

Title (en)
ROBOTIC SURGICAL ASSEMBLIES AND INSTRUMENT DRIVE UNITS THEREOF

Title (de)
ROBOTISCHE CHIRURGISCHE ANORDNUNGEN UND INSTRUMENTENANTRIEBSEINHEITEN DAFÜR

Title (fr)
ENSEMBLES CHIRURGICAUX ROBOTISÉS ET UNITÉS D'ENTRAÎNEMENT D'INSTRUMENT ASSOCIÉS

Publication
EP 3463152 A1 20190410 (EN)

Application
EP 17807542 A 20170602

Priority
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Abstract (en)
[origin: WO2017210516A1] An instrument drive unit includes a housing configured to be coupled to a surgical robotic arm, a motor assembly, and a flex spool assembly. The motor assembly is rotatably disposed within the housing. The flex spool assembly includes a first printed circuit board mounted to the housing, a second printed circuit board configured to be non-rotatably coupled to and electrically connected to the motor assembly, and a first flex circuit. The first flex circuit has a first end portion connected to the first printed circuit board, a second end portion connected to the second printed circuit board, and an intermediate portion coiled about the second printed circuit board such that rotation of the motor assembly relative to the housing effects movement of the second end portion of the first flex circuit along an annular path.

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