

Title (en)  
SATELLITE ENGINE/MACHINE

Title (de)  
DREHKOLBENMASCHINE MIT UMLAUFRÄDERN

Title (fr)  
MACHINE/MECANISME SATELLITE

Publication  
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Application  
**EP 95937122 A 19951128**

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Abstract (en)  
[origin: GB2295857A] In a machine of the cat-and-mouse type, which may be an I.C. engine, a compressor or a fluid driven motor, a coaxial stepped combined piston housing 9 and satellite crank case 6 has cover plates 4, 5 supporting a central rotor shaft 1 having a flange 10 and disc 11 to which two arcuate, rectangular faced, double acting pistons 13 are mounted. Shaft 1 has a rotor wheel 19 in the crank case 6 eccentrically carrying a crank shaft 21 and a satellite flywheel 23 and satellite pinion 24 meshing with a stationary ring gear 25 bolted to cover plate 4. The flange 16 has eccentric bearings 26 engaging an overhanging gudgeon pin 27 of a connecting rod 28 linked to and actuated by a crank pin 22 of crank shaft 21. When used as an engine the machine may drive a ducted fan (69, Fig. 17). Two fans (75f, 76f, Fig. 18) may be provided or two engines may drive one fan. Sets of engine-fan units may supply air to vectored thrust nozzles (81, Fig. 19), using tip nozzles (83) and nose and tail nozzles (84, 85) in a VTOL aircraft. The engine may be used for propulsion of machinery, automotive vehicles, ships, hovercraft and aircraft. <IMAGE>

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