

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.

IPC 1-7  
**C10B 19/00**; **C10B 53/00**

IPC 8 full level  
**B09B 3/00** (2006.01); **C10B 19/00** (2006.01); **C10B 53/00** (2006.01)

CPC (source: EP)  
**C10B 19/00** (2013.01); **C10B 53/00** (2013.01)

Cited by  
DE4231771A1; GB2490175A; AU669158B2; US5206879A; CN109737430A; US5793013A; US5973289A; US5498826A; US6187206B1; WO9317759A1; WO9722556A1; US9744575B2; WO9641505A1; WO9113532A1

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**EP 89307930 A 19890803**; CA 607224 A 19890801; DE 68901592 T 19890803; JP 20658689 A 19890808