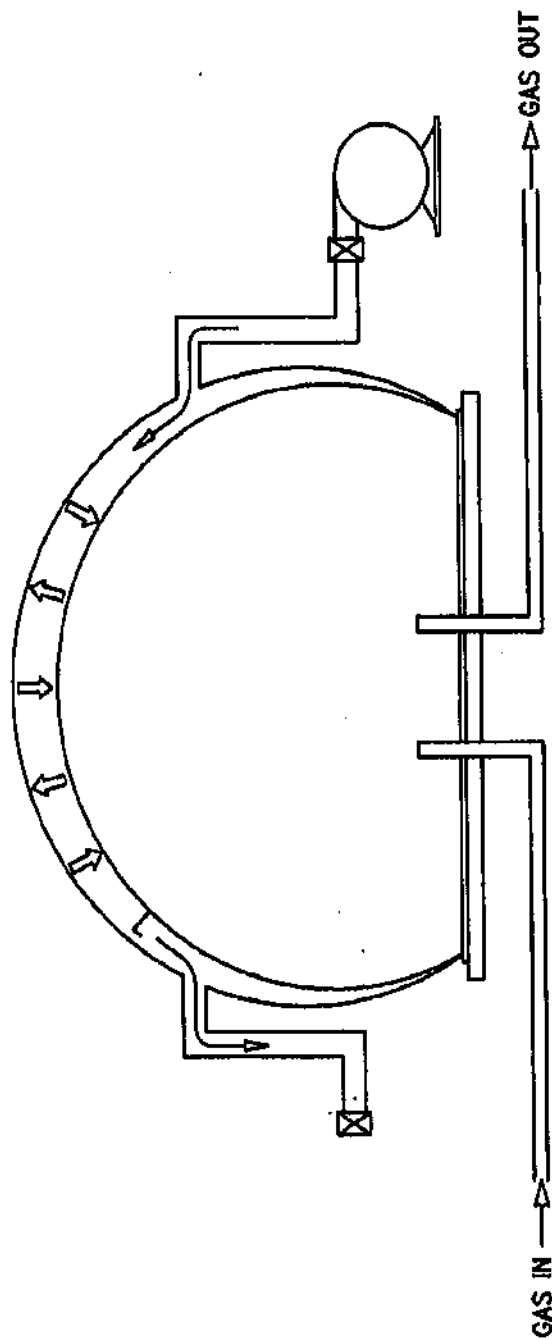


FIGURE 93

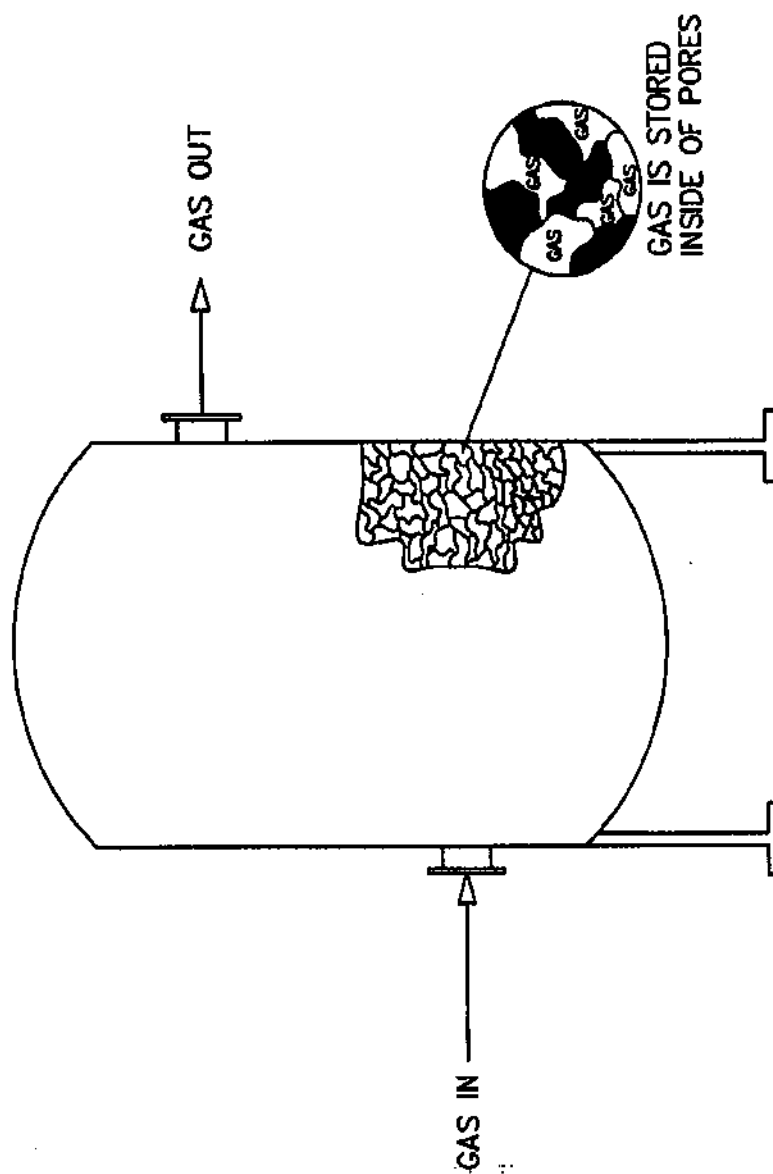


FIGURE 94

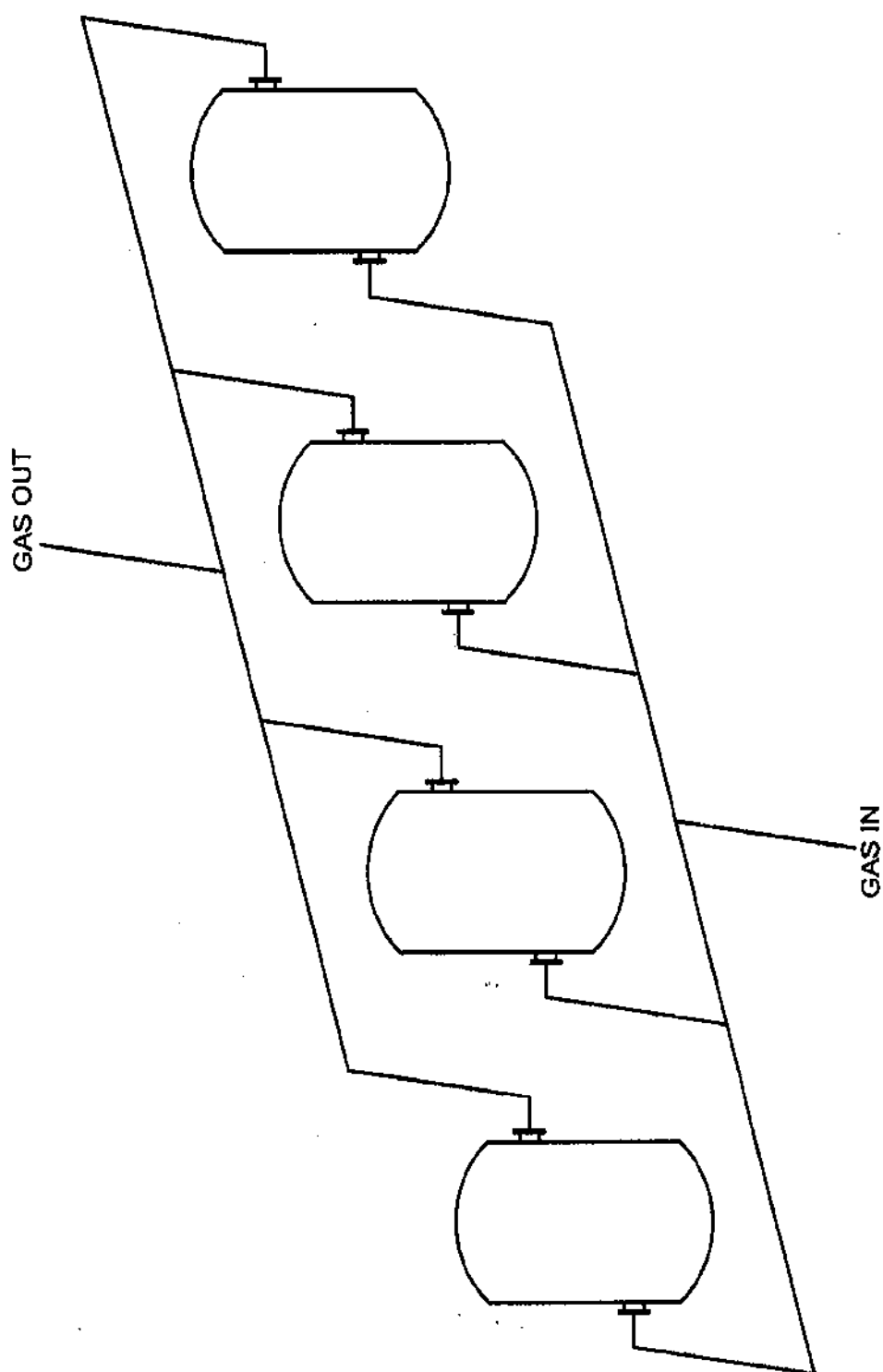


