

Title (en)
METHOD AND APPARATUS FOR PLASMA PYROLYSIS OF LIQUID WASTE

Publication
EP 0354731 B1 19920520 (EN)

Application
EP 89307930 A 19890803

Priority
US 22988488 A 19880810

Abstract (en)
[origin: EP0354731A1] A method and apparatus for pyrolytically decomposing waste material characterized by injecting a mixture of waste and water into a plasma torch having an operating temperature of in excess of 5000 DEG C to form a mixture of product gases and solid particulate; separating the gases and particulate in a first cyclone separator into separate phases; transferring the particulate to a second cyclone separator and subjecting the particulate to a partial vacuum to separate any carryover gases from the particulate; subjecting the combined reaction chamber and carryover gases in a scrubber to a spray consisting of a caustic solution and water to eliminate any carryover particulate from the gases and to neutralize any HCl in the gases; and removing the gases from the scrubber.

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CPC (source: EP)
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Cited by
DE4231771A1; GB2490175A; AU669158B2; US5206879A; CN109737430A; US5793013A; US5973289A; US5498826A; US6187206B1; WO9317759A1; WO9722556A1; US9744575B2; WO9641505A1; WO9113532A1

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