

Title (en)
PISTON MACHINE, PARTICULARLY PISTON PUMP

Publication
EP 0021315 B1 19850814 (DE)

Application
EP 80103359 A 19800617

Priority
CH 577979 A 19790620

Abstract (en)
[origin: CA1142030A] O F T H E D I S C L O S U R E In piston driven machines and in particular those having an elastically deformable sealing tube between the piston and the cylinder, which causes a relatively large structural length of the cylinder-piston arrangement and which may be provided with a forced feed for the lubricant, a reduction in the space requirement, in particular the structural length of the cylinder-piston arrangement is achieved by a driving member slidably mounted on a tubular cylinder externally and extending over at least part of the length of the cylinder, and frictionally connected to a rotating driving mechanism. A pulsating secondary space formed by the driving member at the outside of the cylinder is connected for the avoidance of shock pressures because of filling with lubricant liquid flowing away, through a balancing channel of large cross-section-al area to a pressure-balancing chamber. For further reduction in the space requirement the often necessary lubricant cooling may be effected by means of a heat exchanger to which the lubricant and the working medium of the piston machine are admitted and which is arranged advantageously inside a lubricant storage chamber or collector.

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EP 84108027 A 19800617; AR 28140880 A 19800613; AT 80103359 T 19800617; AT 84108027 T 19800617; AU 5935080 A 19800617; BR 8003711 A 19800616; CA 354051 A 19800616; CH 577979 A 19790620; CS 424080 A 19800616; DD 22186980 A 19800616; DE 3070978 T 19800617; DE 3072177 T 19800617; EP 80103359 A 19800617; HU 149980 A 19800616; JP 5593888 A 19880308; JP 8126980 A 19800616; PL 22502480 A 19800616; SU 2933205 A 19800616; US 49378083 A 19830512; ZA 803580 A 19800616