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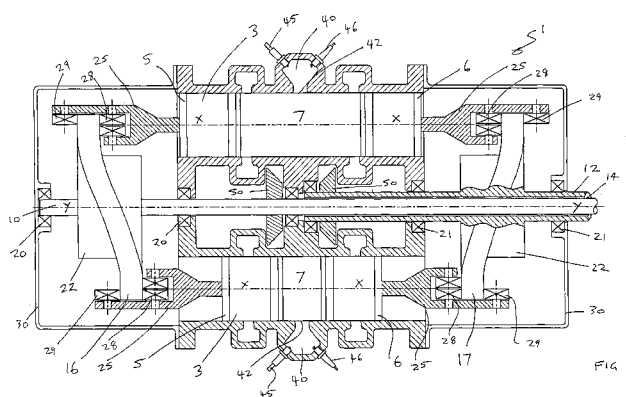
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(54) Title: A CO-AXIAL CRANKLESS ENGINE



(57) Abstract: A co-axial crankless engine (1) having at least one cylinder (3) defining a longitudinally extending axis (XX). A pair of pistons (5, 6) are positioned to reciprocate in opposite directions along the longitudinal axis of the cylinder. A space (7) between the pistons defines a common combustion chamber (70). A first shaft (10) is positioned substantially parallel to and spaced laterally from the longitudinal axis of the cylinder. A second shaft (12) is positioned substantially parallel to and spaced laterally from the longitudinal axis of the cylinder. The second shaft (12) has a longitudinally extending bore (14) through which the first shaft can extend and rotate. Each piston is connected to an axially spaced cam (16, 17). A first cam being supported by the first shaft, a second cam being supported by the second shaft. In use, reciprocation of the pistons imparts on respective shafts rotating motion in opposite directions to drive the engine.