

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

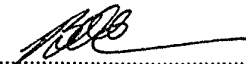
Our address for service is:

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

Dated this    Twentyeighth                      day of                      May                      1991.

5022065    29/05/91

ALCATEL N.V.

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

FORM 8

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 ~~made~~ 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

~~I~~ 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 ~~was~~ 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 1979.

.....  
Signature of Declarant

To: The Commissioner of Patents.

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

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(54) Title  
SOFTWARE DOWNLOADING DEVICE FOR TELECOMMUNICATIONS TERMINAL

International Patent Classification(s)  
(51)<sup>5</sup> 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 telecommunications 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  
PATENTS ACT 1952-1969

COMPLETE SPECIFICATION FOR THE INVENTION ENTITLED

"SOFTWARE DOWNLOADING DEVICE FOR TELECOMMUNICATIONS  
TERMINAL"

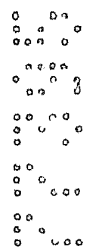
The following statement is a full description of  
this invention, including the best method of  
performing it known to us:-

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this invention, including the best method of  
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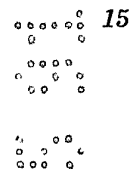


This invention relates to a software downloading device for telecommunications terminal, such as mobile radiophone for cellular network, cordless phone or fixed terminal in an integrated services digital network. These terminals have some characteristics in common: microprocessor which performs the main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

5 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 operation, provide new services to subscribers, follow the changes made to telecommunication 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.



10 Significant difficulties are encountered when changing the software program executed by a terminal. The software is typically stored in a ROM. To change a software 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 unavailable 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 eliminating these drawbacks.



15 In accordance with the invention, a software downloading device for telecommunication 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 software program, called operating software, is characterised in that it is fitted with: program to a RAM.



20 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 downloaded being forwarded by the said network via the conventional interface.

25 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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