Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2000P19920WO	**FOR FURTHER ACTION**	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/DE01/04166	International filing date (*day/month/year*) 06 November 2001 (06.11.01)	Priority date (*day/month/year*) 06 November 2000 (06.11.00)
International Patent Classification (IPC) or national classification and IPC H04B 3/54, H04L 27/02, H04Q 7/32, H02J 7/02		
Applicant SIEMENS AKTIENGESELLSCHAFT		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 6 sheets, including this cover sheet.

   ☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

   These annexes consist of a total of 5

3. This report contains indications relating to the following items:

   - I ☒ Basis of the report
   - II ☐ Priority
   - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
   - IV ☐ Lack of unity of invention
   - V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
   - VI ☐ Certain documents cited
   - VII ☐ Certain defects in the international application
   - VIII ☐ Certain observations on the international application

Date of submission of the demand	Date of completion of this report
29 May 2002 (29.05.02)	22 January 2003 (22.01.2003)
Name and mailing address of the IPEA/EP Facsimile No.	Authorized officer Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/DE01/04166

I. Basis of the report

1. With regard to the **elements** of the international application:*

☐ the international application as originally filed

☒ the description:

pages 1-12, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

☒ the claims:

pages _____, as originally filed

pages _____, as amended (together with any statement under Article 19

pages _____, filed with the demand

pages 1-13, filed with the letter of 28 November 2002 (28.11.2002)

☒ the drawings:

pages 1/1, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

☐ the sequence listing part of the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
These elements were available or furnished to this Authority in the following language _____ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

☐ the language of publication of the international application (under Rule 48.3(b)).

☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____

☒ the claims, Nos. 14

☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* *Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).*

** *Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.*

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/DE 01/04166

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims		**YES**
	Claims	1 - 5, 8, 11, 13	**NO**
Inventive step (IS)	Claims		**YES**
	Claims	6 - 7, 9 - 10, 12	**NO**
Industrial applicability (IA)	Claims	1 - 13	**YES**
	Claims		**NO**

2. Citations and explanations

D1: GB-A-2 310 344 (MOTOROLA INC) 20 August 1997 (1997-08-20)

D2: FR-A-2 456 349 (SOCIETE D'INFORMATIQUE ET DE TELETRANSMISSIONS SITINTEL) 5 December 1980 (1980-12-05)

D3: US-A-4 736 404 (ANGLIKOWSKI ET AL.) 5 April 1988 (1988-04-05)

D4: US-A-4 731 813 (SCHROEDER) 15 March 1988 (1988-03-15)

D5: US-A-4 721 849 (DAVIS ET AL.) 26 January 1988 (1988-01-26).

1. The following objections are raised to the lack of clarity of the claims (PCT Article 6):

2. The information with which the charging current is modulated has not been defined in Claim 13, A). A suitable basis for this appears to exist on page 3, lines 12 to 16.

3. D1 discloses (the references in parentheses are to that document):

a communication device comprising:
- a mobile communication terminal (126) which comprises at least one chargeable energy store and

- a charging base station (122) associated with the mobile communication terminal, said charging base station being provided with at least two external charging contacts (214, 216), and the mobile communication terminal (12) being provided with at least two corresponding electrical complementary contacts (220, 222) for transmitting a charging current from the charging base station to the communication terminal.

Furthermore,

the charging base station is, or can be, coupled to a peripheral device, in particular a PC, an organizer or the like, via an interface (332) for the exchange of data (see the abstract), the data can be exchanged between the charging base station and the communication terminal via the at least two electrical charging contacts and the complementary contacts associated therewith (cf. page 9, lines 10 to 12: it makes no conceptual difference whether the communication goes from the charging station to the mobile part or vice versa), and the data transmitted from the charging base station and the communication terminal are coded in the charging current by means of a modulation process (D1, page 9, lines 13 to 21 and pages 9 to 16 in general), characterized in that the modulation process comprises a CRC process (page 15, first table: "CHECKSUM").

The subject matter of Claim 1 is therefore not novel (PCT Article 33(2)).

It should be noted in particular that if the charging station were to be connected directly to a PC instead of to a WAN, this direct connection between charging station and PC has already been known for a long time (cf. palm organizer, pocket PC, which have been on the market for many years, and also D2, interface 4, in this case to the printer) and has no interaction with the feature whereby the data are exchanged via

the current supply contacts. A claim amended in this way would therefore not involve an inventive step.

The "CHECKSUM" on page 9 of D1 is a cyclic (part of the protocol, see D1, page 14, lines 27 to 28) redundancy check. Even if a difference existed between the definitions of CRC and what is done in D1 to check the Checksum, the use of a redundancy coding is provided in D1, and therefore Claim 1 is not inventive (PCT Article 33(3)) in relation to D1.

The subject matter of Claim 1 is not inventive in relation to D2, D3, D4 and D5, because the core concept of this claim (modulation of the charging current) is known from D2 to D5, and the use of a redundancy check is known from D1 and would also be a normal option for a person skilled in the art for improving the communication between the base station and the mobile station.

4. The foregoing observations apply to Claim 13. Consequently, the subject matter of Claim 13 is not novel in relation to D1 and not inventive (PCT Article 33(3)) in relation to D2 to D5.

5. The subject matter of Claims 2, 3, 4, 5, 8 (cf. D1, page 9, lines 13 to 15) and 11 is not novel in relation to D1 and not inventive in relation to D2 to D5 in combination with technical knowledge. The subject matter of Claims 6, 7, 9 (cf. palm organizer), 10 (cf. palm organizer) and 12 is not inventive in relation to D1 to D5 in combination with technical knowledge.

6. The basis for Claims 1 and 13 (formerly 1 and 14) is found in the original Claims 5 and 9. The current Claims 8 to 12 correspond the original Claims 9 to 13.