

DERWENT PUBLICATIONS LTD.

KRUN ★ **Q51 Q52** 84-301844/49 ★ EP-127-092-A
Power station complex - integrated with coal gasifier, methanol synthesis plant and hydrogen enrichment circuit

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A medium-load power station is integrated with a coal gasification plant and with a methanol synthesis plant. A gas turbine section of the power station is coupled through the crude gas heat exchanger of the gasifier to a steam turbine section. The methanol synthesis plant is linked to a cooler-saturator circuit with a saturator, converter unit, cooler and gas purification, for the purpose of hydrogen enrichment.

ADVANTAGE - This produces the hydrogen in the integrated power station in the most economical way possible and increases the methanol production when the electricity demand is low. (21pp Dwg.No.0/3)

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