

**SPECIAL MASTER'S RECOMMENDED CONSTRUCTIONS FOR PATENT NO.'s
6,425,035, 7,051,147, 7,934, 041 & 7,987,311**

Claim Term	Crossroads' Proposed Construction	Defendants' Proposed Construction	Special Master's Recommendation
<p>Storage Router (Page 1 of attached SM CC Chart)</p> <p>'035 Patent: 1, 2, 3, 4, 5, 6, 7, 10</p> <p>'041 Patent: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 24, 25, 26, 30, 32, 35, 37, 41, 42, 43, 47, 49, 52, 53</p> <p>'147 Patent: 1, 2, 3, 4, 5, 6, 9</p> <p>'311 Patent: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 20, 21, 24, 25, 28</p>	<p>Defined by the remainder of the claim and does not require further construction.</p>	<p>A device that routes storage requests from initiator devices/workstations on one transport medium to target storage devices on the other transport medium and routes data between the initiator devices/workstations and target storage devices.</p>	<p>Defined by the remainder of the claim and does not require further construction.</p>
<p>Remote (Page 26 of attached SM CC Chart)</p> <p>'035 Patent: 1, 11</p> <p>'041 Patent: 1, 2, 3, 4, 7, 12, 13, 19, 20, 21, 22, 23, 26, 31, 32, 37, 38, 39, 40, 43, 48, 49, 53</p> <p>'147 Patent: 1, 4, 10, 13, 14, 15, 17, 18, 19, 21, 28, 34</p> <p>'311 Patent: 1, 5, 9, 16, 19, 21, 25</p>	<p>Indirectly connected through at least one serial network transport medium.</p>	<p>Indirectly connected through a storage router to enable network connections from [devices/Fibre Channel initiator devices/workstations] to storage devices at a distance greater than allowed by a conventional parallel interconnect.</p>	<p>Indirectly connected through at least one serial network transport medium.</p>

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<p>Storage Device(s) (Page 45 of attached SM CC Chart)</p> <p>'035 Patent: 1, 4, 7, 9, 10, 11, 12, 14</p> <p>'041 Patent: 1, 2, 3, 4, 7, 12, 13, 19, 20, 21, 22, 23, 26, 31, 32, 37, 38, 39, 40, 43, 48, 49, 53</p> <p>'147 Patent: 1, 4, 6, 8, 9, 10, 13, 14, 15, 17, 18, 19, 21, 22, 24, 25, 26, 28, 29, 31, 32, 33, 34, 35, 36, 37, 38</p> <p>'311 Patent: 1, 5, 9, 16, 19, 21, 25</p>	<p>Any storage device, including, for example, a tape drive, CD-ROM drive, an optical drive or a hard disk drive.</p>	<p>An electronic device that stores data, including for example, a tape drive, CD-ROM drive, an optical drive or a hard disk drive.</p>	<p>Any storage device, including, for example, a tape drive, CD-ROM drive, an optical drive or a hard disk drive.</p>
<p>Interface between; Interface with a [first transport medium]; and interface with [a second transport medium] (Page 47 of attached SM CC Chart)</p> <p>'035 Patent: 1, 10</p> <p>'041 Patent: 1</p> <p>'147 Patent: 1, 9, 14, 21</p> <p>'311 Patent: {None}</p>	<p>Does not require construction.</p>	<p>Directly connect with / directly connect between</p>	<p>Does not require construction.</p>

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<p>First Transport Medium / First [Fibre Channel] Transport Medium (Page 68 of attached SM CC Chart)</p> <p>'035 Patent: 1, 2, 5, 7, 10, 11, 12, 13</p> <p>'041 Patent: 1, 2, 4, 6, 7, 10, 11, 13, 14, 16, 19, 20, 21, 23, 25, 26, 29, 30, 32, 33, 35, 36, 37, 38, 40, 42, 43, 46, 47, 49, 50, 52, 53</p> <p>'147 Patent: 1, 6, 9, 10, 14, 18, 21, 28, 34</p> <p>'311 Patent: 1, 5, 7, 8, 9, 10, 12, 15, 16, 19, 21, 23, 24, 25, 26, 28</p>	<p>A first communications link.</p>	<p>The phrase “transport medium” has the plain and ordinary meaning as understood by a person of skill in the art. The “second [Fibre Channel] transport medium” is physically separate from the “first [Fibre Channel] transport medium.”</p>	<p>The phrase “transport medium” has the plain and ordinary meaning as understood by a person of skill in the art. The “second [Fibre Channel] transport medium” is physically separate from the “first [Fibre Channel] transport medium.”</p>
<p>Second Transport Medium / Second [Fibre Channel] Transport Medium (Page 71 of attached SM CC Chart)</p> <p>'035 Patent: 1, 6, 7, 10, 11</p> <p>'041 Patent: 19, 20, 36, 53</p> <p>'147 Patent: 1, 6, 9, 10, 14, 21, 28, 34</p> <p>'311 Patent: 1</p>	<p>A second communications link that is physically separate from the first transport medium.</p>	<p>The phrase “transport medium” has the plain and ordinary meaning as understood by a person of skill in the art. The “second [Fibre Channel] transport medium” is physically separate from the “first [Fibre Channel] transport medium.”</p>	<p>The phrase “transport medium” has the plain and ordinary meaning as understood by a person of skill in the art. The “second [Fibre Channel] transport medium” is physically separate from the “first [Fibre Channel] transport medium.”</p>

