

Title (en)

METHODS AND APPARATUS FOR PYROLYZING MATERIAL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR PYROLISIERUNG VON MATERIAL

Title (fr)

PROCÉDÉS ET APPAREIL DE PYROLYSE D'UN MATÉRIAU

Publication

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Application

**EP 10814234 A 20100824**

Priority

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Abstract (en)

[origin: WO2011028515A2] Methods and systems (10) for substantially continuously treating comminuted material (28) containing carbon and hydrogen, for example, used tires, are provided. The methods include the steps of introducing the tire material to an elongated chamber (12), transferring the tire material through the elongated chamber, heating the tire material to a temperature sufficient to pyrolyze the material to produce a gaseous stream; discharging the gaseous stream from the chamber, and cooling at least some of the gaseous stream to liquefy components of the stream. The transfer may be effected by a flexible, center-less screw conveyor (18) to minimize material buildup in the vessel. The cooling of the gaseous stream may be practiced by reverse condensation. The apparatus may further comprise an agitator (52) positioned in a conduit (40) operatively connected to an outlet (38) from the chamber (12), the agitator adapted to displace any condensate formed in the conduit (40).

IPC 8 full level

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