FIGURE 95

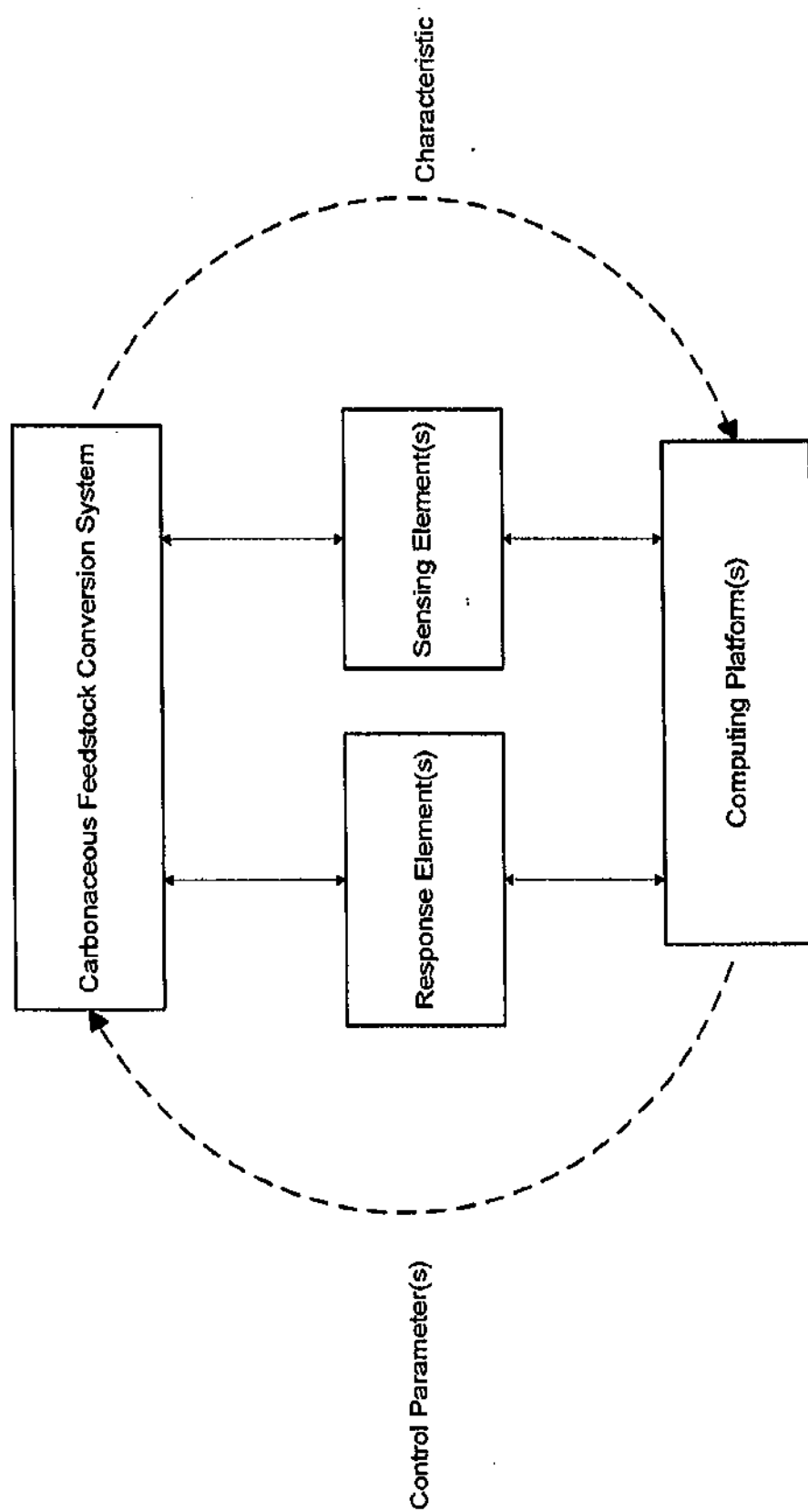


FIGURE 96

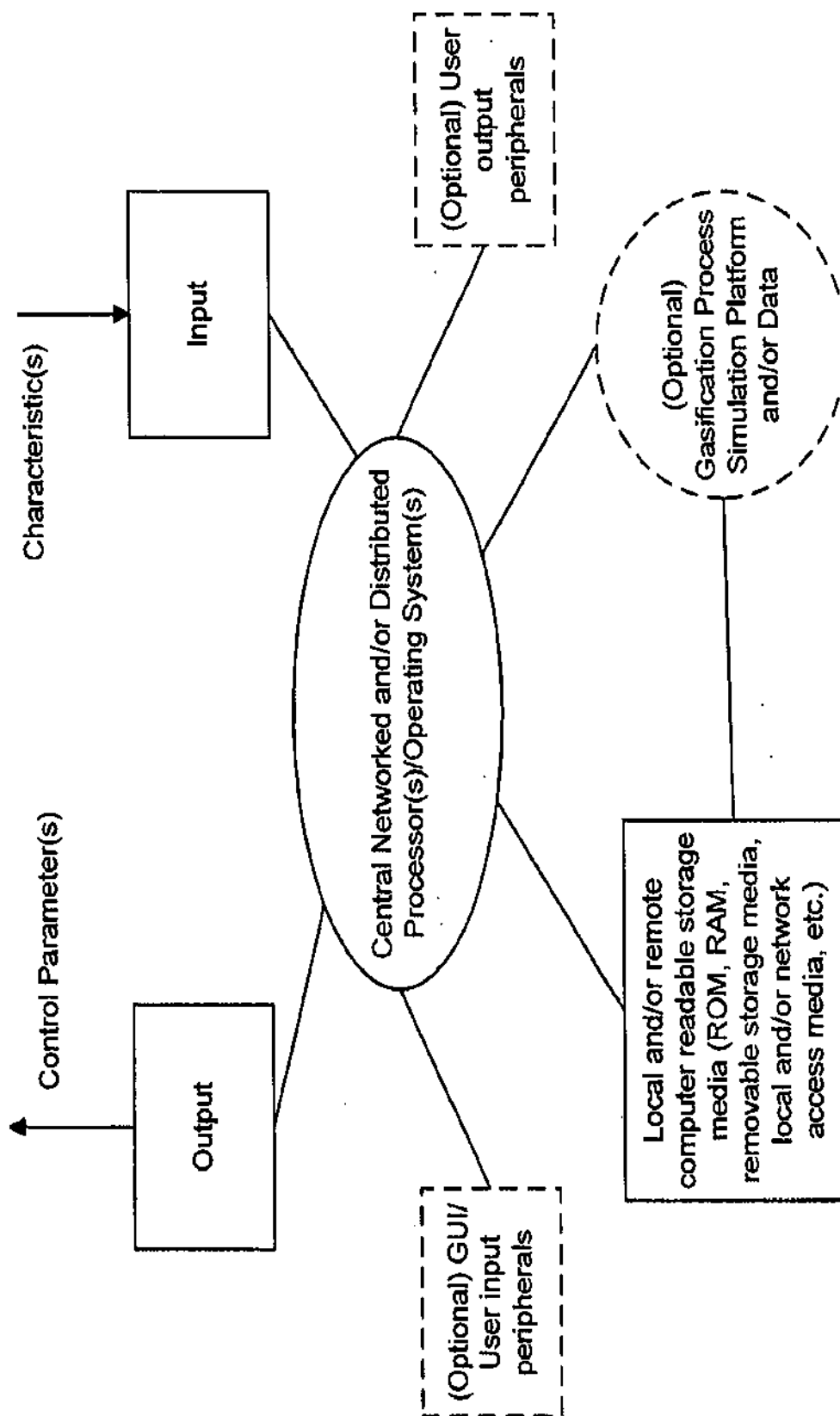


FIGURE 97

