Cordless Kitchen
A powerful new kitchen concept

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Holland MI, September 16 2015
A family breakfast
Did you notice the “magic spots”? 

John places the toaster on the magic spot… 

..while the children bring the eggs and the egg cooker.
John makes toast…

..while mom prepares tea.
John removes the toaster…

..James puts the egg cooker on the magic spot.
The eggs are ready; James removes the egg cooker…

John is getting coffee …

The teapot is kept warm ..
They enjoy a nice family breakfast!

The coffee is kept warm ..
The Kitchen Work Group

- Based on an initiative by Haier and Philips

- Charter:
  - The Kitchen Work Group will develop specifications of an interface between cordless kitchen appliances and inductive power sources for powering these appliances.
  - The desired features of these specifications are described in the agreed commercial requirements dated March 7\textsuperscript{th}, 2013.
The specifications will enable a whole new class of cordless appliances. These appliances will be easy to handle, easy to clean and easy to store. Rather than a conventional wall power socket, these appliances need an inductive power source to be powered.

Appliance in control

The cordless kitchen specifications will feature a feed-back loop from appliance to transmitter. Controls (On/off, more/less, temperature, timer) are on the appliance.
Inductive power sources (transmitters) may be stand alone or integrated in the kitchen counter tops or dining tables.

Transmitters could combine the Wireless Power transfer to an appliance with conventional Inductive Heating.
Inductive Power Transfer (IPT)

Power may be transferred with induction using a primary coil (in the transmitter) and a secondary coil (in the appliance). This will be the designated method for motor driven appliances.

Induction Heating (IH)

Power (heat) may be transferred directly into the metal base of an appliance by induction heating. This method may offer advantages (e.g. cost, efficiency, shielding) for cordless heating appliances such as kettles.
Why do we need a standard?

1. **Avoid brand lock in**
   - Consumers can buy whatever appliance brand they like
   - Kitchen installer can choose from multiple suppliers

2. **Consumers want interoperability**
   - Appliances can be moved around in the kitchen or in the house.
   - Appliances still work when moved to another house
   - A logo will indicate interoperability
   - Interoperability will drive adoption

3. **Create a market for inductive power sources and components**
   - Consumers will profit from the economies of scale
What Benefits will it bring to consumers?
Convenient & Clean

- Tidy counter top, tidy kitchen: looks great!
- Kitchen countertop easy to clean
- Appliances are easy to clean
  → Appliances may be sealed and could be rinsed or put in the dishwasher!
• “Hot Spots” can be installed in multiple locations: in the countertop and in the (kitchen) table.

• Appliances can be moved to the table and work there as well.
Space efficient

Appliances easy to store

No need for a space consuming stove in a small kitchens
• Fulton Innovation (2009)
Functional models

- Haier (2013)
Functional models

- Philips (2014)
Functional models

- Panasonic (2015)

Picture removed
Functional models

- LG (2015)

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Functional models

- Philips (2015)