MENU WITH APPLICATIONS

Flexible LCD display (with sample map application)

Microphone

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Phone is shaped like a pen and held like a regular cell phone (for ease of transition). Calls can be made through voice-dial or through the phonebook display. The key component is the flexible, touch-screen display that can be solid or semi-transparent to allow the environment to show through. Applications are listed below:

- Maps, Internet Browser, E-mail, etc. (standard smart phone functions)
- Phonebook
  - You can trade numbers by touching phones to each other.
- Data exchange
  - You can get contacts, pictures, files, etc. by placing one phone over another (overlapping the rolled-out displays). Files will display on the bottom phone and the top phone will have a semi-transparent screen so the files “show-through.” They can be transferred by simply selecting them on the top phone.
- Environmental information
  - Phone can be used with semi-transparent display to get more information on environmental objects. For instance, you may hold it up to a building and get the structure’s name, architect, purpose, etc. Using it in a grocery store will show you which items are on the food list. While shopping, you can see product prices and reviews.
- Notepad
  - Notepad will work just like using a regular sheet of paper except with a stylus instead of pen/pencil. Since display is larger, it’s possible to actually use it for handwriting.
- Video conferencing
  - Phone will use an advanced 22nd century technology to extract a person from their surroundings, so you can speak to someone and see them in your environment through the display. This will make it more comfortable to talk and collaborate.

Target user group will be advanced users and business people at first, but eventually the aim would be for all cell phone users to adapt the technology.

The motivation for such a design is to bring the environment into the cell phone and allow multiple modes of use. The primary function, calling, can be done quite simply. Additional tasks require the screen to be unrolled, but also provide easy functionality by eliminating some data entry (less typing).