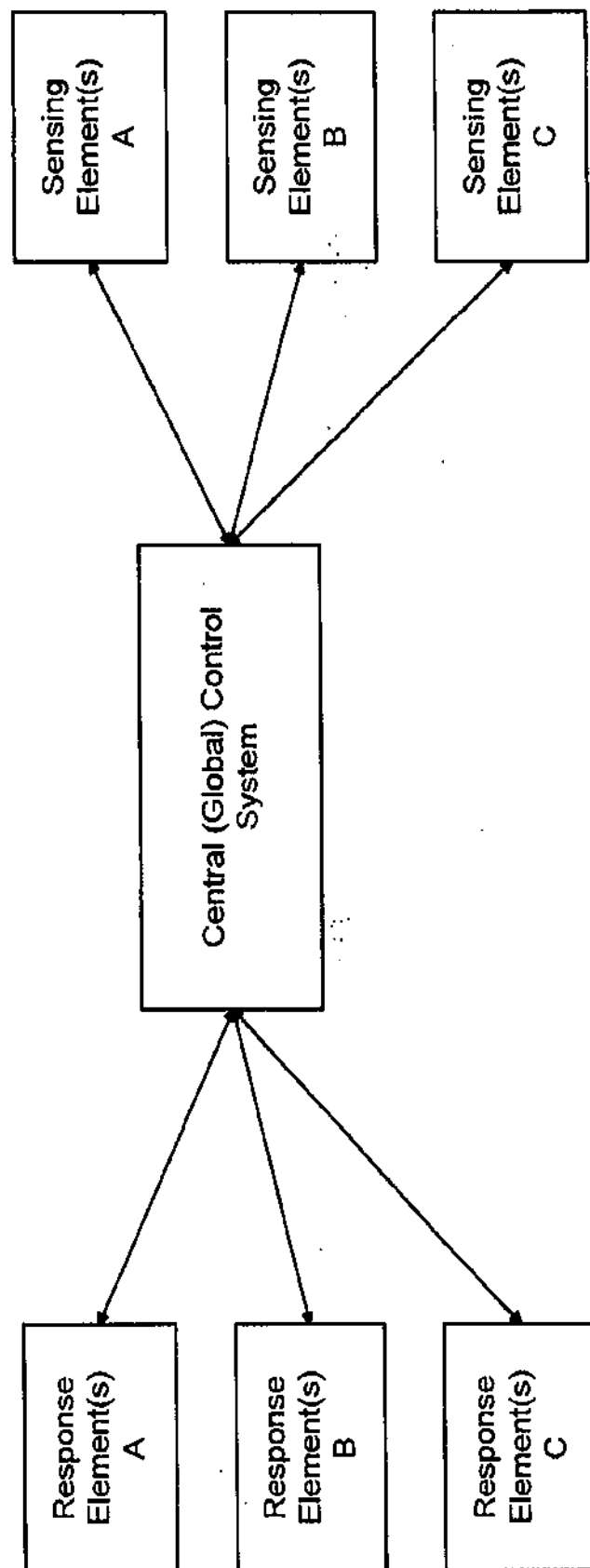


FIGURE 98

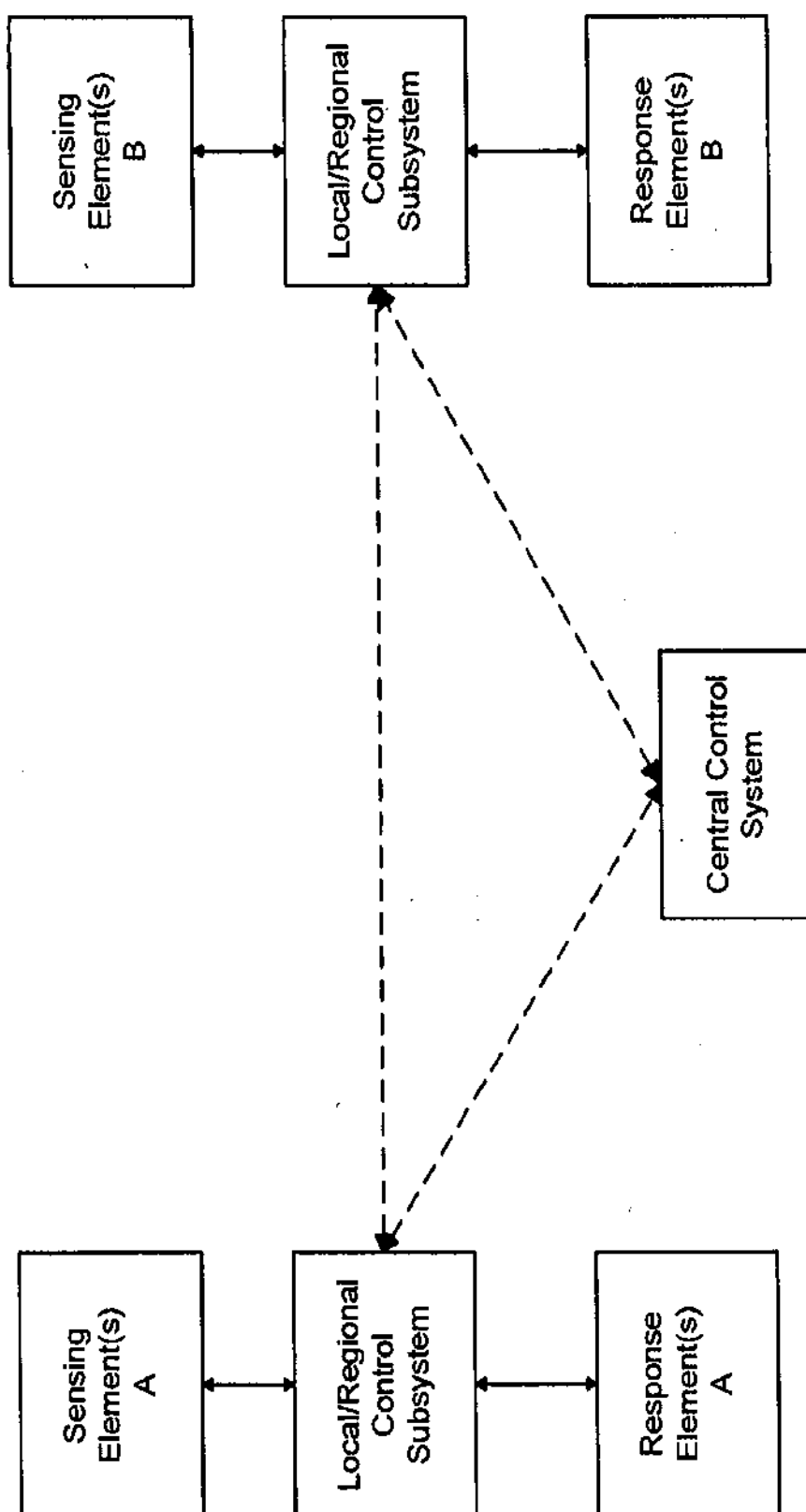


FIGURE 99

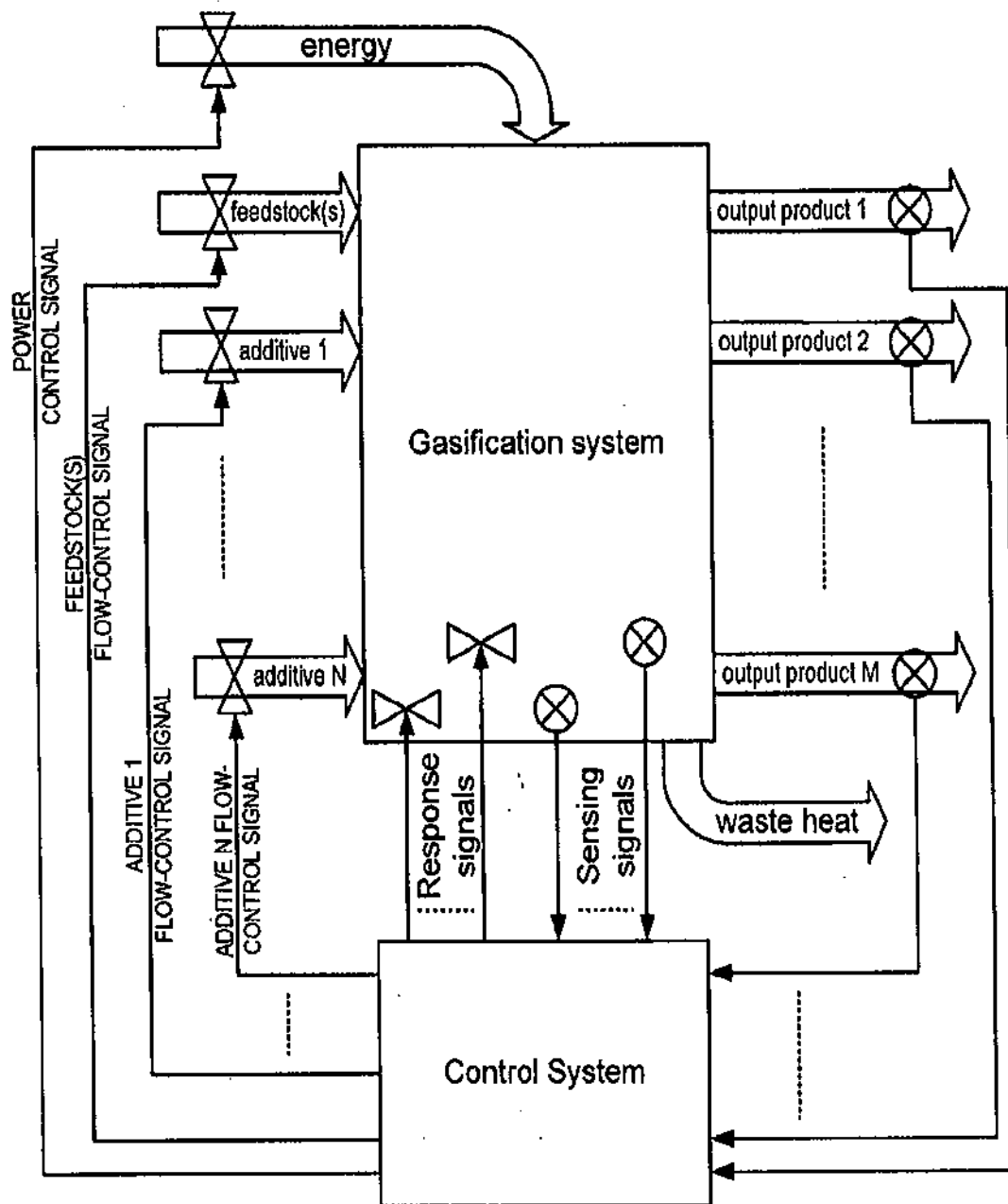


