CLAIMS

1. An apparatus to convert polymer containing materials into petroleum products, the apparatus comprises:

a horizontal reactor body that has an inlet at the first end, at least one outlet at the other end and which is sealed on both ends, wherein the horizontal reactor body, which can also be considered as a cylindrical body is inclined between 0 and 30 degrees from the inlet to the outlet, wherein the outlet is above the inlet;

a controller configured to adjust the revolutions per minute of the cylindrical body depending on the reaction needs;

a heating source disposed adjacent to the reactor body to apply external heating along one or more sides of the reactor body between the inlet and the outlet; and

one or more internal scrapers disposed inside of the cylindrical body, wherein each scraper is configured to promote directional movement of materials within the cylindrical body.

2. An apparatus as in claim 1, further comprising a mechanism configured to adjust the incline of the cylindrical body at different sloped angles during operation of the cylindrical body.

3. An apparatus as in claim 1, further comprising a rotator mechanism configured to control rotation of the cylindrical body.

4. An apparatus as in claim 1, wherein the controller further comprises feedback controls that provide guidance as to conditions required to vary yields of desired products from the apparatus.

5. An apparatus as in claim 1, wherein each internal scraper comprises a stationary scraper to scrape material away from an internal surface of the cylindrical body as the cylindrical body rotates relative to the stationary scraper.

6. An apparatus as in claim 1, further comprising a plug or baffle at the outlet of the cylindrical body, wherein the plug or baffle is configured to reduce heat loss at the outlet.