

- Claims 10 through 19 are dependent claims that further limit the scope of claim 6. Accordingly, because they add additional limitations to claim 6, they do not broaden the scope of original claim 6.
- Claim 20 adds three additional limitations to original claim 6:
  - Ethernet network;
  - Ethernet data node; and
  - the additional step: (d) determining whether the access device is capable of accepting remote power based on the sensed voltage level.

Because all of the limitations of claim 6 are included in new claim 20, claim 20 does not broaden the scope of original claim 6.

- Claim 21 (a) adds the additional limitation “Ethernet data network,” and (b) replaces the phrase “low level current” with the Board’s construction of “low level current” (“a current that is insufficient, in itself, to operate the access device”). Replacing a phrase with the construction of the phrase does not change the scope of the claim in which the phrase is found and therefore does not broaden the scope of the claim.
- Claim 22 sets forth all of the limitations of claim 6 as an apparatus claim rather than a method claim. As demonstrated in the following chart, claim 22 does not expand the scope of original claim 6 because all limitations in original claim 6 are found in proposed claim 22:

<u>Original Claim 6</u>	<u>New Claim 22:</u>
Method for remotely powering access equipment in a data network, comprising,	Apparatus for remotely powering access equipment in a data network, comprising:
[a] providing [i] a data node adapted for data switching,	[a] a data node adapted for data switching,
[ii] an access device adapted for data transmission,	[b] an access device adapted for data transmission,

<p>[iii] at least one data signaling pair connected between the data node and the access device and arranged to transmit data therebetween,</p>	<p>[c] at least one data signaling pair connected between the data node and the access device and arranged to transmit data therebetween,</p>
<p>[iv] a main power source connected to supply power to the data node, and a</p>	<p>[d] a main power source connected to supply power to the data node and deliver a low level current from said main power source to the access device over said at least one data signaling pair resulting in a voltage level on the data signaling pair that can be sensed in response to the low level current,</p>
<p>[v] secondary power source arranged to supply power from the data node via said data signaling pair to the access device,</p>	<p>[e] a secondary power source arranged to supply power from the data node via said data signaling pair to the access device, wherein the power supplied by said secondary power source to the access device is controlled in response to a preselected condition of the sensed voltage level.</p>
<p>[b] delivering a low level current from said main power source to the access device over said data signaling pair,</p>	<p>[d] a main power source connected to supply power to the data node and deliver a low level current from said main power source to the access device over said at least one data signaling pair resulting in a voltage level on the data signaling pair that can be sensed in response to the low level current,</p>
<p>[c] sensing a voltage level on the data signaling pair in response to the low level current,</p>	<p>[d] a main power source connected to supply power to the data node and deliver a low level current from said main power source to the access device over said at least one data signaling pair resulting in a voltage level on the data signaling pair that can be sensed in response to the low level current,</p>
<p>[e] controlling power supplied by said secondary power source to said access device in response to a preselected</p>	<p>[e] a secondary power source arranged to supply power from the data node via said data signaling pair to the access</p>

condition of said voltage level.	device, wherein the power supplied by said secondary power source to the access device is controlled in response to a preselected condition of the sensed voltage level.
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- Claim 23 sets forth all limitations of claim 6 from the perspective of the claimed “access device” rather than the claimed “data node,” for example, “delivering” becomes “receiving.” As demonstrated in the following chart, claim 23 does not expand the scope of original claim 6 because all limitations in original claim 6 are found in claim 23:

<b><u>Original Claim 6</u></b>	<b><u>New Claim 23:</u></b>
Method for remotely powering access equipment in a data network, comprising,	Method for remotely powering access equipment in an Ethernet data network, comprising:
[a] providing [i] a data node adapted for data switching,	[b] connecting said access device to at least one data signaling pair connected between the access device and a data node adapted for data switching, wherein said at least one data signaling pair is arranged to transmit data therebetween;
[ii] an access device adapted for data transmission,	[a] providing an access device adapted for data transmission;
[iii] at least one data signaling pair connected between the data node and the access device and arranged to transmit data therebetween,	[b] connecting said access device to at least one data signaling pair connected between the access device and a data node adapted for data switching, wherein said at least one data signaling pair arranged to transmit data therebetween;

<p>[iv] a main power source connected to supply power to the data node, and a</p>	<p>[c] receiving at said access device a low level current from a main power source over said data signaling pair, wherein said main power source is connected to supply power to the data node; and wherein a voltage level is generated on the data signaling pair in response to the low level current,</p>
<p>[v] secondary power source arranged to supply power from the data node via said data signaling pair to the access device,</p>	<p>[e] receiving at said access device controlled power supplied by a secondary power source arranged to supply power from the data node via said data signaling pair to the access device, in response to a preselected condition of said voltage level;</p>
<p>[b] delivering a low level current from said main power source to the access device over said data signaling pair,</p>	<p>[c] receiving at said access device a low level current from a main power source over said data signaling pair, wherein said main power source is connected to supply power to the data node; and wherein a voltage level is generated on the data signaling pair in response to the low level current.</p>
<p>[c] sensing a voltage level on the data signaling pair in response to the low level current,</p>	<p>[d] producing a voltage level on the data signaling pair in response to the low level current, wherein said voltage level can be sensed;</p>
<p>[e] controlling power supplied by said secondary power source to said access device in response to a preselected condition of said voltage level.</p>	<p>[e] receiving at said access device controlled power supplied by a secondary power source arranged to supply power from the data node via said data signaling pair to the access device, in response to a preselected condition of said voltage level;</p>

**XII. Conclusion.**

As demonstrated above, none of the Reexamination Reference anticipate or make obvious the Challenged Claims of the '930 Patent and the proposed new claims. Accordingly, the Patent Owner respectfully requests reconsideration and allowance of all pending claims.