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(54) **Method for preferential selection of mode, gear and input speed based on multiple engine state fueling costs for a hybrid powertrain system**

(57) A method for controlling a hybrid powertrain system including an engine (14) selectively operative in one of an all-cylinder state and a cylinder deactivation state based upon power costs includes determining engine power costs for each operating range state of the trans-

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mission (10), determining a system power cost, selecting a preferred cost and corresponding engine operating points, selecting a preferred operating range state, selecting the engine state, and controlling the engine (14) based upon the selected operating range state, the selected engine state, and the engine operating points.

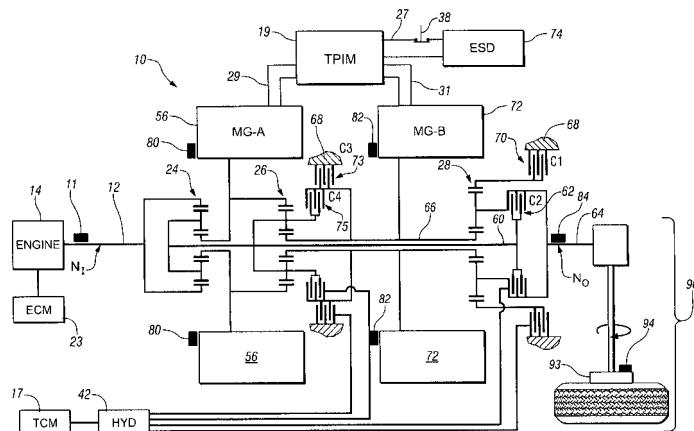


FIG. 1