

ABSTRACT

SYSTEM AND METHOD FOR VEHICLE-SIDE CONTROL OF A MULTI-PILE CHARGING SESSION

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A system or method for vehicle-side control of a multi-pile charging session, the system comprising: (a) a plurality of charging piles **10A**, each charging pile **10A** including a supply equipment communication controller **10B**; and (b) a vehicle electrical system for
10 an electric vehicle with a master battery control unit **18** in data communication with a plurality of battery control units (**BCU₀**, **BCU₁**, **BCU₂**). The master battery control unit **18** is configured to coordinate two or more independent charging sessions through the battery control units (**BCU₀**, **BCU₁**, **BCU₂**) during each multi-pile charging session. Each independent charging session is managed with an independent protocol message
15 exchange through a BCU-to-SECC communication pathway **22** established by power line communication.

FIG. 1