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(54) **CONTROLLER AREA NETWORK AND CONNECTIVITY HEALTH TROUBLESHOOTING SYSTEM**

(71) Applicant: **DEERE & COMPANY**, Moline, IL (US)

(72) Inventors: **Curtis P. Ritter**, Waterloo, IA (US); **Devin Mangus**, Ankeny, IA (US); **Joseph A. Bell**, Marion, IN (US); **Murtaza Hita**, UDAIPUR (IN); **Arjun Subhash Shinde**, PUNE (IN); **Jitender Kumar Chandwani**, PUNE (IN)

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(57) **ABSTRACT**

A system and method for diagnosing connection and communication in an industrial machine. The electronic processing system includes a CAN bus, an ethernet network, and a plurality of devices connected to the CAN bus and the ethernet network. The plurality of devices includes at least one controller programmed to run one or more software applications. A connectivity check is performed to obtain CAN connection status data and ethernet connection status data for the plurality of devices. The CAN connection status data and the ethernet connection status data is analyzed to determine a likely cause of a device connection issue. A solution to the device connection issue is output to a user based on the analyzed data.