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(71) Applicant (for all designated States except US): **UNITED TECHNOLOGIES CORPORATION** [US/US]; One Financial Plaza, Hartford, CT 06101 (US).

(72) Inventors; and

(71) Applicants (for US only): **NORRIS, James, W.** [US/US]; 75 Levita Road, Lebanon, CT 06249 (US). **KUPRATIS, Daniel, B.** [US/US]; 12 Sunset Drive, Wallingford, CT 06492 (US). **STETSON, Gary, M.** [US/US]; 38 Old Stafford Road, Tolland, CT 06084 (US).

(74) Agent: **MILLER, Thomas, A.**; Miller, Matthias & Hull LLP, One North Franklin Street, Suite 2350, Chicago, IL 60606 (US).

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(54) Title: GAS TURBINE ENGINE WITH VARIABLE OVERALL PRESSURE RATIO

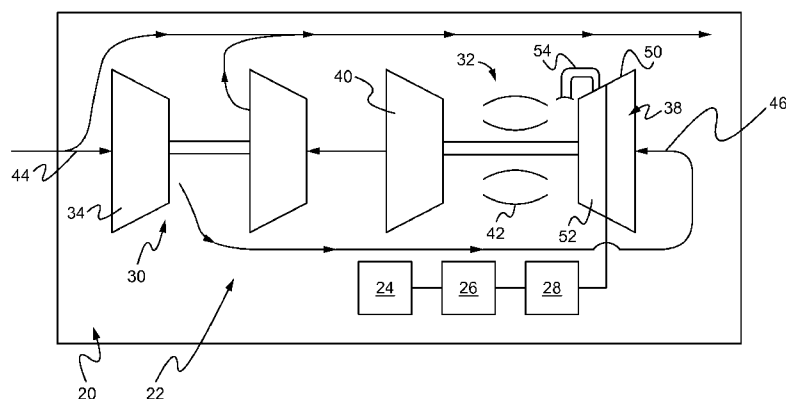


Fig. 1

(57) Abstract: A gas turbine engine has a variable overall pressure rate ("OPR."). The engine includes a high pressure compressor having at least a primary stage having a set of primary rotors and a secondary stage having a set of secondary rotors. A clutch is provided to selectively engage the secondary rotors with the primary rotors. Engagement of the clutch may be controlled based on the vehicle travel mode, such as disengaging during a takeoff mode to reduce turbine entry temperature and engaging during a loiter mode to increase OPR.