

LRT

Wide - Folding - Pocket Size

registered name and patent

MOBILE PHONE – NAVIGATION SYSTEMS - HANDHELDS - PLAYERS

HI-FI's - PORTABLE TELEVISIONS - MINICOMPUTERS - ETC.

These appliances have a large surface but are pocket size, designed for the greatest ergonomics and functions in the following positions:

A) **STAND BY** in a pocket

B) **DYNAMIC OPERATION** in your hands

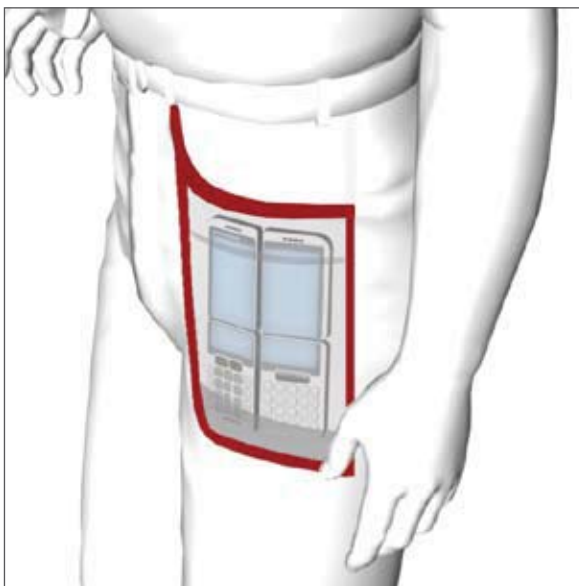
A) **STAND BY** in a pocket:

- folding
- wide

• **FOLDING**

In the **STAND BY** position, the **CROSS** system that provides **FOLDING** on 2 orthogonal axes (at right-angles to each other) along with the operational pivot on each side of the appliance enables adapting to all the **BENDING** that this type of appliance in a pocket must suffer due to the various unpredictable movements of the body.

