MOBILE+

The graphic below, of which features and functionalities are detailed and explained in the succeeding pages, is a tablet looking device that not only sports the modern tablet with similar features and functionalities but also with extended functionalities such as printing, faxing, scanning and email; a 39MP video-camera, with IR to shoot or record in the dark, SSD internal storage, as well as SDXC up to 256GB. The "BUTTON" looking keys are for display purpose only. The device is touch screen; the location of particular keys is suggestive.

MOBILE+

New inkless print technologies (or the latest printing technology at time of prototype and/or manufacture) to be integrated into the device (MOBILE+). Both the left and the right bottom parts of the unit are fitted with mini-covers that will open automatically upon command to print or to scan; papers will be fed into the unit from one side and will come out at the other side. The mini-covers are operated via command in order to avoid accidental locking in the open position ; mini-covers may be retracted, slided or flipped.
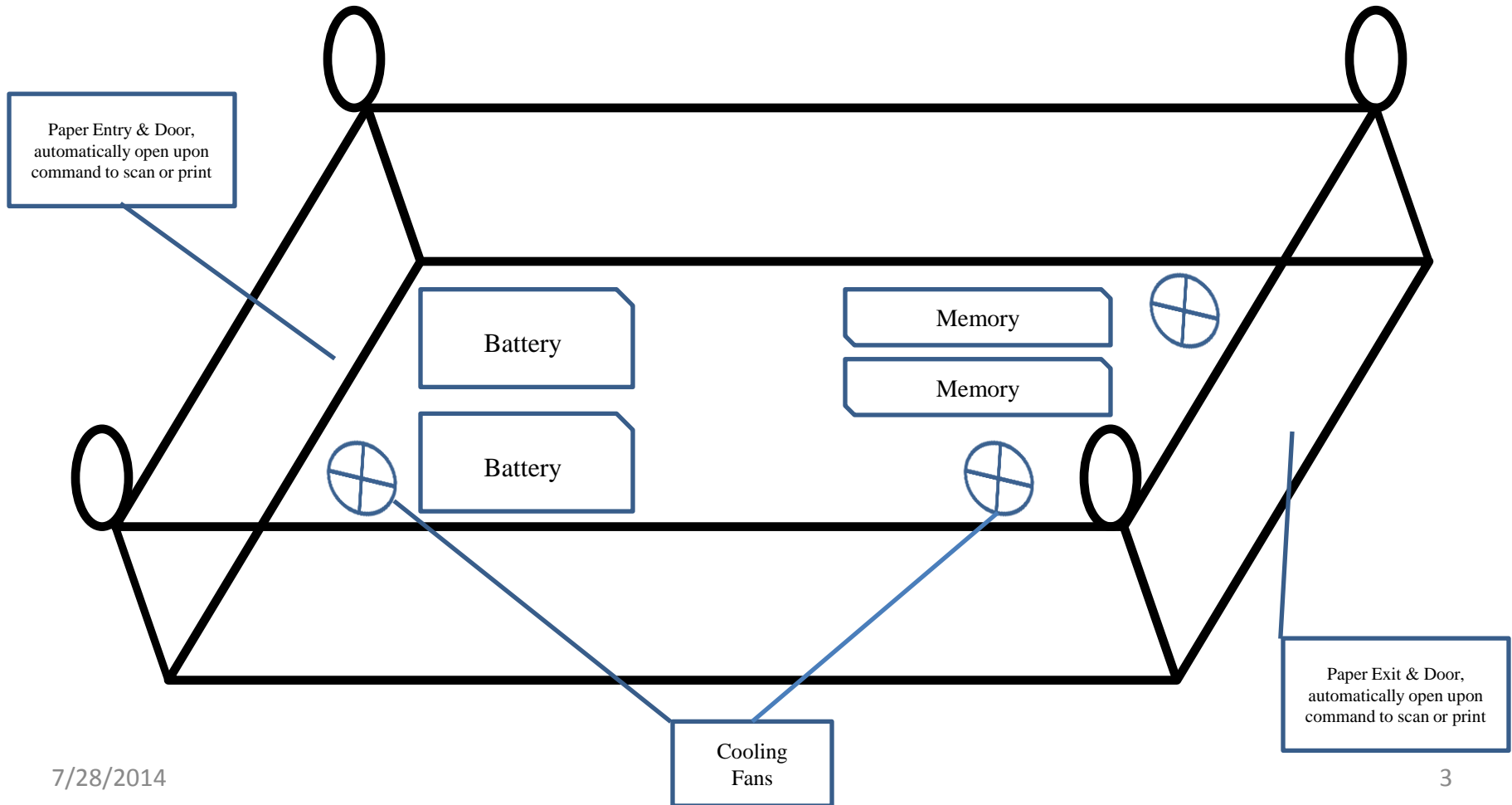
Upon completing the task of printing or scanning, both mini-covers are automatically closed; the mini-covers are to prevent dust from accumulating inside the unit.

