



[54] HYBRID VEHICLE DRIVE SYSTEM HAVING TWO MOTOR/GENERATOR UNITS AND ENGINE STARTING MEANS

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[57] ABSTRACT

[51] Int. Cl.⁶ B60K 6/04

A hybrid drive system for a motor vehicle, including an engine operated by combustion of a fuel, a first motor/generator, a distributing mechanism for mechanically distributing an output of the engine to the first motor/generator and an output member, a second motor/generator whose rotary force is transferred to a power transmitting path between the output member and a drive wheel of the motor vehicle, and wherein an engine starting device is provided for operating the first motor/generator to crank the engine through the distributing mechanism, for thereby starting the engine.

[52] U.S. Cl. 180/65.2

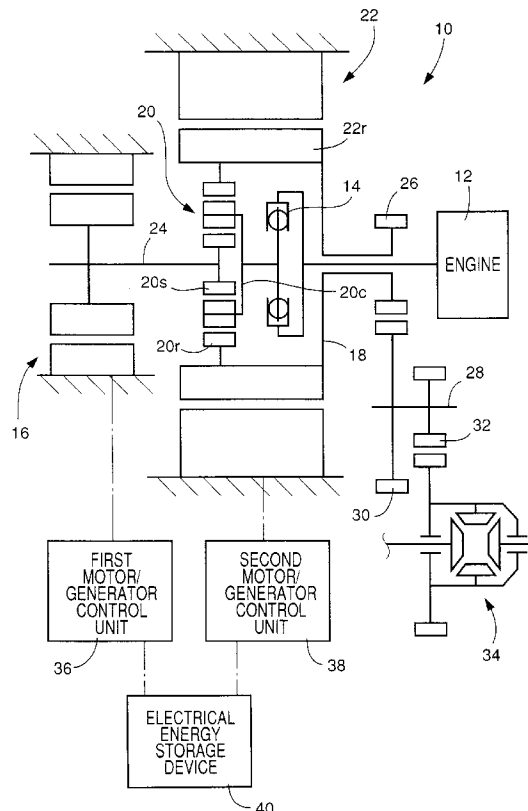
[58] Field of Search 180/65.2, 65.3, 180/65.4, 65.6; 123/3

