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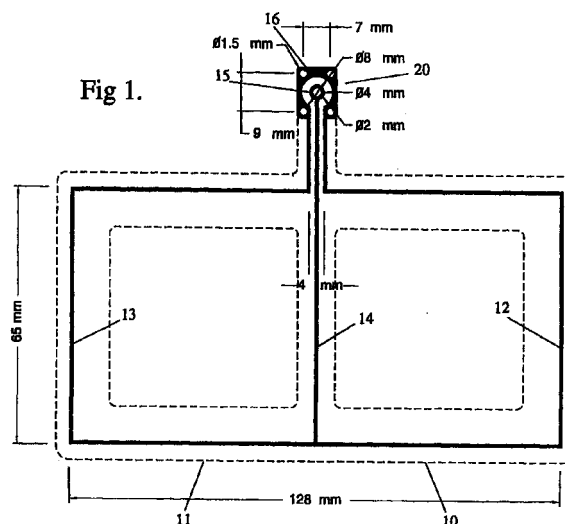
(71) Applicant: **Vernon, Peter**
Maroubra, NSW 2035 (AU)

(72) Inventor: **Vernon, Peter**
Maroubra, NSW 2035 (AU)

(74) Representative:
Patentanwälte
Westphal, Mussnug & Partner
Waldstrasse 33
78048 Villingen-Schwenningen (DE)

(54) **Planar antenna device and a method for providing conductive elements on a substrate**

(57) A antenna arrangement is disclosed for use in vehicles and other application where the antenna can be affixed to a surface, e.g. a window. The antenna 10 is formed from 2 square elements 12,13, defined within a rectangle. Additional square elements 17, 18 may be defined within the other square elements. The dimensions may be chosen so as to maximise gain for selected radio frequencies. Also disclosed is a method for providing conductive elements on a substrate, including printing a conductor pattern onto a substrate using conductive ink, and using the deposited pattern as a electrode for an electroplating process.



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EUROPEAN SEARCH REPORT

Application Number
EP 98 11 6584

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The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 12 April 1999	Examiner Felgel-Farnholz, W-D
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EUROPEAN SEARCH REPORT

Application Number
EP 98 11 6584

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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