The unit is built in various sizes based on research and/or demand now (and in the future) in the market. Other technologies that may be integrated into the device are ssd drive, wifi, audio, bluetooth, mini-usb, mini-hdmi, card reader, memstick,lte,fiber.

Bottom

The MOBILE+ device will be fitted with 1 or 2 batteries, as well as memory storage as illustrated. When a device is docked into the MOBILE+, it is being charged if the MOBILE+ is plugged into an electrical source or if the user chooses to do so. The memory serves as holding areas for prints, faxes and inputs. Both the batteries and memory can be replaced by the user. Memory may be SSD. Battery is rechargeable.

Paper Entry & Door, automatically open upon command to scan or print

Battery

Battery

Memory

Memory

Paper Exit & Door, automatically open upon command to scan or print

Cooling Fans

Product Look & Functionalities

Encasing

Encasing is made of a material or combination of materials that help keep the weight of the device to a minimum; material may be aluminum, glass, hard plastic, others, as long as they are suitable for the purpose. This is very important as the goal is to keep the total weight to no more than 2lbs, but preferably much less.

Top

The exterior (top) part of the product comprises two sections:

- A (physical) docking section that can accommodate a smartphone of various sizes up to the size of the device within a few centimeters.
- A (virtual) part which is the surface of the device, fully touch sensitive. The BUTTON looking keys are for display only. Like any tablet, the device is able to display characters, images, videos, etc. What differentiate Mobile+ from other tablets are the extended functionalities.

Sides

Both the left and the right sides are fitted with small/mini covers to prevent dust from accumulating inside the device.

The covers (small/mini covers) are operated via commands: software, Keys pressed, voice, or other technology means.

Either (or both sides) as well as front and back sides may be used to integrate technologies such as:

Bluetooth, WiFi, USB, HDMI, audio, Card Reader, microSD, DLNA, LTE, Fiber and any other available technology suitable for a portable device.

Product Look & Functionalities

Bottom

The bottom part of the device provides access to batteries and memory, both of which may be inserted or replaced by the user. The batteries are also rechargeable. The device can operate with or without battery. Without battery, the device MUST be plugged into an electrical outlet or a USB port that can provide the necessary electrical charge needed for the device to be operational. Cooling fans may be integrated into the device. That option to be determined during prototype design.

Note: To make the battery and/or the memory irreplaceable is not a differentiation from this device.

The Inside/Interior

The interior comprises a number of circuitries that provide the functionalities accessed via the exterior connectors or ports, including over the air (Bluetooth, WiFi or any other technology at time of manufacture):
Circuitry that enables printing with/without ink technology (wired or unwired: Bluetooth, wifi, lte, cloud,etc.)
Circuitry that enables scanning of document, storing the content, converting the content, printing the content
Circuitry that enables communicating with other devices: Bluetooth, wifi, rj45, etc…
Circuitry that enables touch sensitive surface (glass, other)
Circuitry that enables inputs (keystrokes, voice, disk, sd, reader, etc…)
Circuitry that enables reading/writing of storage media such as dvd-rw/blu-ray, ssd, sdhc, sdxc

NOTE: There are 2 major aspects in implementing the functionalities discussed above
1) in a Keyboard style (with virtual keys), providing capability to dock either a phone or a tablet (or both) into the device which will act as input to the phone or the tablet; when docked, the phone or the tablet battery will be recharged, even if it's in use.
2) In Tablet form with all the expected functionalities (of a tablet) in addition to those aforementioned earlier in this document.