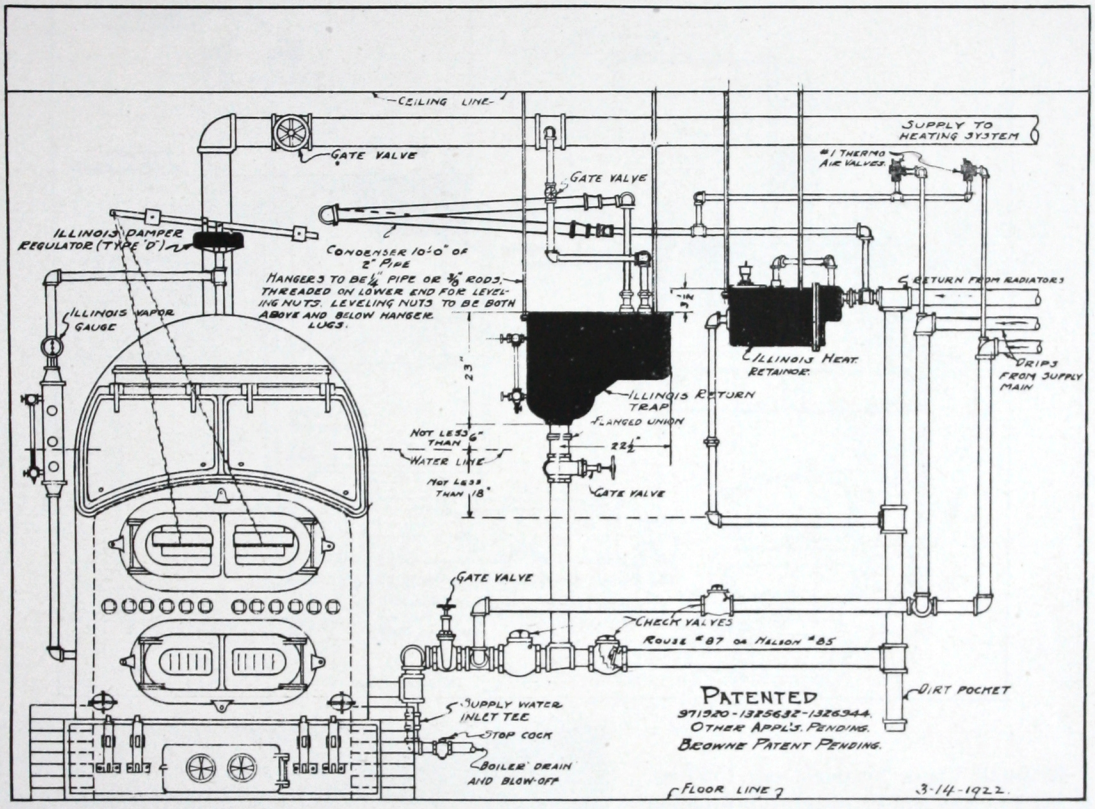
Typical Boiler Room Assembly



The above shows the general arrangement of piping for the proper installation of the automatic appliances. The drips from the ends of supply loops are brought direct to boiler feed pipe inside of the check valve. The return main is run to boiler feed pipe, as shown, with the Illinois Return Trap installed on a standpipe connection between two check valves, as shown. Place Illinois Return Trap as high as bottom of return main. Usually sufficient head can be had so that condensation will pass into boiler by gravity when boiler pressure is less than one pound. When boiler pressure is higher than the pressure due to head, the large check valve closes, and the condensation rises into the Return Trap, which then operates as described on page 17. The small check valve prevents pressure from backing up into the return. The entire operation is automatic and positive.

The Illinois Heat Retainor is set 3½" above the Return Trap and these devices operate to prevent the return from radiators from becoming flooded, thus allowing constant air elimination from the System.