FIGURE 100

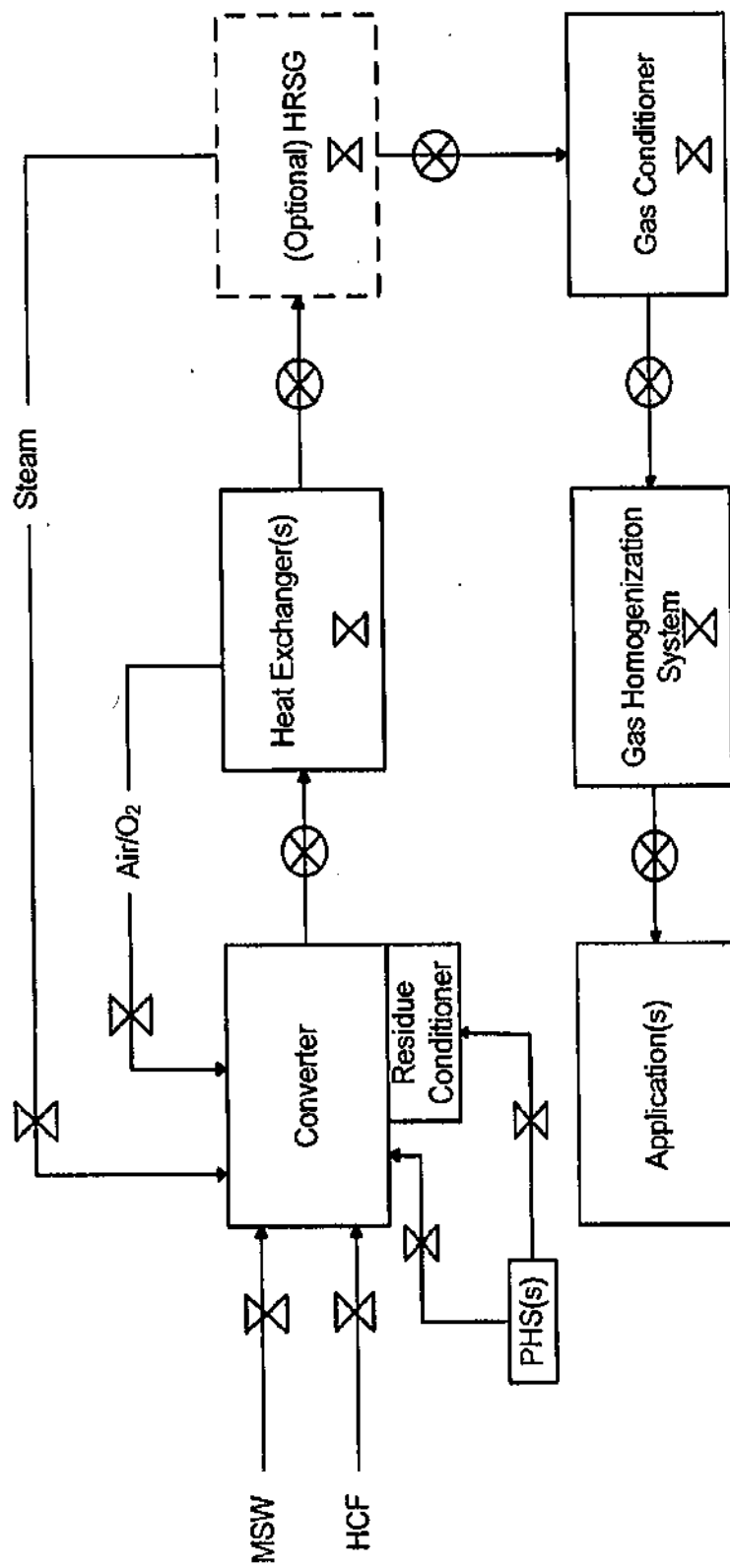


FIGURE 101

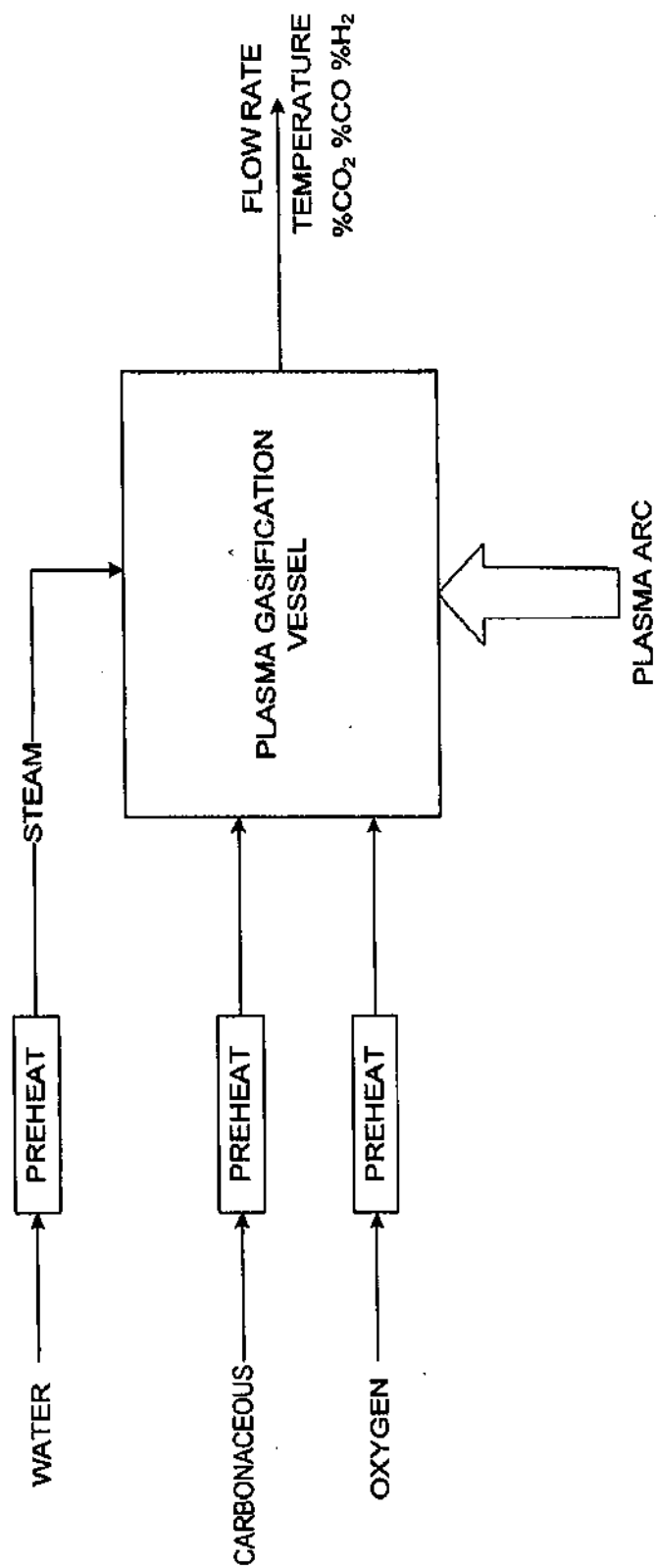


FIGURE 102

