

METHOD AND SYSTEM FOR GENERATING SYNGAS

Abstract

5 Disclosed herein is a method for generating syngas comprising heating cellulosic material in a vessel comprising a pathway and a heat generator in thermal communication with the pathway to thermally degenerate the cellulosic material by pyrolysis, the cellulosic material forming biochar and releasing syngas when undergoing pyrolysis, displacing the generated syngas along the pathway to thereby filter the syngas through at least one of the cellulosic
10 material and the biochar undergoing pyrolysis, reacting at least a portion of the generated syngas with catalytic material presented along the pathway for reforming the at least a portion of the generated syngas being displaced along the pathway, and discharging the filtered syngas from the vessel. The cellulosic material comprising at least one of woodchips, wood pellets, biomass and biowaste.

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Figure 1

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