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Machine translation

1. [20210399608](#) A DRIVE TRAIN

US - 23.12.2021

Int.Class [H02K 7/116](#) Appl.No 17287909 Applicant AUTOMATA TECHNOLOGIES LIMITED Inventor Masssimo GANDALFI

A drive train is provided comprising: a motor assembly, a gear box assembly [40] and an encoder assembly. The motor assembly comprises an electric motor [21] and a rotatable shaft [26] defining an input axis [27], the shaft [26] comprising a first set of gear teeth [28]. The gear box assembly [40] comprises an annular gear [48, 50] comprising a second set of gear teeth [48, 50] which intermesh with the first set of gear teeth [28], and a housing [42, 44, 45] which comprises a fixed portion [42] to which the motor assembly is mounted and a rotatable portion [45] fixed to the annular gear [48, 50] and providing the output from the drive train about an output axis [72] offset from the input axis [27]. The encoder assembly is arranged and configured to measure the rotation at the output axis [72]. A central opening is defined through the gearbox assembly [40] in alignment with the output axis [72] and passing through the housing [42, 44, 45] and the annular gear [48, 50]. The motor assembly is mounted so as to not obstruct the central opening. The encoder assembly comprises an annular first portion [71] mounted to the rotatable portion [45] of the gearbox assembly [40] about the central opening, and a second portion fixed with respect to the fixed portion [42] of a gearbox assembly housing [42, 44, 45] to measure the rotation of the annular first portion [71].

2. [WO/2020/084316](#) A DRIVE TRAIN

WO - 30.04.2020

Int.Class [H02K 7/116](#) Appl.No PCT/GB2019/053034 Applicant AUTOMATA TECHNOLOGIES LIMITED Inventor GANDALFI, Massimo

A drive train is provided comprising: a motor assembly, a gear box assembly [40] and an encoder assembly. The motor assembly comprises an electric motor [21] and a rotatable shaft [26] defining an input axis [27], the shaft [26] comprising a first set of gear teeth [28]. The gear box assembly [40] comprises an annular gear [48, 50] comprising a second set of gear teeth [48, 50] which intermesh with the first set of gear teeth [28], and a housing [42, 44, 45] which comprises a fixed portion [42] to which the motor assembly is mounted and a rotatable portion [45] fixed to the annular gear [48, 50] and providing the output from the drive train about an output axis [72] offset from the input axis [27]. The encoder assembly is arranged and configured to measure the rotation at the output axis [72]. A central opening is defined through the gearbox assembly [40] in alignment with the output axis [72] and passing through the housing [42, 44, 45] and the annular gear [48, 50]. The motor assembly is mounted so as to not obstruct the central opening. The encoder assembly comprises an annular first portion [71] mounted to the rotatable portion [45] of the gearbox assembly [40] about the central opening, and a second portion fixed with respect to the fixed portion [42] of a gearbox assembly housing [42, 44, 45] to measure the rotation of the annular first portion [71].

3. [WO/2017/060735](#) ROBOTIC ARM WITH A TOOL INTERFACE COMPRISING AN ELECTRONICALLY CONTROLLABLE TOOL ATTACHMENT

WO - 13.04.2017

Int.Class [B25J 15/04](#) Appl.No PCT/GB2016/053140 Applicant AUTOMATA TECHNOLOGIES LIMITED Inventor CHANDRA, Suryansh

The present invention relates to a robotic arm with a tool interface [16] comprising an electronically controllable tool attachment for affixing a tool to the interface.

4. [WO/2017/060734](#) ROBOT ARM

WO - 13.04.2017

Int.Class [B25J 9/00](#) Appl.No PCT/GB2016/053139 Applicant AUTOMATA TECHNOLOGIES LIMITED Inventor CHANDRA, Suryansh

The present invention relates to a robotic arm [10] with five or more degrees of freedom of motion and comprising substantially load-bearing polymeric parts.

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