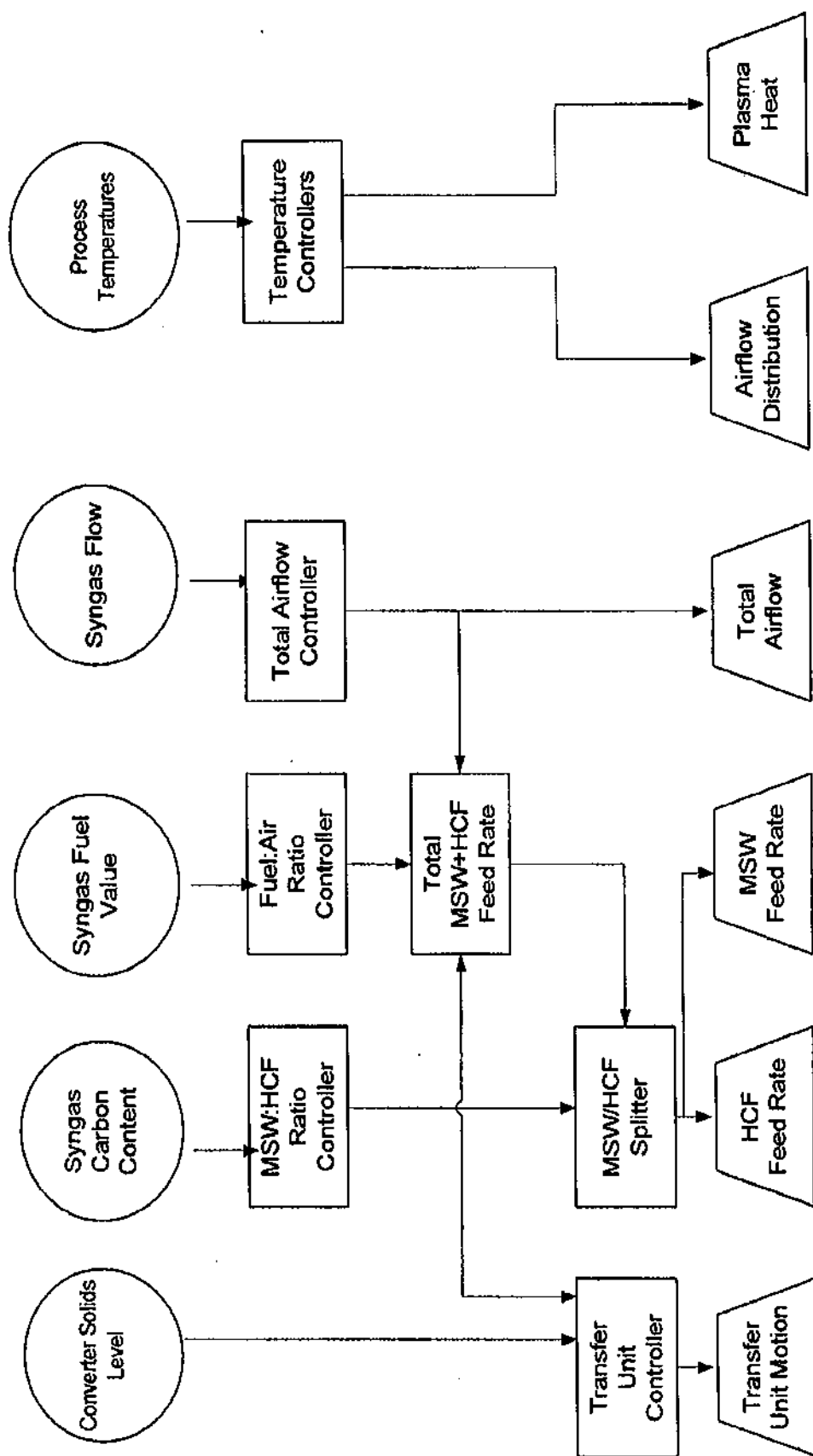


FIGURE 103

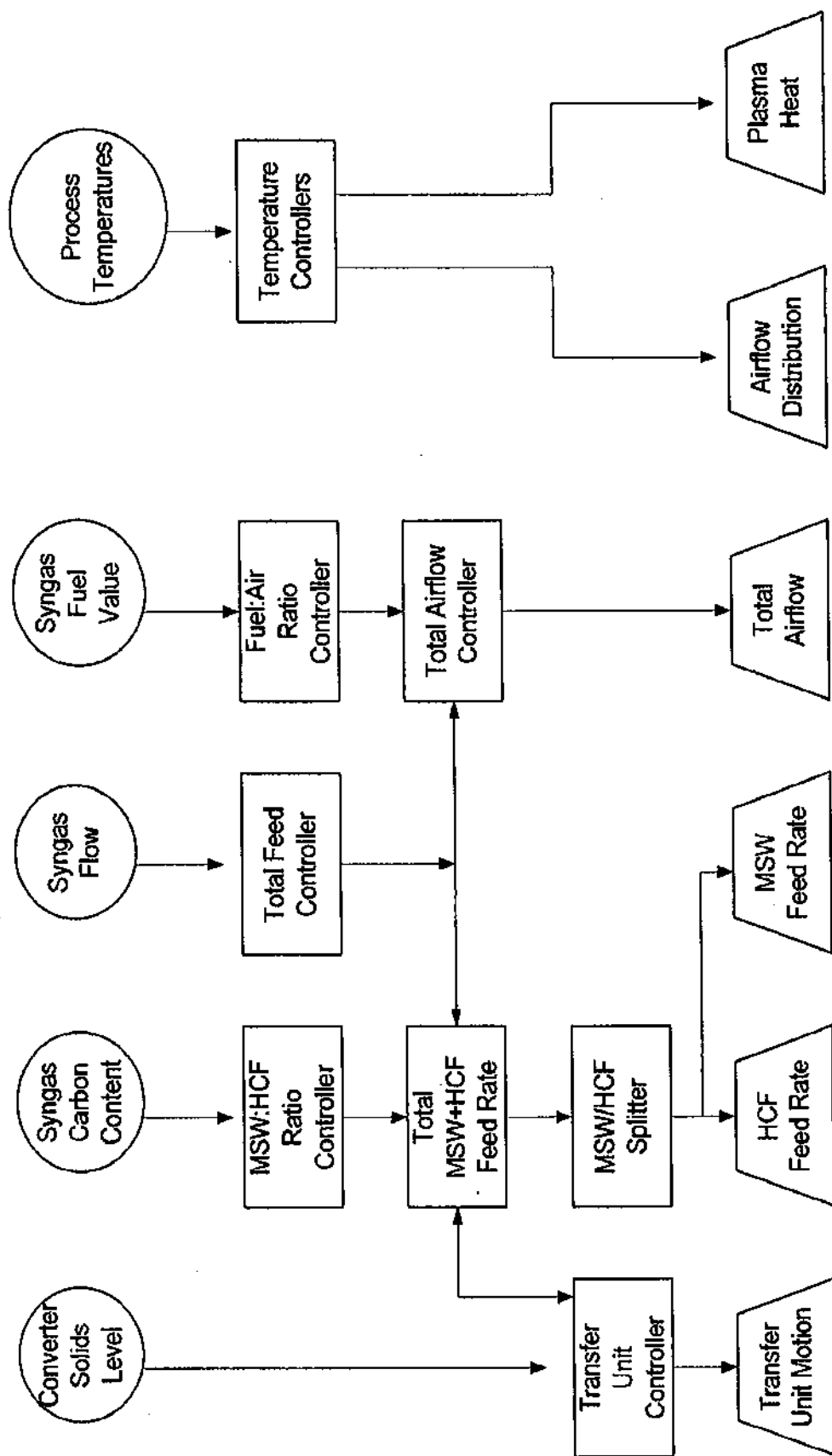


FIGURE 104

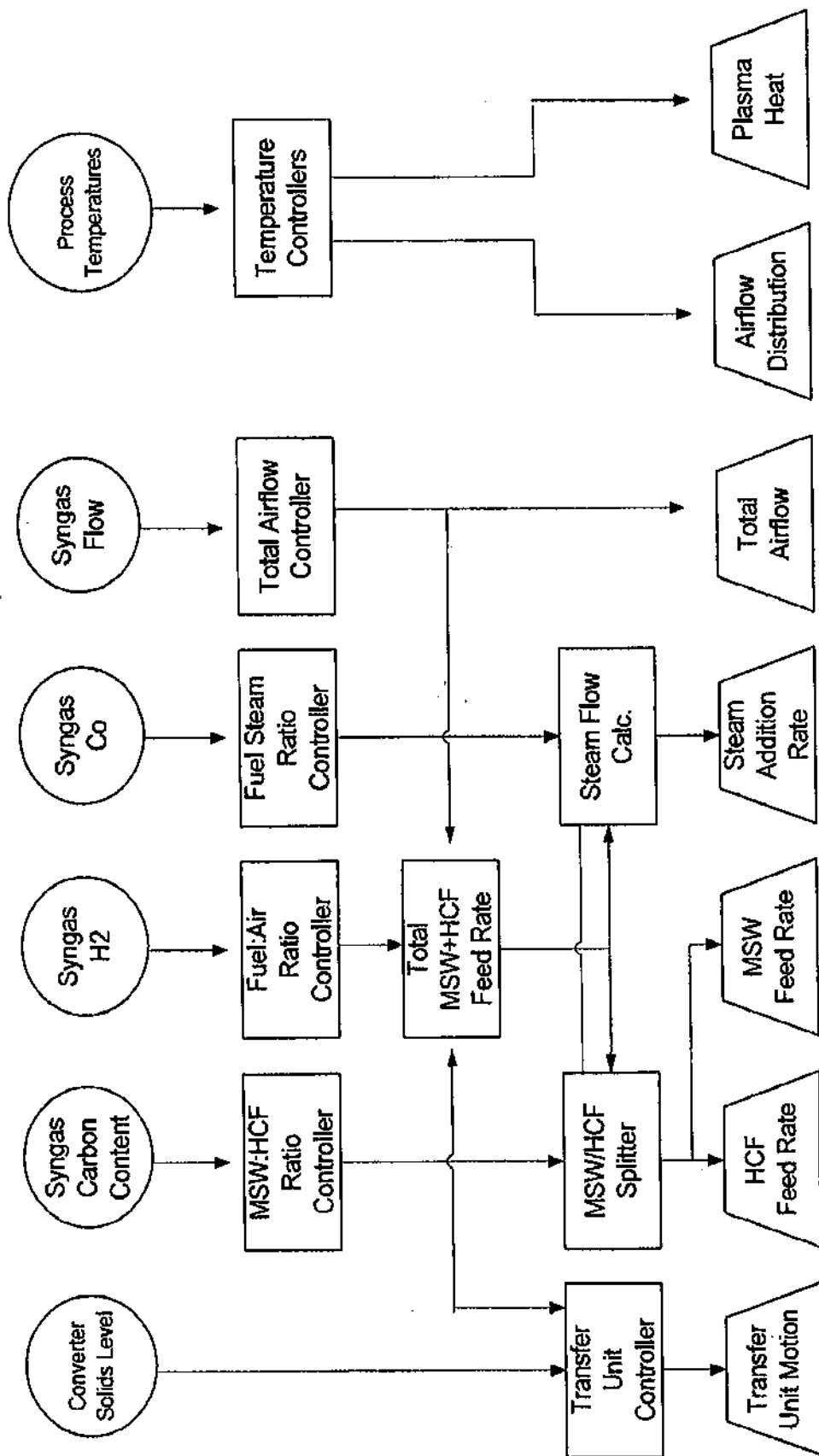