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7 Claims, 16 Drawing Sheets



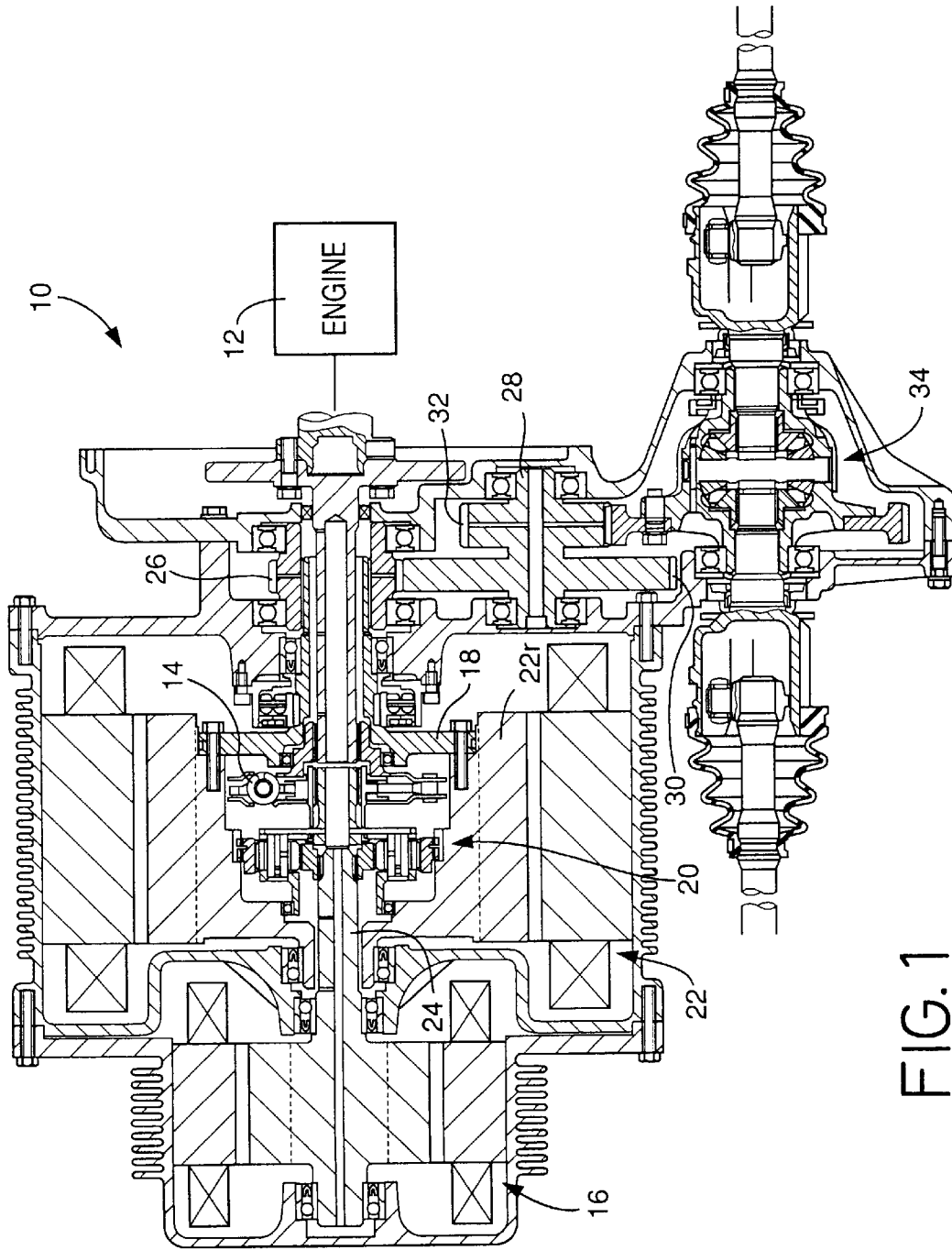
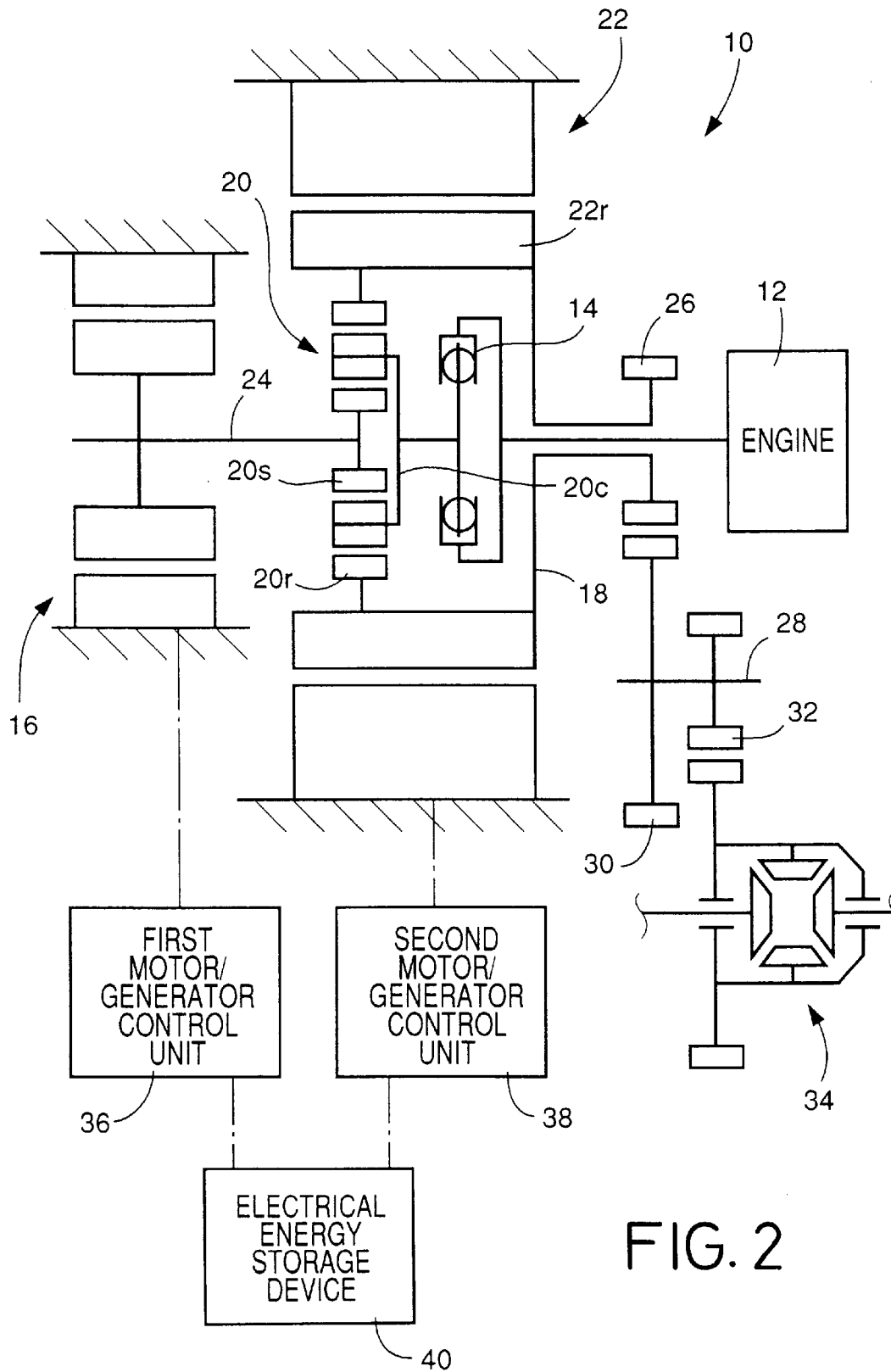


