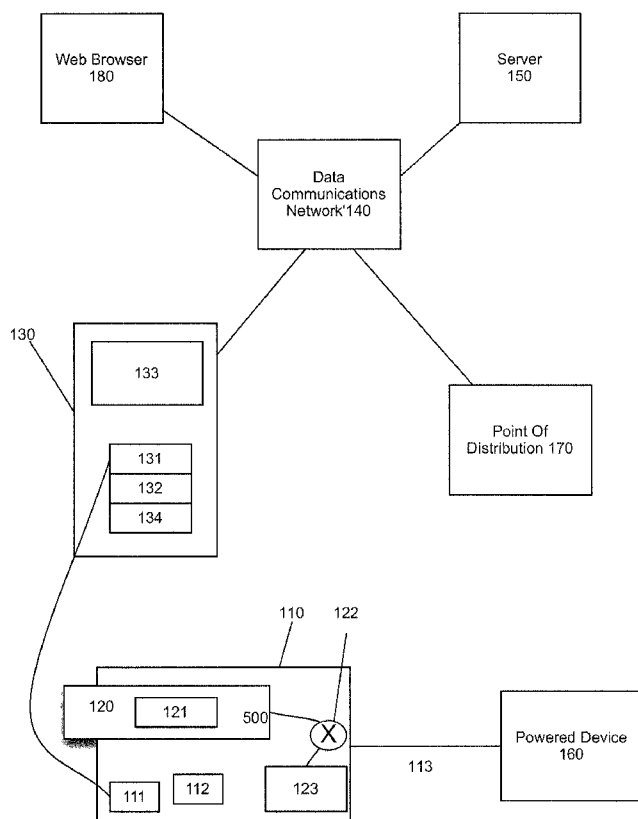




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(54) **Title:** REMOTE AUTHENTICATION OF REPLACEABLE FUEL CARTRIDGE



(57) **Abstract:** A device is disclosed, having a program-
mable processor programmed to cause a fuel cell authentic-
ation device to obtain a first unique identifier element (UIE)
associated with a first hydrogen fuel cartridge and host in-
formation associated with a host device configured to use
fuel from the first fuel cartridge. Said device may determine
that the first fuel cartridge is authorized for use with the
host device, based on data exchanged via a data communica-
tion network with a remote cartridge tracking system, the
first UIE, and the host information. Yet further, the authen-
tication device transmits authorization data to the host
device indicating that the host device is permitted to use
fuel from the first fuel cell cartridge.



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