FIGURE 105

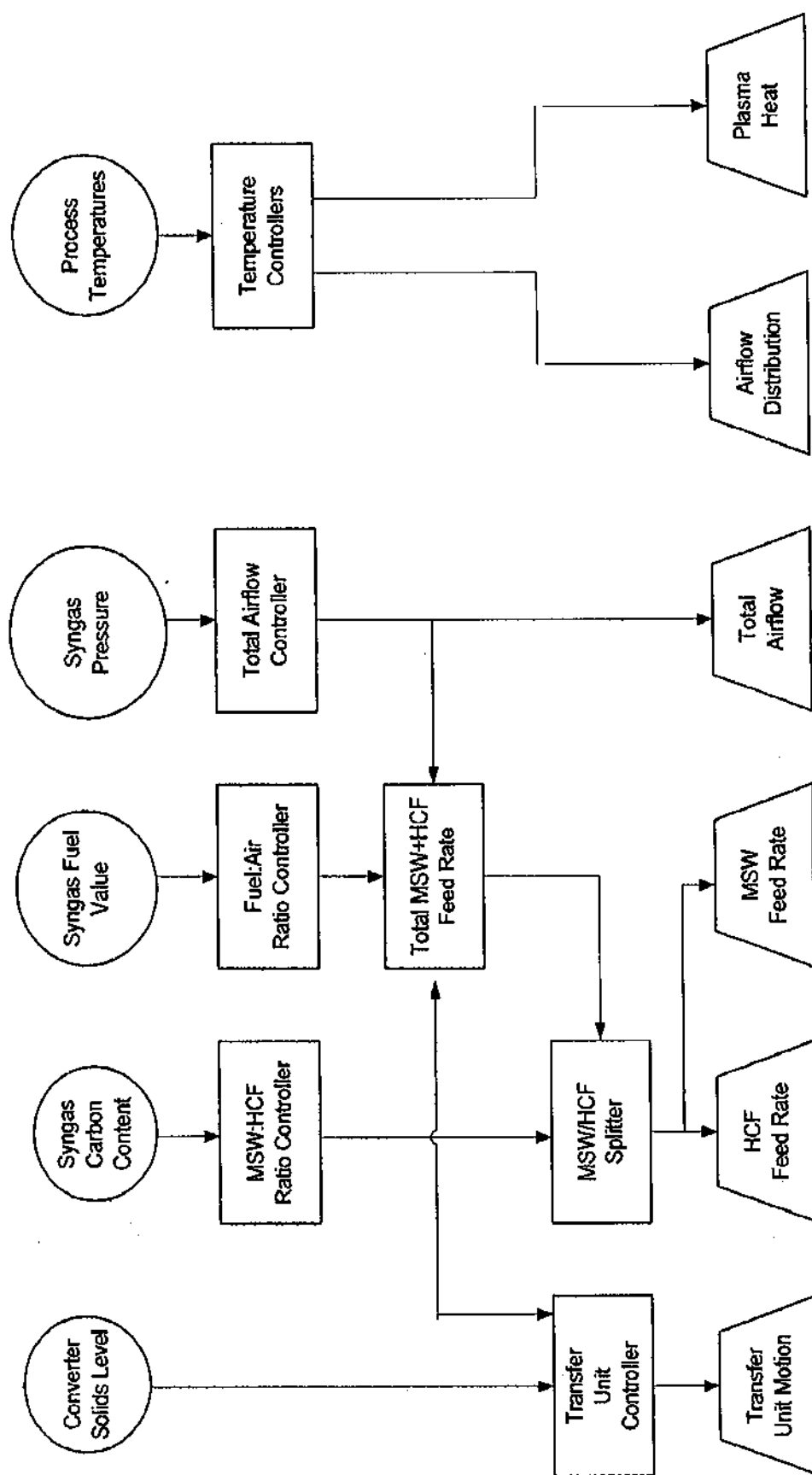


FIGURE 106

TWO SEPARATE GASIFICATION SYSTEMS

