FORM 1

COMMONWEALTH OF AUSTRALIA
PATENTS ACT 1952

Application for a Standard Patent or

A Standard Patent of Addition

We, ALCATEL N.V. of Strawinskylaan 341
1077 XX Amsterdam, The Netherlands,

, hereby apply for the grant of a standard patent/~~patent of addition~~
for an invention entitled

"SOFTWARE DOWNLOADING DEVICE FOR TELECOMMUNICATIONS TERMINAL"

which is described in the accompanying ~~provisional~~ complete specification.
Details of basic application(s) —

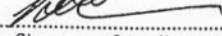|	
Number of basic application	90 06710
Name of Convention country in which basic application was filed	France
Date of basic application	30 May 1990

Our address for service is:

PATENT DEPARTMENT
ALCATEL AUSTRALIA LIMITED
280 BOTANY ROAD
ALEXANDRIA   NSW   2015
AUSTRALIA

Dated this   Twentyeighth   day of   May   1991.

8022065   29/05/91

ALCATEL N.V.

BY: ....
Signature of Applicant
B. O'Connor

To: The Commissioner of Patents

COMMONWEALTH OF AUSTRALIA
PATENTS ACT 1952 - 1969

DECLARATION IN SUPPORT OF A CONVENTION APPLICATION
FOR A PATENT OR A PATENT OF ADDITION

In support of the Convention application made
for a patent ~~of addition~~ for an invention entitled

I , BRIAN PATRICK O'CONNOR
of ALCATEL AUSTRALIA LIMITED, 280 Botany Road, Alexandria,
2015, N.S.W., Australia
do solemnly and sincerely declare as follows:-

1.   I am authorised by   ALCATEL N.V.
the applicant for the patent ~~of addition~~ to make
this declaration on its behalf.

2.   The basic application as defined by Section 141
of the Act was/~~were~~ made in   France

on   30 May 1990

by   ALCATEL CIT

3.   Michel BALLARD, 64 avenue Marguerite Renaudin, 92140, Clamart,
     France;
     Edouard ISSENMANN, a French citizen, of 13 rue Welwert,
     78150 Le Chesnay, France

~~is~~/are the actual inventor of the invention, and
the facts upon which the applicant is entitled to
make the application are as follows:-

ALCATEL N.V. is the Assignee of ALCATEL CIT who is the Assignee

of the SAID INVENTORS.

4.   The basic application referred to in paragraph 2
of this Declaration was/~~were~~ the first application
in a Convention country in respect of the invention
the subject of the application.

Declared at   Sydney   this 13th day of   June   19~~7~~91.

....
Signature of Declarant

To: The Commissioner of Patents.

(12) PATENT ABSTRACT   **(11)** Document No. **AU-A-77395/91**
(19) AUSTRALIAN PATENT OFFICE

(54)   Title
SOFTWARE DOWNLOADING DEVICE FOR TELECOMMUNICATIONS TERMINAL

International Patent Classification(s)
(51)^5 G06F 009/445   H04B 007/26   H04Q 007/04

(21)   Application No. : 77395/91   (22) Application Date : 29.05.91

(30)   Priority Data

(31)   Number   (32)   Date   (33)   Country
      90 06710   30.05.90   FR FRANCE

(43)   Publication Date :   05.12.91

(71)   Applicant(s)
ALCATEL N.V.

(72)   Inventor(s)
NAME NOT GIVEN

(74)   Attorney or Agent
ALCATEL AUSTRALIA LIMITED , BOX 525 G.P.O., SYDNEY N.S.W. 2001

(57)   Claim

1.   A software downloading device for telecommunciations terminal connected to a telecommunications network via a conventional interface, the said terminal being fitted with a microprocessor which controls the operation of the said terminal by executing a software program, said device comprising at least one RAM to store at least one operating software program, at least one downloading interface to receive, and write an operating software program to a RAM, and a ROM storing the downloading software.

ORIGINAL

COMMONWEALTH OF AUSTRALIA
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COMPLETE SPECIFICATION FOR THE INVENTION ENTITLED

"SOFTWARE DOWNLOADING DEVICE FOR TELECOMMUNICATIONS
TERMINAL"

The following statement is a full description of
this invention, including the best method of
performing it known to us:-

This invention relates to a software downloading device for telecommunications
terminal, such as mobile radiophone for cellular network, cordless phone or fixed
terminal in an integrated services digital network. These terminals have some char-
acteristics in common: microprocessor which performs the main functions required
for their operation.

The software program executed by each of these terminals must be able to evolve
with time in order to: either correct software anomalies, improve the terminal opera-
tion, provide new services to subscribers, follow the changes made to telecommuni-
cation network technical specifications, or be matched to various networks where
different software programs need to be executed, when a terminal is moved to another
country for instance.

Significant difficulties are encountered when changing the software program ex-
ecuted by a terminal. The software is typically stored in a ROM. To change a soft-
ware program it is necessary to return the terminals to a Company branch for
replacement of some of the terminal's components. Therefore, each terminal is una-
vailable to the user for a certain period of time. These operations are therefore costly
to the network operator. The purpose of the invention is to propose a device elimi-
nating these drawbacks.

In accordance with the invention, a software downloading device for telecom-
munication terminal connected to a telecommunication network via a conventional
interface, called network connection interface, the said terminal being fitted with a
microprocessor which controls the operation of the said terminal by executing a soft-
ware program, called operating software, is characterised in that it is fitted with:
program to a RAM.

The device thus featured makes it possible to change the operating software of
a telecommunication terminal, each time new software is required for the reasons
listed above. Device and downloading costs are minimal, it is therefore possible to
use it for terminals sold in very large quantities.

Preferably, the downloading interface is made up of the conventional interface
connecting the terminal to the telecommunication network, the software to be down-
loaded being forwarded by the said network via the conventional interface.

The device thus featured has the advantage of being quite simple, since there is
no need to add another interface.

Preferably, the downloading interface is made up of an interface dedicated to
downloading, the software to be downloaded being forwarded by means other than

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