



PCT/MIA/VI/13 ORIGINAL: English DATE: February 11, 1997

WORLD INTELLECTUAL PROPERTY ORGANIZATION GENEVA

INTERNATIONAL PATENT COOPERATION UNION (PCT UNION)

MEETING OF INTERNATIONAL AUTHORITIES UNDER THE PCT

Sixth Session Canberra, February 17 to 21, 1997

INTERNATIONAL SEARCH WHERE INTERNATIONAL APPLICATIONS CONTAIN A DISPROPORTIONATE NUMBER OF CLAIMS

Proposal by the European Patent Office

The Annex to this document contains proposals by the European Patent Office concerning problems related to international search where international applications claim a disproportionate number of claims, submitted for consideration at the sixth session of the Meeting of International Authorities under the PCT.

[Annex follows]

ANNEX

EUROPEAN PATENT OFFICE

8 February 1997

DISPROPORTIONATE NUMBER OF CLAIMS SUBMITTED TO INTERNATIONAL SEARCH (MACRO-CLAIMS)

I. Problem

1. A certain proportion of International applications received by the EPO as an ISA include a number of claims higher than 50, 100 or even more (see Annex 1 which is an excerpt of PCT/US96/02303 comprising 526 claims of which 525 are independent claims).

Also with a less drastic high number of claims, numerous independent claims in one and the same category makes the search effort disproportionally high.

A similar situation occurs with claims of which at least certain contain an extremely high number of alternatives (see Annex 2 which relates to PCT/JP 94/01916, the first claim of which contains more than **7.800** alternatives).

- 2. It is evident that these applications violate the requirement of conciseness of claims under Art. 6 and Rule 6 PCT and that a meaningful search cannot be carried out in a reasonable time space.
- 3. The examiner could in such cases apply Art. 17.2.(a)(ii) PCT and issue a declaration to the effect that a meaningful search cannot be carried out. This would be to the disadvantage of the applicant who would not even get any search report for at least a minimum number of claims, as it is the case where unity of invention is lacking.
- 4. Although it might be that after a lengthy study a lack of unity of invention could be raised, such a study and establishment of a reasoned statement under Rule 40.1 PCT would be prohibitive in time of the search examiner.

The annex is complemented by an invitation to pay additional fees because of lack of unity of invention that give a feeling of the work involved.

II. Possible option to face the problem

5. An option to limit the scope of the international search to a reasonable cost would be to provide for a claim fee that the ISA might impose on the applicant, as this is provided in a number of national and regional laws.

- 6. Two scenarios may be envisaged:
 - a) Payment of a claim fee for each claim above a certain ceiling (eg. above 10 claims);
 - b) Payment of a claim fee for each independent claim in a specific category (method, product) above a certain celling.
- 7. If scenario a) would be chosen, the claim fees could be levied by the competent receiving Offlice and transferred to the ISA together with the search fee.

In case of scenario b), the task of inviting the applicant to pay claim fees, where necessary, would be incombent upon the ISA. In that case the procedure could be quite similar to that of inviting the applicant to pay additional fees in case of lack of unity of invention (of course without any possibility of protest).

III. Exchange of views

8. The EPO proposes that an exchange of views on the above subject matter takes place at the forthcoming MIA/VI.

WE CLAIM:	delivery means for delivering one or more of said one or
	more digital containers to a digital information user; and
1. A method for secure content delivery including:	at least one protected processing environment for securely
a) encapsulating digital information within one or more	controlling decryption of at least a portion of said digital
digital containers;	information.
b) encrypting at least one portion of said digital	
information;	3. A method for secure digital information delivery
c) associating at least partially secure control	characterized by the steps of: (a) encrypting at least a portion of
information for managing interaction with said	said digital information through the use of a first at least one
encrypted digital information and/or the digital	VDE node, (b) creating and encrypting, through the use of said
container;	first at least one VDE node, control information to control use of
d) delivering one or more of said one or more digital	at least a portion of said digital information by plural, users, (c)
containers to a digital information user;	securely providing said control information to said plural users,
e) employing a protected processing environment for	and (d) employing at least one VDE node different from said first
securely controlling decryption of at least a portion of	at least one VDE node to process at least portions of said control
said digital information.	information and to control use of said encrypted digital
	information by said users.
2. A system for secure content delivery including:	
encrypting means for encrypting at least one portion of	4. A system for secure digital information delivery
digital information;	characterized by:
container processing means for encapsulating digital	a first at least one VDE node for encrypting at least a
information within one or more digital containers and for	portion of said digital information,
associating at least partially secure control information for	means for creating and encrypting, through the use of said
managing interaction with said encrypted digital information;	first at least one VDE node, control information to control use of
	ot least a nortion of said dicital information by plural users.

