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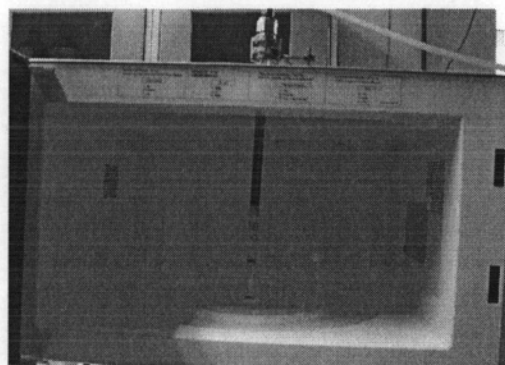
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APPENDIX

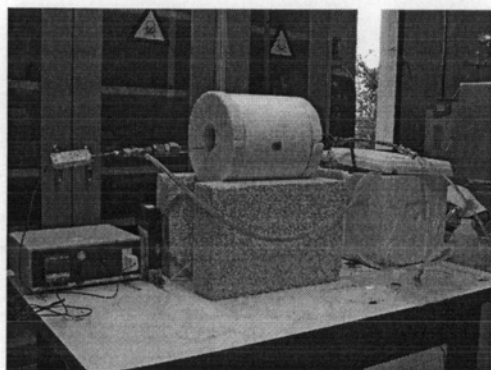


(a)

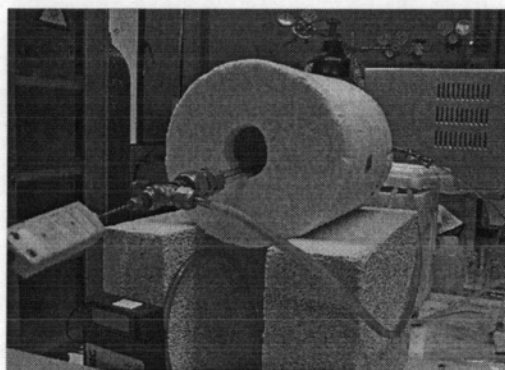


(b)

Figure A1 Actual operation of thermal conversion by microwave heating (a) equipments setup (b) inside the microwave chamber.

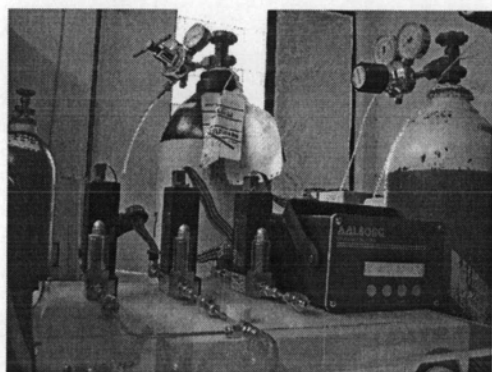


(a)



(b)

Figure A2 Actual operation of thermal conversion by electrical furnace heating (a) equipments setup (b) side view of the operation.



(a)



(b)

Figure A3 Show the equipment that use in the operation (a) mass flow controller (b) carrier gas.

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Mr. Kanit Soongprasit was born in Bangkok, Thailand, on March 3, 1983. He received a Bachelor degree of Science in Materials Science, Chulalongkorn University in 2005. Then, he continued his Master study in Applied Polymer Science and Textile Technology at the Department of Materials Science, Faculty of Science, Chulalongkorn University in 2005, and ultimately completed the degree of master of Science in May 2007.