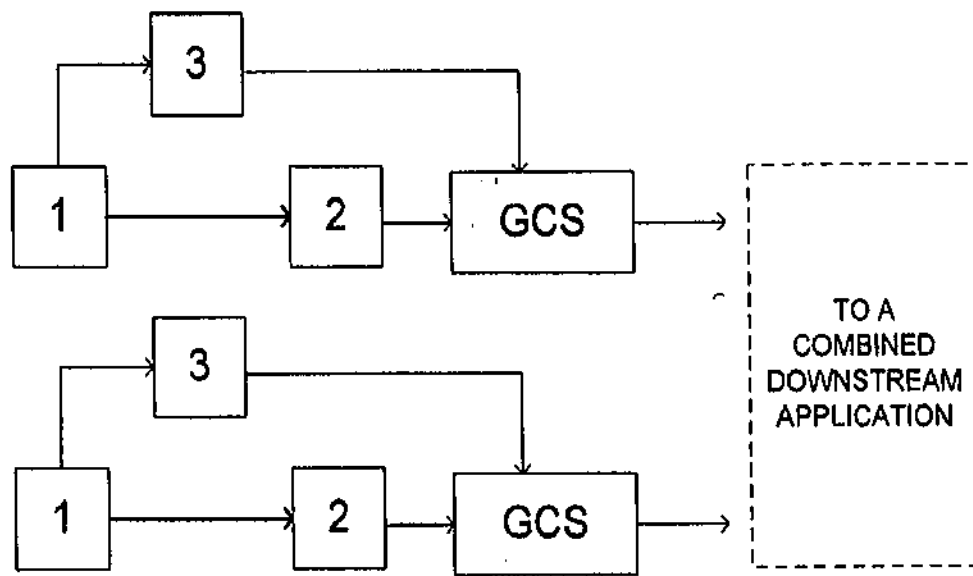


FIGURE 107

COMBINE FUNCTIONS 2

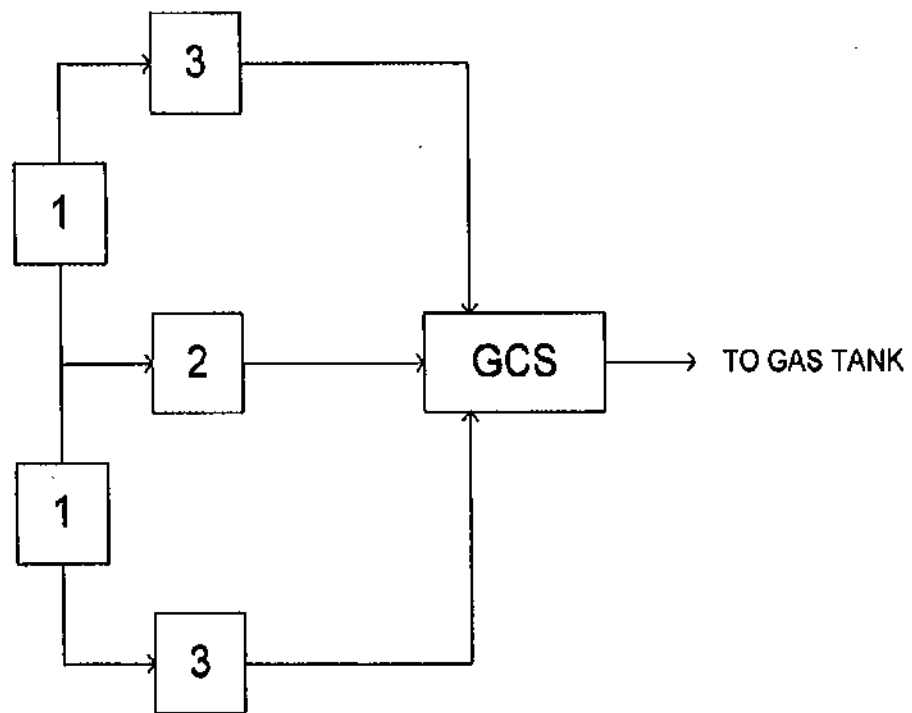


FIGURE 108

COMBINE FUNCTIONS 3

