

CLAIMS

What is claimed for is:

1. A Two-sided magnetic connector power cable relying on magnetic force to contact both end with specify device magnetic tips for difference type of devices. The cable and connector can be used as part of a power cable for connecting an electronic device, such as a Smartphone, table, laptop computer, to a power supply & data-transfer. The cable connector & connector tips both have magnetic element and/or a locking mechanism for the connector tip, which is preferably a rare earth neodymium magnets (Grade: N52) although electromagnets may also be used and combining magnetic fields on a same suffice to prevent wrong side between positive & negative contact. The two-sided cable connector can flow in either direction to contact with connector tips. In addition, the connector and/or cable may include a processor, an integrated circuit, an indicator, an LED and/or a user interface.

2. The Device connector as claimed in claim 1 has the following features:

- Speed Charging- The charging speed is increased by the cable connectors
- Smart Indicator-The Smart Indicator indicates the charging status of the user's phone.
- Strong Magnetic-Powerful magnetic suction
- Power stabilizer- Power is stabilized as soon as the phone of the user is fully charged.
- Connectors Interchangeable- Power, charging and Data Transfer between Devices.
- Surge Protection-Protects the phone of the user from power overload.

3. The Device Connector as claimed in Claim 1 may include a processor, a microprocessor, and the like. The processor may provide impedance matching. The impedance matching may be achieved by adjusting attributes associated with the cable.

4. The processor as claimed in claim 3 may regulate thermal management, reduce cross talk, reduce noise and electromagnetic interference, facilitate switching among various circuits, provide status information, and the like.

5. The Status Information as claimed in claim 4 may be provided by a display. The display may include at least an LED. The LED may be multi-colored LED and may provide a feedback information to a user. In embodiments, the methods and systems may include a cable having a data transmission wire, a device connector mechanically attached to the device connector port, a magnetic element having a shape suitable for mating with a device side of the device connector tip, and a double-sided adhesive element having a shape suitable for mating with the magnetic element. The cable may have a device connector end. One side of the double-sided adhesive element may be adhered to the magnetic element, and the other side of the adhesive element may be used for adhering to a device.

6. The Two-sided Device connector as claimed in Claim 1 has following components:

- USB Type A connector tip with magnetic element
- USB Type C connector tip with magnetic element
- USB Micro connector tip with magnetic element
- USB Mini connector tip with magnetic element
- Magnets at the cable connector
- Microprocessor
- LED indicator
- Pin with spring to contact with tip connector
- Magnets at the tip connector
- Pin connector for Type A connector tip

7. The Two-Sided Device Connector as claimed in claim 1 also comprises the following components which can turn the device into a standard cable:

- A Hook and/or Clip Slot;
- Slider Hook and/or Clip;
- Lock Slider