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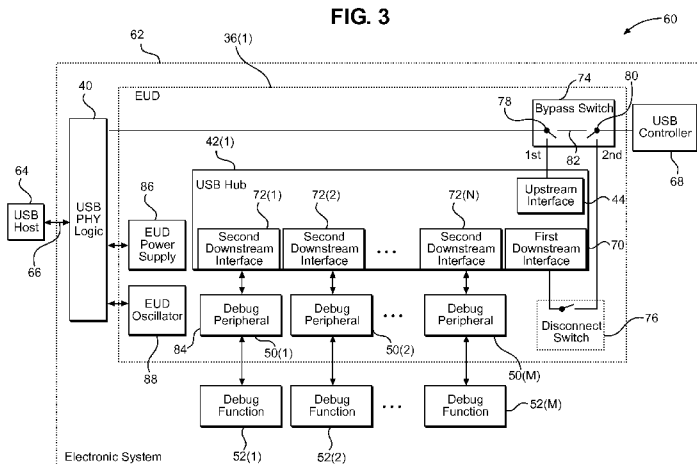
Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
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(54) **Title:** EMBEDDED UNIVERSAL SERIAL BUS (USB) DEBUG (EUD) FOR MULTI-INTERFACED DEBUGGING IN ELECTRONIC SYSTEMS

FIG. 3

(57) **Abstract:** Embedded Universal Serial Bus (USB) debug (EUD) for multi-interfaced debugging in electronic systems are disclosed. Electronic systems contain complex integrated circuits (ICs) that require extensive testing and debugging to ensure good quality and performance. In exemplary aspects, an EUD is provided in an electronic system. The EUD is configured to send control information to and/or collect debugging information from multiple internal debugging interfaces in the electronic system. The EUD is also configured to convert the debugging information into a USB format so that the debugging information can be externally accessed through a USB interface provided by the electronic system. The EUD can provide non-invasive monitoring of the electronic system. The electronic system is able to use a USB port for communications in a mission mode while EUD is enabled. Additionally, the electronic system can turn on or off all system clocks during power-saving mode while the EUD continues to function.