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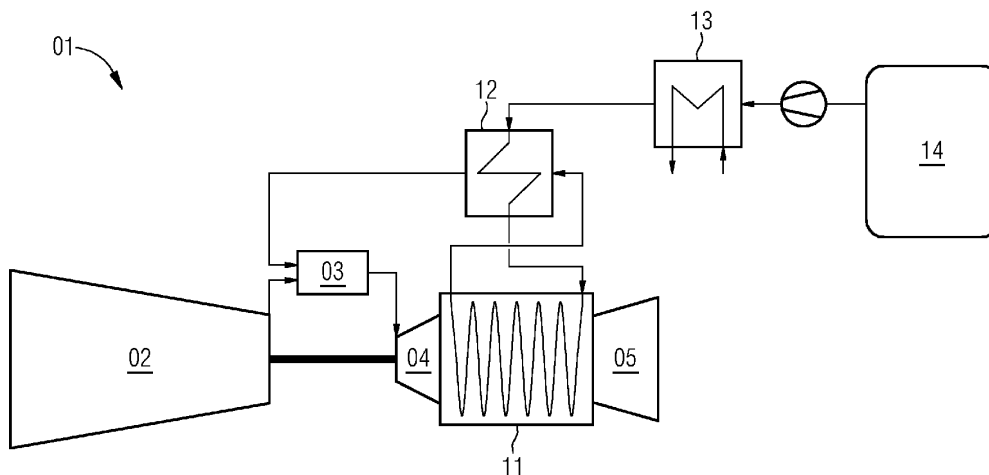
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(54) Title: GAS TURBINE ARRANGEMENT WITH AMMONIA CRACKER AND POWER PLANT WITH SUCH AND METHOD TO OPERATE A GAS TURBINE ARRANGEMENT

FIG 1



(57) Abstract: The invention is about a gas turbine arrangement (01) comprising a gas turbine and an ammonia cracker. The gas turbine comprises a compressor (02), a combustor (03) and a high-pressure expansion turbine (04) and a low-pressure expansion turbine (05). The ammonia cracker (11) comprises a cracker air channel from a cracker air inlet to a cracker air outlet and a cracker reaction channel from a cracker ammonia inlet to a cracker fuel outlet, wherein a fuel piping connects the cracker fuel outlet with the combustor (03). To increase the efficiency of the gas turbine arrangement the ammonia cracker (11) is arranged in-between the high-pressure expansion turbine (04) and the low-pressure expansion turbine (05) and in operation the exhaust gas passes the cracker air channel.

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