

Title (en)

APPARATUS AND METHOD FOR INTRODUCING COMPRESSIBLE FUEL INTO A GASIFIER

Title (de)

VORRICHTUNG UND VERFAHREN ZUR EINFÜHRUNG VON KOMPRIMIERBAREN TREIBSTOFFEN IN EINEN VERGASER

Title (fr)

APPAREIL ET PROCEDE POUR INTRODUIRE DU COMBUSTIBLE COMPRESSIBLE DANS UN GAZOGENE

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Application

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Abstract (en)

[origin: WO9934662A1] An apparatus and method for introducing a compressible fuel, such as rubber, plastic, wood, paper products, and similar materials, into a gasifier is disclosed. The apparatus includes one or more stages of compression. One or more preheaters (96) are provided to soften or melt the fuel material during start-up of the gasifier. In operation, heat from the gasifier softens or melts the fuel material. One or more holes (42) located adjacent the exit end of the feed tube (16) allow the softened fuel material to exit the apparatus and enter the gasifier. In one embodiment, a "neck" region in combination with the compression forces the softened fuel material to exit the apparatus and enter the gasifier. In another embodiment, a gate temporarily blocks the exit end of the feed tube forcing the softened compressed fuel through the holes. This allows for separation of non-combustibles, such as wires used in reinforced tires, from the fuel material.

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