

Title (en)
SURGICAL ROBOTIC SYSTEM INCLUDING SYNCHRONOUS AND ASYNCHRONOUS NETWORKS AND A METHOD EMPLOYING THE SAME

Title (de)
CHIRURGISCHES ROBOTERSYSTEM MIT SYNCHRONEN UND ASYNCHRONEN NETZWERKEN UND VERFAHREN DAMIT

Title (fr)
SYSTÈME ROBOTIQUE CHIRURGICAL COMPRENANT DES RÉSEAUX SYNCHRONES ET ASYNCHRONES ET PROCÉDÉ D'UTILISATION DE CELUI-CI

Publication
EP 3745986 A4 20211110 (EN)

Application
EP 19748231 A 20190201

Priority

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- US 2019016229 W 20190201

Abstract (en)
[origin: WO2019152764A1] Surgical robotic systems including synchronous and asynchronous networks and methods employing the same are provided. One surgical robotic system includes a networked computing node, a slave robot assembly, and first and second communication paths. The slave robot assembly includes subunits, communicatively coupled to one another by way of the first communication paths, thereby forming at least a portion of a synchronous network. The networked computing node and a subunit are communicatively coupled to one another by way of the second communication paths, thereby forming at least a portion of an asynchronous network, and are configured to communicate one or more packets to one another by way of the asynchronous network. The subunit is configured to communicate, with the other subunits via the synchronous network, data from the one or more packets. A clock rate of the synchronous network is independent from a clock rate of the asynchronous network.

IPC 8 full level
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Citation (search report)

- [I] US 2007086487 A1 20070419 - YASUDA TAKESHI [JP], et al
- [A] US 2007150631 A1 20070628 - DRUKE MICHAEL B [US], et al
- See references of WO 2019152764A1

Designated contracting state (EPC)
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