PCT/US96/02303 WO 96/27155 PCT/US96/02303	to	information; and	one a protected processing environment for securely	controlling decryption of at least a portion of the encrypted	content based at least in part on the control information.		7. A method for secure digital information delivery	st characterized by the steps of: (a) encrypting at least a portion of	as and digital information, (b) associating protected control	gital information to at least a portion of said digital information, and c	providing at least a portion of said encrypted digital information	to a first user and at least in part controlling use of at least a	t for portion of said encrypted digital information through the use of	and at least a portion of said protected control information, wherein	said first user further provides at least one of (a) a copy of said at	least a portion of said encrypted digital information , or (b) said	encrypted digital information, to a second user, and wherein said	second user associates further control information with said	encrypted digital information for use in controlling use of said	t encrypted digital information by a third user.		gital 8. A system for secure digital information delivery	characterized by:	l means for encrypting at least a portion of said digital	ta fa
WO 96/27155 PCT/U	means for securely providing said control information to	said plural users, and	at least one VDE node different from said first at least one	VDE node for processing at least portions of said control	information and to control use of said encrypted digital	information by said users.		5. A method for secure content delivery wherein at least	partially encrypted content is encapsulated within at least one	digital container and the digital container is delivered to a digital	information user, the method characterized by the steps of:	associating, with the encapsulated content and/or the	digital container, at least partially secure control information for	managing interaction with the container and/or the content; and	employing a protected processing environment for	securely controlling decryption of at least a portion of the	encrypted content based at least in part on the control	information.		6. A system for secure content delivery wherein at least	partially encrypted content is encapsulated within at least one	digital container and the digital container is delivered to a digital	information user, the system characterized by:	a data structure that associates, with the encapsulated	content and/or the dioital container. at least partially secure

923

W0 96/27155 PCT/0596/02303	WO 96/27155
means for associating protected control information to at	information for use in ensuring at least one
least a portion of said digital information,	consequence of use of said information;
means for providing at least a portion of said encrypted	d) distributing at least a portion of said information to
digital information to a first user	a party other than the first and additional parties at
means for at least in part controlling use of at least a	a location different from the locations of the first and
portion of said encrypted digital information through the use of	additional locations; and
at least a portion of said protected control information,	f) decrypting at least a portion of said information at
means for allowing the first user to provide at least one of	said third location, and ensuring said consequences
(a) a copy of said at least a portion of said encrypted digital	of use of said information.
information, or (b) said encrypted digital information, to a second	
user, and	10. A system for secure digital transaction management
means for allowing said second user to associate further	including interconnected structures for performing the following
control information with said encrypted digital information for	functions:
use in controlling use of said encrypted digital information by a	a) encrypting digital information;
third user.	b) enabling a first party to securely associate at least
	one control with said information for use in ensuring
9. A method for secure digital transaction management	at least one consequence of use of said information;
including:	c) enabling one or more additional parties to securely
a) encrypting digital information at a first location;	associate at least one further control with said
b) enabling a first party to securely associate at least	information for use in ensuring at least one
one control with said information for use in ensuring	additional consequence of use of said information;
at least one consequence of use of said information;	d) distributing at least a portion of said information to
	a further party; and
c) enabling one or more additional parties to securely	e) decrypting at least a portion of said information; and
associate at least one further control with said	f) securely ensuring said consequences.
925	926

