

Inter Partes Review U.S. Patent No. 6,216,158

Apple Inc. v. Uniloc Luxembourg S. A., Case IPR2018-00361

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The Jini-QS Ground

The Riggins Ground

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The '158 Patent is Directed to Using a Palm-Sized Device on Sun's Jini Platform

SUMMARY OF THE INVENTION

Controlling network services using palm sized computers is described. A program on the palm sized computer is used to access a registry of network services that may be available. The registry includes descriptions for various services.

APPL-1001, 1:36-37; '158 Petition at 4-5

Example Registry and Control Infrastructure: Jini

Jini™ is a technology developed by Sun Microsystems which addresses the problem of computing and network complexity. It eases the burden of accessing services by providing seamless access and automatic registration of network resources. Jini accomplishes this by adopting a

APPL-1001, 2:44-49; '158 Petition at 5

In some embodiments, the device executing the network services and the palm sized computer are executing middleware applications for communicating with the registry. In some embodiments, this middleware includes Jini technology from Sun Microsystems. Additionally, the programs downloaded can include Java program code.

APPL-1001, 2:44-49; '158 Petition at 5

computer 100. Once the palm sized computer has located the necessary services, it downloads the code required to control those services (using the download protocols). Middleware, such as Sun's Jini technology, is used to move the code.

APPL-1001, 3:61-65; '158

3. The method of claim 1 wherein the directory includes a Jini Lookup directory, wherein the description includes executing a Jini discovery protocol to locate the Jini Lookup directory and executing a Jini protocol to retrieve the description of the service.

APPL-1001, Claim 3; '158

two brief conversations on or about October 26, 2000 and approximately a week later. In a voice mail and in the initial conversation, the Examiner indicated that all claims would be

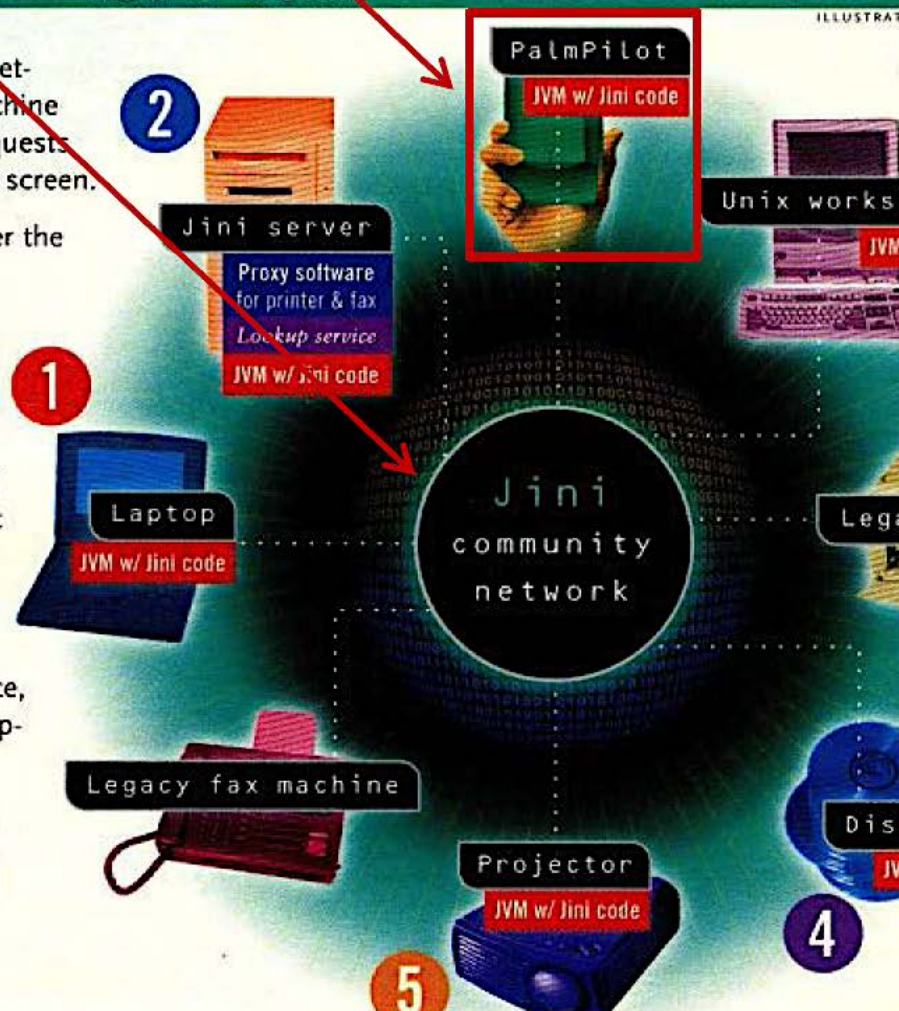
Jini-QS Teaches Using a PalmPilot with Jini

Jini platform

PalmPilot accessing the Jini platform

- 1** A laptop or other device is plugged into the network, and the Jini code in the Java virtual machine on the device broadcasts its presence. The user requests services that are available, and icons appear on his screen.
- 2** The Jini Server and its Lookup Service discover the new laptop and register it on the network.
- 3** Say the user wants to print a presentation. He selects the print option, which launches a query to the Lookup Service on the Jini Server. The server instantly sends proxy code back to the device. The legacy printer, which has no Java or Jini code at all, receives the printing instruction via that proxy code and prints the document.
- 4** Next, the user decides to store his presentation on the network and selects "save" on the file menu. His laptop queries the Lookup Service, which identifies the Jini-enabled disk drive to the laptop. The presentation is saved to disk.
- 5** Finally, the user wants to display his work on the projector, which already has Jini code embedded in it. He selects the projector icon on his screen, which displays the user interface he needs to use that service.

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