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• **SHARP MICROELECTRONICS TECHNOLOGY,
INC.**
Camas, WA 98607 (US)

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(72) Inventor: **Uetake, Tatsuya**
Tokyo 124-0006 (JP)

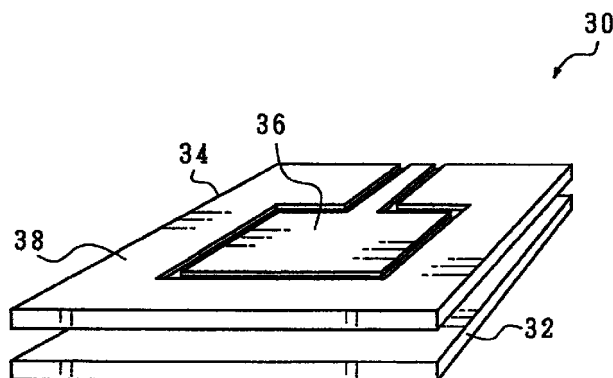
(71) Applicants:
• **Sharp Kabushiki Kaisha**
Osaka-shi, Osaka 545-8522 (JP)

(74) Representative:
MÜLLER & HOFFMANN Patentanwälte
Innere Wiener Strasse 17
81667 München (DE)

(54) **Transparent planar antenna structure**

(57) A transparent planar antenna for use over the LCD of a wireless communications unit is provided. The transparent planar antenna is fabricated from a thin film of metal mounted on a transparent insulator. The metal film is etched into either a grid or mesh structure. By proper choice of line widths and the spacing between lines, the conductive surface is made both transparent, and resonant to the opening frequency of the wireless unit. Because of the low resistance of the conductive surfaces, the resulting transparent antenna has substantially the same performance characteristics as traditional patch type antennas.

FIG. 1



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EUROPEAN SEARCH REPORT

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Place of search THE HAGUE		Date of completion of the search 10 October 2000	Examiner Ribbe, J
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