



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
29.09.2004 Bulletin 2004/40

(51) Int Cl.7: **G07D 5/00**

(43) Date of publication A2:
21.04.2004 Bulletin 2004/17

(21) Application number: **03425572.9**

(22) Date of filing: **04.09.2003**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PT RO SE SI SK TR**
Designated Extension States:
AL LT LV MK

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(30) Priority: **04.09.2002 IT rm20020440**

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(54) **Method and device for validation of coins and counters**

(57) The present invention belongs to the class of the devices for material by mean of electrical and magnetic methods.

The method and the device proposed in the present document are aimed to validate coins and counters by means of their value determining and can be used in payphones, automatic distributors, points of payment and various vending machines.

The present document claims universal method and relative device are proposed which use measurement principles of active and reactive parts of the current (or the tension) of electromagnetic sensor contemporarily on more frequencies with relative coin image formation and its identification.

The analyzing element of the device is a sensor composed of one, two or more bobbins connected between them and enveloped the polar extremes of magnetic conductor with a pass bigger the maximal coin thickness. The mentioned polar extremes have in the section a drop form or triangular form with the base corresponding to minimal diameter of the coin and with the altitude corresponding to maximal diameter of the coins. In order to achieve maximal sensibility and to minimize the sensor exposition at electromagnetic disturbs, the magnetic conductor is realized with maximal closure of the magnetic field with calibrated gap aimed for coin passageway or with double polar extremes for compensated measurement schemes or for those of bridge type.

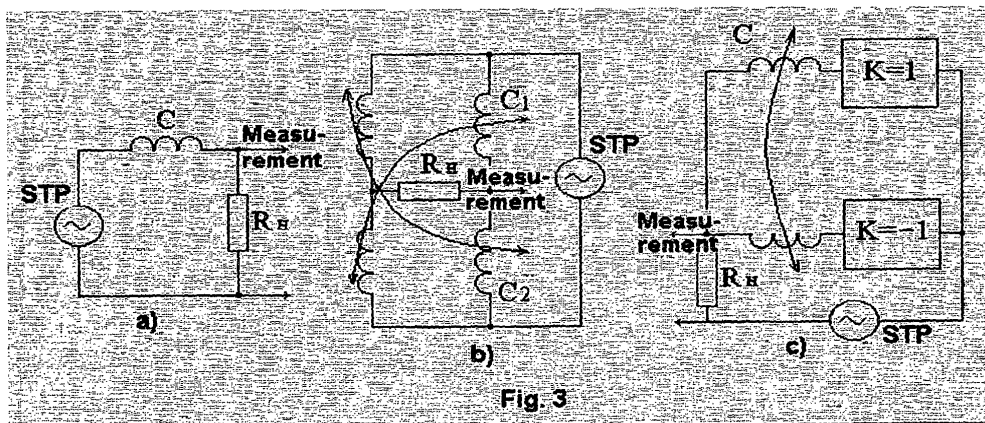


Fig. 3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 03 42 5572

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The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7) G07D G07F G01R
Place of search The Hague		Date of completion of the search 5 August 2004	Examiner Espuela, V
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	

EPO FORM 1503 03.02 (P04001)

ANNEX TO THE EUROPEAN SEARCH REPORT
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