



**Biological and  
Agricultural  
Engineering  
Department**

Disclosure number: 1026, 1027

## **Improved Biomass Pyrolysis Method**

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### **Description:**

This invention relates to methods to create bio-oil from biomass, solid waste or other carbon containing material. The process can also convert that oil into usable fuel. The biomass is heated into a vapor form and then re-condensed into oil. The bio oil is upgraded into fuel either through the use of radio wave or microwaves heating. Heating occurs evenly throughout the material, ensuring a more efficient conversion. The process also grants the bio-oil additional stability.

### **Advantages:**

- More effective and thorough heating
- Enhanced stability
- Green process

### **Commercial Uses:**

- Converting biomass to biofuel
- Converting carbon containing material to biofuel

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