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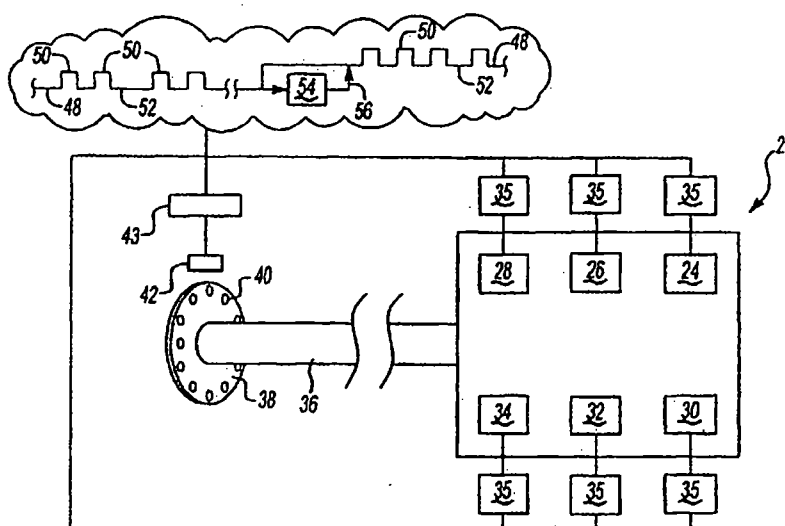
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(54) Title: CAMLESS ENGINE WITH CRANKSHAFT POSITION FEEDBACK



(57) Abstract: A control for a camless engine is provided with a plurality of modules each associated with an individual cylinder. The modules are programmed to operate their respective cylinders once on each of two revolutions of a crankshaft. Thus, the control modules must have an indication of the point in the rotational cycle of the crankcase, but also a signal of which of the two revolutions in the two-revolution cycle is ongoing for the crankshaft. The crankshaft preferably provides a uniform signal for each of the two revolutions. The uniform signal is modified by a signal modification method such that the signal sent to the modules is distinct for each of the two revolutions. In a preferred embodiment the signal is provided with a space which is indicative of a particular point in each of the two revolutions. A modifier is controlled by a switch which alternates between one of two positions, and which modifies the space in one of the two positions. In another embodiment at least a portion of the signal is inverted between the two revolutions. In yet another embodiment, the pulse width of at least a portion of the signal is changed between the two revolutions.

WO 02/038928 A3



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