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of said housing and provided on its inner end with a sun gear at all times enmeshed with said planet gears, a plurality of motor cylinders fixedly secured to said planet carrier and to said intermediate wall for rotation with said rotatable housing and having pistons therein operatively connected to said planet gears, each of said cylinders closed at its outer end by a cylinder head and having a permanent exhaust opening intermediate its ends adapted to be closed by its respective piston during the down-stroke thereof and opened by the passage of the piston in completion of the down-stroke, an annular tubular fluid pressure manifold in open communication with the interior of said cylinders through said cylinder heads thereof, a hub secured to the main housing, surrounding said engine shaft and having a circumferential groove therein, fluid pressure inlet means at all times in open communication with said groove, a ring secured to said rotatable housing and rotatable about said hub, said ring having a port therein at all times in open communication with said fluid pressure manifold, valve means centrally disposed in and extending through said cylinder heads at

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the communicating end of said manifold with said cylinders, and each of said valve means having a stem terminating within its respective cylinder and adapted thereby to be opened by its respective piston as the piston nears the completion of its upstroke to thereby admit pressure from the manifold to the interior of its respective cylinder at the beginning of the piston power stroke, and an internal ring gear rigidly secured to one of said end walls of the main housing and surrounding said planet gears and constantly enmeshed therewith whereby one revolution of the planet carrier will impart three revolutions to the engine shaft.

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