Description

Title of Invention

METHOD FOR PRODUCTION OF METHANOL WITH HIGH EFFICIENCY, AND METHOD FOR PRODUCTION OF ACETIC ACID RAW MATERIAL OR MMA RAW MATERIAL UTILIZING THE SAME

Technical Field

[0001]

The present invention relates to a method and an apparatus for efficiently producing methanol from a lower hydrocarbon such as natural gas, and further relates to a method and an apparatus for efficiently producing an acetic acid raw material or an MMA raw material by utilizing the method and apparatus.

Background Art

[0002]

Methanol can be used as a raw material for basic chemicals such as acetic acid and MMA (methyl methacrylate), and can be used as a raw material for DME (dimethyl ether) that is gaining attention as a next generation fuel. In addition, methanol is considered to be used as an energy source for fuel cells. Accordingly, demand for methanol is expected to increase more and more in the future. In order to industrially produce methanol, a conventional method has been used in which syngas (also referred to as synthesis gas) mainly including hydrogen and carbon monoxide is formed from a lower hydrocarbon such as natural gas, and the obtained syngas is subject to reaction based on a vapor-phase synthesis process

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HIGH EFFICIENCY PRODUCTION METHOD OF METHANOL AND PRODUCTION METHOD OF ACETIC ACID MATERIAL OR MMA MATERIAL USING SAME

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