

REVOLVING VANE COMPRESSOR

ABSTRACT OF THE DISCLOSURE

A revolving vane compressor comprises a cylinder rotatable about an axis of rotation, a vane rotatable with the cylinder, a rotor is operatively connected to the vane such that rotation of the cylinder causes rotation of the rotor, a drive shaft, and a front cylinder cover rotatable with the cylinder by the drive shaft, comprising at least one fluid inlet positioned circumferentially around the drive shaft, and adapted to receive a compressible fluid. Rotation of the cylinder urges the compressible fluid through the fluid inlet and into the compression chamber through the rotor.

Fig. 2