

DERWENT PUBLICATIONS LTD.

KRUN ★ **Q52** **84-307806/50** ★ **DE 3320-227-A**
 Flexibly coupled power station and chemical plants - for prodn. of
 methanol and pref. acetic acid, etc. are all supplied by coal
 gasifier

KRAFTWERK UNION AG 03.06.83-DE-320227

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A coal gasifier supplied gas to (i) a gas turbine in a power station, where there are also steam turbines driven by steam raised from the gas turbine exhaust gas; and (ii) a methanol synthesis plant. Some at least of the methanol produced and of the off-gas from the methanol plant are fed to a second chemical plant (pref. for acetic acid or vinyl acetate mfr), from which the off-gas, with the remaining methanol plant off-gas, is sent to the gas turbine combustion chamber.

ADVANTAGE - The relative prodn. rates of power and chemicals can be adjusted, within limits, to the changing demand situation. The economics of a prior art power station (DE3114984) which also produced methanol are hereby improved, and chemical prods. made at min. cost. Costs are saved partly because synthesis gas compsn. need not be adjusted to the optimum value for synthesis, since off-gas is burnt with power recovery. (16pp Dwg.No.0/2)

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