1



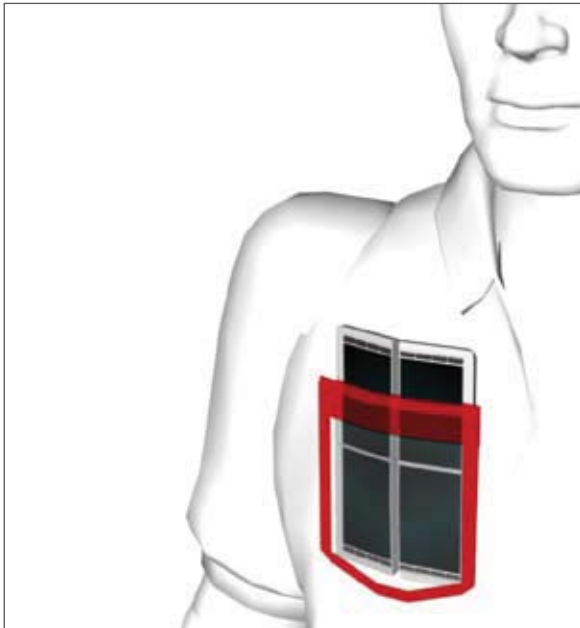
LRT in a front trouser pocket

2



LRT in a back trouser pocket

3



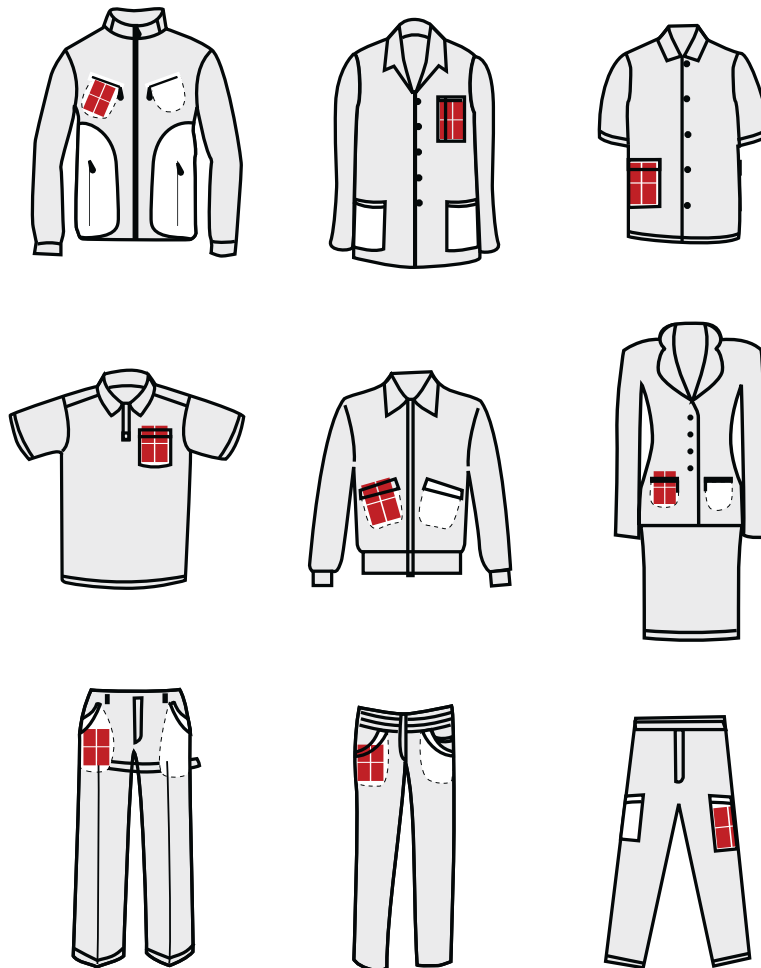
LRT in the small pocket of a shirt or T-shirt

- **WIDE**

(which in this case means: overall dimensions)

The maximum width of the various LRT appliances permitted by POCKETS or COMPARTMENTS, in different types of clothing, is a DISTINGUISHING FEATURE.

These APPLIANCES are, when they are on Stand By, designed to occupy all the space available in the pockets or compartments that we all habitually use (according to our clothing in the different seasons), for the various types of appliance that we intend to carry.



In each article of clothing, LRT always finds its optimal position

LRT appliances, since they use the greatest SURFACE AREA POSSIBLE that is the size of the pockets of the various types of clothing, have much more surface available for the various operations, specific for each type of POCKET APPLIANCE; namely KEYPADS – DISPLAYS - VIDEO - etc.

They therefore have a much greater surface available, but with the major difference, compared to traditional pocket appliances of this size, that this large surface is not in a rigid block, incompatible with a person's dynamic needs and movements; instead it is available in a folding mass that is ergonomically designed to accompany a person's dynamics and movements.

LRT appliances don't move, annoyingly unchecked, in the compartments containing them since they take up all, or almost all, the available space, therefore they are "self-locking." In the case of open "pockets" (for instance those of jackets or shirts), Velcro tape can be used (one part on the fabric and one part on the appliance), to prevent any chance of it falling out.

Using the LRT system, much of the size, mass or thickness of pocket, concentrated and/or miniaturized appliances is distributed instead over a large surface and accordingly they become "ultra-flat," so much as to be able to fit (for instance in the very small size) even into a normal wallet.



Example of application of the patent: WALLET SIZE MOBILE PHONE

On the other hand, on the contrary to the possibility of having even small "ultra-flat" appliances, since LRT appliances are both WIDE and FOLDING, they can make even quite thick appliances POCKET SIZE and ERGONOMIC, such as for instance "mini-televisions, minicomputers, etc."