FIG. 1



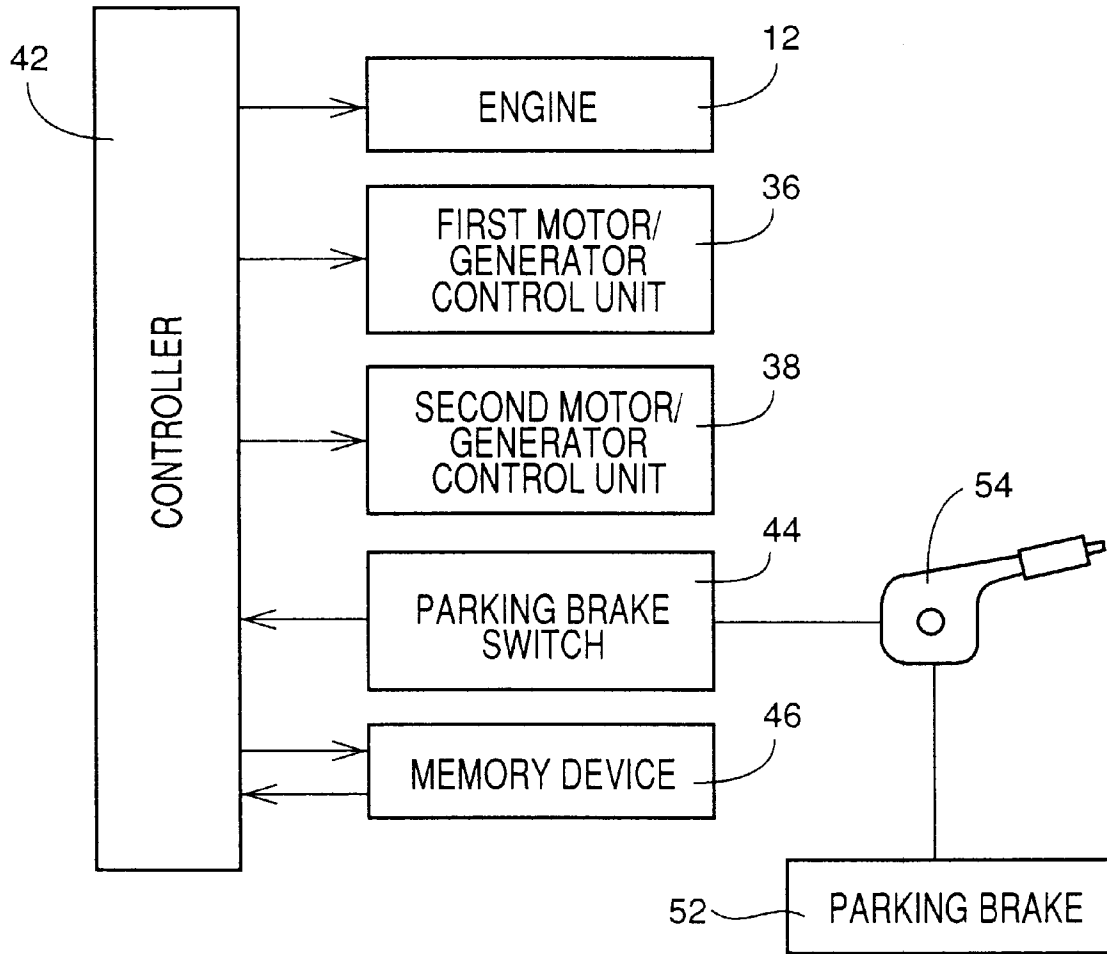
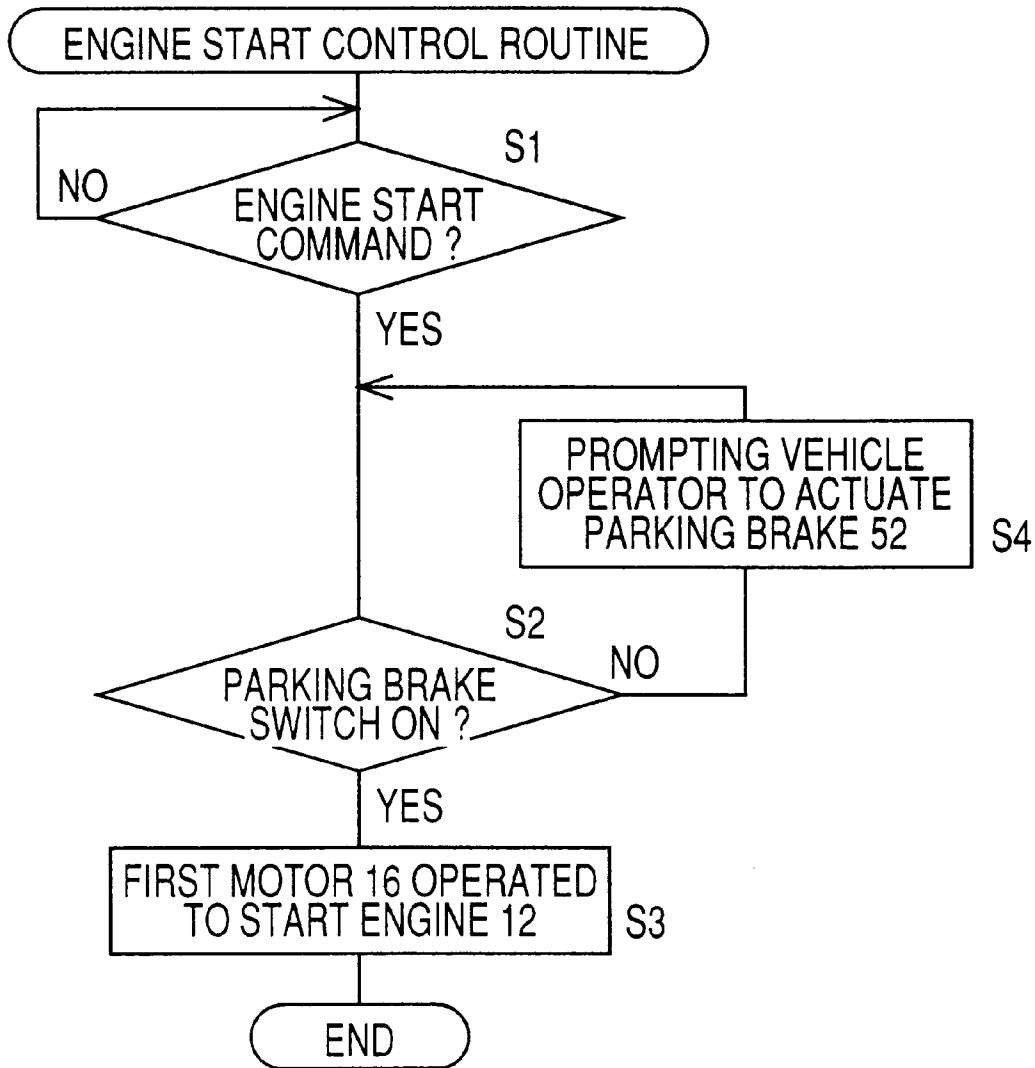


FIG. 3

FIG. 4



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