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(54) **AIRCRAFT ENGINE SYSTEM INCLUDING A CLUTCH AND MOTOR CONTROLLER FOR SELECTIVELY CONNECTING A GENERATOR AND A TURBINE ENGINE**

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(57) **ABSTRACT**

An engine system includes a turbine engine having a high pressure spool and a low pressure spool. A transmission includes an input shaft connected to one of the high pressure spool and the low pressure spool, and an output shaft. A clutch is arranged between the input shaft and the output shaft. A generator is connected to the output shaft. A clutch controller activates the clutch when one of the high pressure spool and the low pressure spool, and the generator are operating at a selected speed range.

