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(71) Applicant: **EDWARDS LIMITED** [GB/GB]; Innovation Drive, Burgess Hill Sussex RH15 9TW (GB).

(72) Inventors: **HOLBROOK, Alan, Ernest, Kinnaird**; Edwards Limited, Innovation Drive, Burgess Hill Sussex RH15 9TW (GB). **SCHOFIELD, Nigel, Paul**; Edwards

Limited, Innovation Drive, Burgess Hill Sussex RH15 9TW (GB). **BEDWELL, David**; Edwards Limited, Innovation Drive, Burgess Hill Sussex RH15 9TW (GB).

(74) Agent: **TOTMAN, Clare**; Edwards Limited, Innovation Drive, Burgess Hill Sussex RH15 9TW (GB).

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(54) Title: SCROLL PUMP

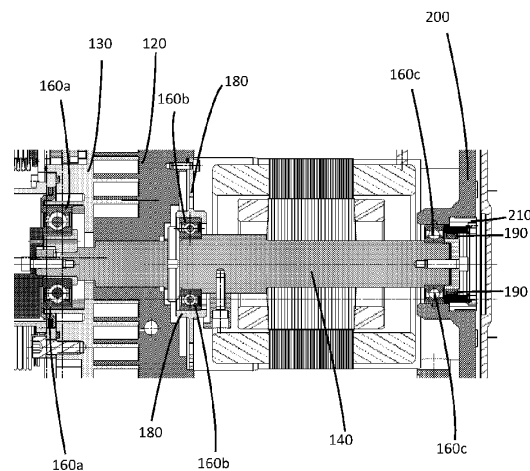


FIG. 5

(57) Abstract: A non-contacting scroll pump (100) comprising an orbiting scroll (130), a fixed scroll (120), a drive shaft (140) coupled to the orbiting scroll, wherein the drive shaft is movable relative to the fixed scroll in an axial direction. The non-contacting scroll pump further comprises an annular bearing (160b) extending around the drive shaft for supporting and facilitating rotation of the drive shaft, and a diaphragm (180) attached to the annular bearing to support the annular bearing, wherein the diaphragm is flexible in the axial direction to allow the annular bearing to move in the axial direction, thereby facilitating the movability of the drive shaft relative to the fixed scroll in the axial direction.

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