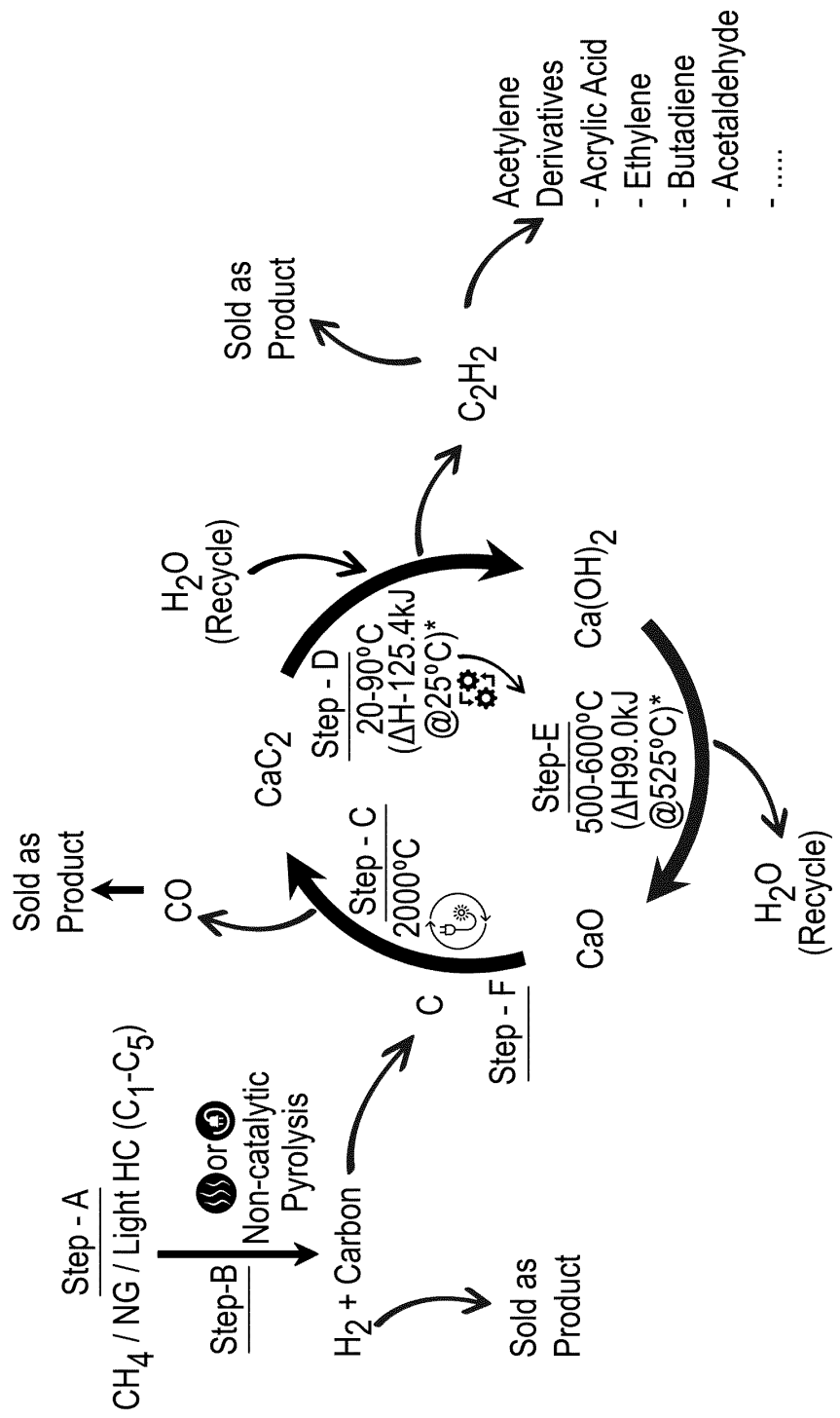
Fig.1


Step - A
CH_4 / NG / Light HC (C_1-C_5)
Step-B
or
Non-catalytic Pyrolysis
H_2 + Carbon
C
Sold as Product
Step - F
CO
Sold as Product
Step - C
2000°C
CaC_2
Step - D
20-90°C
(ΔH-125.4kJ @25°C)*
H_2O (Recycle)
C_2H_2
Sold as Product
Acetylene Derivatives
- Acrylic Acid
- Ethylene
- Butadiene
- Acetaldehyde
- .....
Step-E
500-600°C
(ΔH99.0kJ @525°C)*
CaO
$Ca(OH)_2$
H_2O (Recycle)