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# United States Patent [19] Huckins

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- [54] **REMOTE APPLICATION CONTROL FOR LOW BANDWIDTH APPLICATION SHARING**
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- [58] **Field of Search** ..... 395/200.33, 200.47, 395/200.6, 200.3, 200.77; 707/104, 10; 709/200, 203, 204, 205, 213, 217, 227, 228; 345/330

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### [57] ABSTRACT

An object-oriented distributed service architecture is disclosed as including a client, a “distributed” interface server, and a “local” interface server residing on each computer that is part of an application sharing session. The distributed server communicates with other similar distributed servers on remote computers, and enables a remote implementation of a function invoked by the local client. In response to a function call through a local interface, the distributed server packages an instance identifier for a remote interface residing on a remote machine, together with a function identifier and any arguments required for the function. The message packet is then sent off to remote machines. Each such remote interface had been created as an instance of the local interface in response to a previous message from the local interface. When another distributed server receives the message, the function is invoked through the interface associated with the received instance identifier, resulting in implementation of the function at the remote site.

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**17 Claims, 5 Drawing Sheets**