Example of application of the patent: MINI-TV

B) DYNAMIC OPERATION in your hands:

- folding
- display
- ergonomic

• **FOLDING**

LRT appliances, as already mentioned, stand out for their “FOLDING” that is derived from and processed by “FLEX CABLE” TECHNOLOGY that enables accomplishing the “HINGE” FUNCTION (between the parts of the appliance separated from each other by the CROSS), with the SAME SUPPORT that contains the electric connections.



Folding electronic instrument

Folding, as you can see, makes continual manual operation fully ergonomic as we have already seen for the stand by position.

- **DISPLAY**

The LTR system, as has already been underlined, considerably increases the available display and therefore increases the visibility of text and images, because it uses more than one display.

- CONVENTIONAL DISPLAYS

(that is with a "substantial" surrounding matt frame)

As per current Standards, each of these displays produces its own information separately according to the conventional software provided.

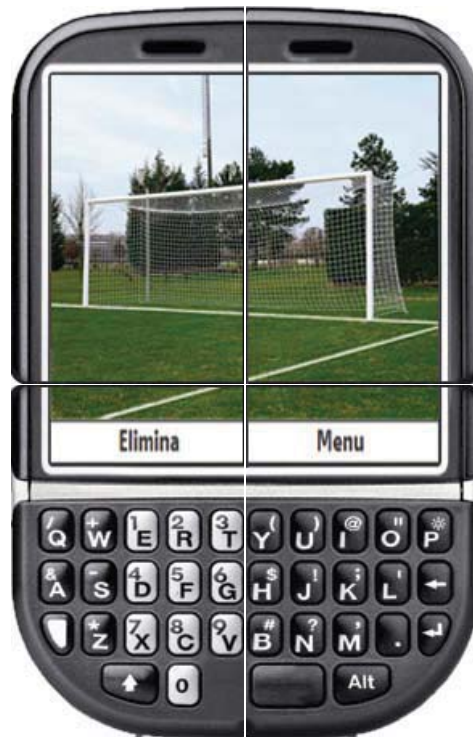
But by using specific software when (with the LRT system) a number of displays are placed side by side, there can also be interesting "Full Visibility" and this is, despite there being a break between one display and the next, due to the frames surrounding the display.



The display of an image or text can be extended to the 4 conventional displays, that is according to the current "standard" that uses rather large "frames to contain" the "mass of diodes" of the DISPLAYS.

- ADVANCED ("FULL FIELD") DISPLAYS

(that is with virtually nonexistent frames containing the "mass of diodes")



"Full Vision" with combined "FULL FIELD" displays placed side by side, ALMOST WITHOUT ANY SOLUTION OF CONTINUITY, for using instead new DISPLAYS, such as OLED for instance, but of any type, that in any case allows minimizing (and with certain applications almost eliminating) the THICKNESS of the material "containing" the "mass of diodes."

Then, as regards new DISPLAYS, including the latest generation ones that we will call "INTEGRAL" (near future) that fold or roll up for instance, using the LRT system will still be advantageous.

The PIVOT that completely flips 180° the parts of the appliance that are DIVIDED by the "CROSS" completely eliminates the SIZE of the bends for "FOLDING BACK" or "ROLLING UP"; and in the case of ultra-flat DISPLAYS, the danger of the ELECTRICAL CONNECTIONS breaking "DUE TO REPEATEDLY FOLDING BACK" is greatly reduced.

This is because in the LRT system, the "connection" is in any case "DESIGNED and CALIBRATED" for continual FOLDING.

- **ERGONOMIC**

The LRT appliance that can be folded back along its orthogonal axes vertically or horizontally halves the dimensions of the surface.

In this way, the considerable width of the LRT appliance that, precisely because of this large space, enables the many functions (keypads, displays, cameras, etc....) and placement in pockets or compartments is never an "ergonomic" problem.

When it is necessary (and for MOBILE PHONES it is always necessary) the appliance is used folded back and naturally even with just one hand, exactly as for conventional cell phones.



for phoning



for managing stored data