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<p>Supervisor Unit (Page 74 of attached SM CC Chart)</p> <p>'035 Patent: 1, 2, 10</p> <p>'041 Patent: {None}</p> <p>'147 Patent: 1, 2, 9, 14, 15, 17, 19, 34, 35, 38</p> <p>'311 Patent: {None}</p>	<p>A processing device that controls operation of the storage router, including handling mapping and access controls.</p>	<p>A device comprising at least: (1) a microprocessor, incorporating independent data and program memory spaces; and (2) associated logic required to implement a standalone processing system and programmed to process data in a buffer in order to map between devices and which implements access controls.</p>	<p>A device comprising at least: (1) a microprocessor, incorporating independent data and program memory spaces; and (2) associated logic required to implement a standalone processing system and programmed to process data in a buffer in order to map between devices and which implements access controls.</p>
<p>Map/Mapping (Page 78 of attached SM CC Chart)</p> <p>'035 Patent: 1, 7, 10, 11</p> <p>'041 Patent: 1, 2, 4, 5, 6, 9, 16, 20, 21, 23, 24, 25, 28, 35, 37, 38, 40, 41, 42, 45, 52</p> <p>'147 Patent: 1, 6, 9, 10, 14, 15, 16, 17, 21, 22, 23, 24, 28, 29, 30, 31, 34, 35, 36</p> <p>'311 Patent: 1, 4, 6, 12, 16, 19, 20, 22, 28</p>	<p>To create a path from a device on one side of the storage router to a device on the other side of the router. A "map" contains a representation of devices on each side of the storage router, so that when a device on one side of the storage router wants to communicate with a device on the other side of the storage router, the storage router can connect the devices.</p>	<p>To create a known path for block-addressed data and commands from a particular device on one side of the storage router to a particular remote physical storage device on the other side of the router. A "map" contains a representation of the particular devices on each side of the storage router, so that before a particular workstation/device on one side of the storage router tries to communicate with a particular remote physical storage device on the other side of the storage router, the storage router already has stored a path from the</p>	<p>To create a path from a device on one side of the storage router to a device on the other side of the router. A "map" contains a representation of devices on each side of the storage router, so that when a device on one side of the storage router wants to communicate with a device on the other side of the storage router, the storage router can connect the devices.</p>

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		particular workstation/device to the particular remote physical storage device over which the storage router will route block-addressed requests and data between the devices.	
<p>Implement(ing) (s) access controls for storage space on the (remote) storage devices (Page 113 of attached SM CC Chart)</p> <p>'035 Patent: 1, 7, 10, 11</p> <p>'041 Patent: {None}</p> <p>'147 Patent: 1, 6, 9, 10, 28</p> <p>'311 Patent: {None}</p>	<p>Provides controls which limit a [device/Fibre Channel initiator device/workstation]'s access to a specific subset of storage devices or sections of a single storage device according to a map.</p>	<p>Provide/providing controls that limit a [device/Fibre Channel initiator device/workstation]'s access to a specific subset of storage devices or sections of a single storage device according to a map for the [device/Fibre Channel initiator device/workstation].</p>	<p>Provides controls which limit a [device/Fibre Channel initiator device/workstation]'s access to a specific subset of storage devices or sections of a single storage device according to a map.</p>
<p>Access Controls (Page 117 of attached SM CC Chart)</p> <p>'035 Patent: 1, 7, 8, 10, 11</p> <p>'041 Patent: {None}</p> <p>'147 Patent: 1, 6, 7, 9, 10, 28, 34</p> <p>'311 Patent: {None}</p>	<p>Controls which limit a [device/Fibre Channel initiator device/workstation]'s access to a specific subset of storage devices or sections of a single storage device according to a map.</p>	<p>Controls which limit a [device/Fibre Channel initiator device/workstation]'s access to a specific subset of storage devices or sections of a single storage device according to a map for the [device/Fibre Channel initiator device/workstation].</p>	<p>Controls which limit a [device/Fibre Channel initiator device/workstation]'s access to a specific subset of storage devices or sections of a single storage device according to a map.</p>

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