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(54) **Title:** TWO STAGE GASIFICATION WITH DUAL QUENCH

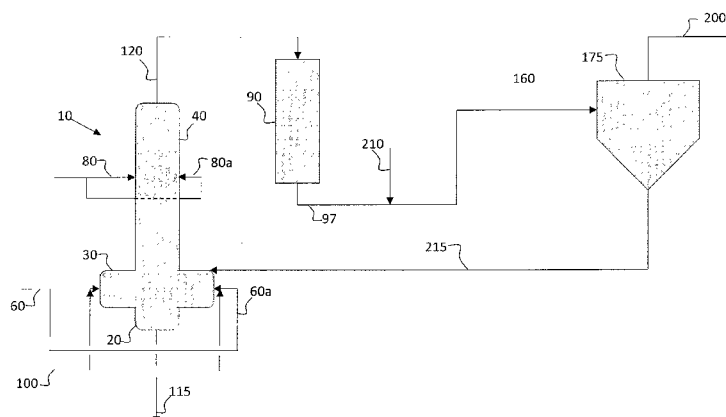


FIG. 2

(57) **Abstract:** Improved two-stage entrained-flow gasification systems and processes that reduce the cost and complexity of the design and increase the reliability, while maintaining the efficiency by implementing a first chemical quench followed by a second water quench of the produced syngas. The quenched syngas is maintained above the condensation temperature of at least one condensable component of the syngas, allowing residual particulates to be removed by dry particulate filtration.

