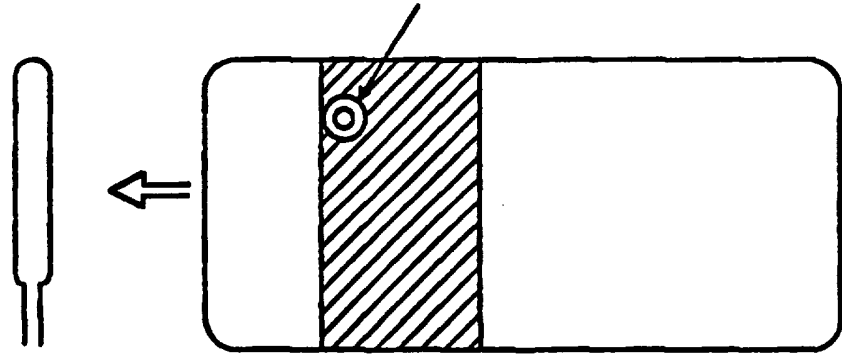




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification⁶ : G01V 3/14, G06K 19/12, G07D 7/00, G01R 33/44, G01V 15/00</p>	<p>A3</p>	<p>(11) International Publication Number: WO 96/05522 (43) International Publication Date: 22 February 1996 (22.02.96)</p>
<p>(21) International Application Number: PCT/EP95/03157 (22) International Filing Date: 9 August 1995 (09.08.95) (30) Priority Data: 110,597 9 August 1994 (09.08.94) IL (71) Applicants (for all designated States except US): MICRO TAG TEMED LTD. [IL/IL]; Temed Industrial Park, 86800 D.N. Arava (IL). RAPAPORT, Erich, I. [AT/IL]; 29 Bezael Street, 64683 Tel Aviv (IL). (72) Inventors; and (75) Inventors/Applicants (for US only): ROSENFELD, Yuri [IL/IL]; 228/2 Neve Nof, Yeroham (IL). GILL, David [IL/IL]; 12 Rakanati Street, Tel Aviv (IL). GOLDFELD, Lev [IL/IL]; 14/3 Israel Yeshayahu, Beer Sheva (IL). SHAMES, Alexander [IL/IL]; 4/2 King Azzaya, Beer Sheva (IL). LYANDRES, Vladimir [IL/IL]; 8 Dov Yosef Street, Beer Sheva (IL). (74) Agent: VOSSIUS & PARTNER; Siebertstrasse 4, D-81675 München (DE).</p>	<p>(81) Designated States: AU, BR, CA, JP, NO, NZ, RU, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 23 May 1996 (23.05.96)</p>	
<p>(54) Title: METHOD FOR LABELING, VERIFICATION AND/OR IDENTIFYING AND DEVICE FOR IMPLEMENTING SAID METHOD</p>		
<p>(57) Abstract</p> <p>The invention relates to a method of labeling, authenticating and/or identifying a paper, credit/identification card, bank note, article or any other object using both nuclear magnetic resonance in magnetically ordered materials and nuclear quadrupole resonance phenomena as well as other phenomena of electric/magnetic dipole or tunnel transitions between Stark-Zeeman sublevels, frequencies of which belong to the radio-frequency band. These methods being characterized in that a minor amount of at least one authenticating substance is added to the object, said substance having a strong unique and identifiable response in radio-frequency domain at room temperature, with the spectroscopy being performed in the absence of any supported external static field, and with any specific response (intensity, line width, line shape, splittings, free induction decay, spin echoes or their combinations) being used as a criterion for discrimination. The spectroscopy being performed in time domain (pulse) or frequency domain (continuous wave) with or without intensity, polarization, frequency or any other modulation of the exciting electromagnetic field. The invention also provides instruments for implementing the method, and a set of substances usable with the method.</p>	<p style="text-align: center;">Single Detectable Marker</p>  <p style="text-align: center;">Probe head</p>	

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 95/03157

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 6 G01V3/14 G06K19/12 G07D7/00 G01R33/44 G01V15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 6 G01V G06K G07D G01R G08B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO,A,92 17793 (BRITISH TECHNOLOGY GROUP LIMITED) 15 October 1992 see abstract see page 2, line 3 - page 4, line 22	1,5,12, 22-25
Y	--- -/--	2-4,6,7, 9,11, 13-15

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

11 April 1996

Date of mailing of the international search report

12.04.96

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Horak, G

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 95/03157

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO,A,89 07769 (SCIENTIFIC GENERICS LIMITED) 24 August 1989	2-4,7, 11, 13-15, 40,41
A	see page 1, line 12 - page 12, line 18	1,10,12, 16,19, 22-25, 27,30, 36,43
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP 95/03157

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. CLAIMS : 1-39, 42-45
2. CLAIMS : 40, 41

FOR FURTHER INFORMATION PLEASE SEE FORM PCT/ISA/206 MAILED 18.01.96

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern: al Application No

PCT/EP 95/03157

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