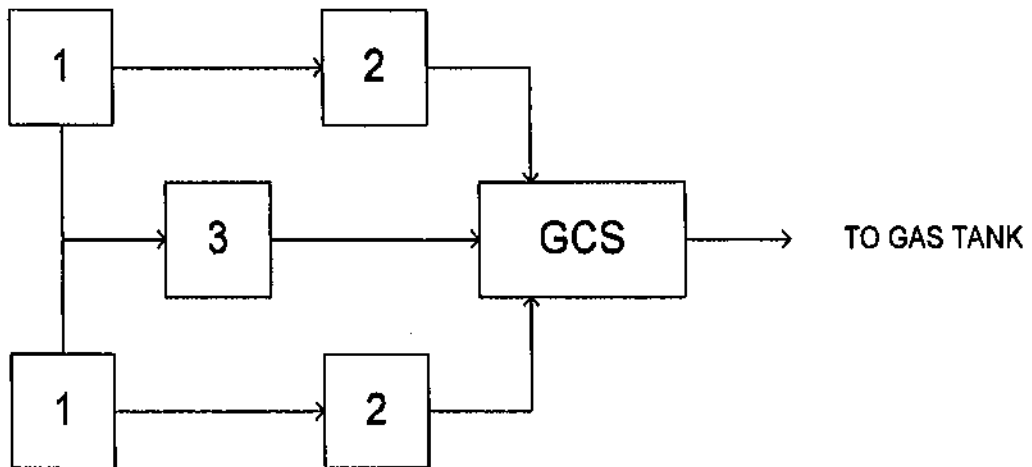


FIGURE 109

COMBINE FUNCTIONS 2 & 3

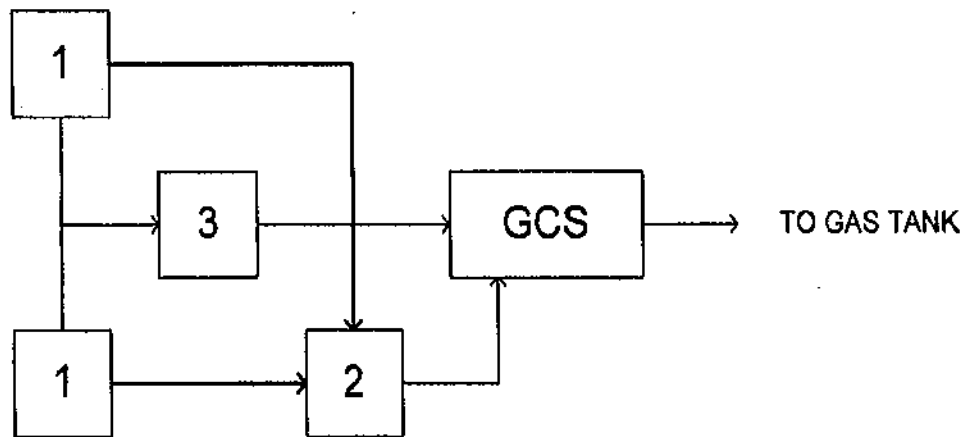


FIGURE 110