W0 96/27155 PCT/0	PCT/0/1596/02303 WO 96/27/155 PCT/0/1596/02303
11. A system for secure digital transaction management	tt 13. A method for securely automating distributed
wherein digital information is encrypted by a first party at a first	irst electronic processes including:
location and distributed, characterized by:	a) providing secure, interoperable, general purpose
a first protected processing environment for enabling the	the rights management processing means to multiple,
first party to securely associate at least a first control with said	d
information,	b) establishing secure process management controls for
a further protected processing environment for enabling	g automatically, at least partially remotely, and
the further party to securely associate at least a further control	ol securely supporting requirements related to
with said information, and	electronic events;
a still further protected processing environment for	c) securely distributing process management controls
dectypting at least a portion of said information while controlling	to party sites;
at least one consequence of use of the information based at least	st d) securely maintaining at least a portion of said
in part on the first and further controls.	process management controls under the control of
	party processing means at said party sites;
12. A method for secure digital transaction management	e) automatically managing electronic processes at said
wherein digital information is encrypted by a first party at a first	rst party sites to enforce interests related to said
location and distributed, characterized by the following steps:	electronic content.
enabling the first party to securely associate at least a	
first control with said information,	14. A system for securely automating distributed
enabling a further party to securely associate at least a	a electronic processes including:
further control with said information, and	interoperable rights management processing means
transmitting the first and further controls; and	disposed at multiple parties' sites;
decrypting at least a portion of said information while	control establishing means for establishing secure process
controlling at least one consequence at least in part on the	management controls; for remotely, automatically, and securely
transmitted controls.	supporting requirements related to electronic events, and for
927	928

WO 96/27155 PCT/US96/02303	WO 96/27155 PCT/US96/02303
securely distributing process management controls to party	distributing means connected to the processors for
sites;	securely distributing, to the processors, process management
security means for securely maintaining at least a portion	controls for remotely, automatically, and securely supporting
of said process management controls under the control of	requirements related to electronic events;
processing means at said party sites; and	process control means for securely maintaining at least a
managing means for automatically managing electronic	portion of said process management controls under the control of
processes at plural party sites to enforce interests related to said	the processors; and
electronic events.	management means for automatically managing, in a
	distributed manner with the processors, electronic processes at
15. A method for automating distributed electronic	the multiple sites to enforce the interests related to the electronic
processes using interoperable processors at multiple sites,	events.
characterized by the following steps:	
securely distributing, to the processors, process	17. A method of securely enforcing a rights seniority
management controls for automatically, and securely supporting	system characterized by the steps of:
requirements related to electronic events;	allowing a first user to create at least one control over
securely maintaining at least a portion of said process	electronic content; and
management controls under the control of the processors; and	allowing a second user to contribute at least one further
automatically managing, in a distributed manner with	control over electronic content and/or alter the control in place,
the processors, electronic processes at the multiple sites to	the second control being subject to the first control.
enforce interests related to electronic events.	
	18. A system for securely enforcing a rights seniority
16. A system for automating distributed electronic	system characterized by:
processes using interoperable processors at multiple sites,	a first secure environment for allowing a first user to
characterized by the following:	contribute at least one control over electronic content; and

930

WO 96/27155 PCT/US96/02303	235. An electronic currency system comprising plural,	electronic appliances containing (a) protected processing	environments, (b) encrypted electronic currency and related	secure control information configured so as to be useable by at	least one of said protected processing environments, and (c)	usage reporting means for securely communicating electronic	currency usage related information from a first interoperable	protected processing environment to a second interoperable	protected processing environment.		236. An electronic currency method comprising:	distributing plural, electronic appliances containing (a)	protected processing environments, (b) encrypted electronic	currency and related secure control information configured so as	to be useable by at least one of said protected processing	environments, and	securely communicating electronic currency usage related	information from a first interoperable protected processing	environment to a second interoperable protected processing	e de la servición de la s Servición de la servición de la s		237. A method for electronic financial activities	characterized by the steps of:		
ro 96/27155	least in part securely storing, within the secure databases, at	least a portion of such control instructions for use by said at least	one secure processing unit.		233. A content distribution system comprising plural	electronic appliances containing one or more interoperable secure	processing units operatively connected to one or more databases	for use with at least one of said secure processing units, said one	or more databases containing (a) one or more decryption keys for	use in decrypting distributed, encrypted digital information, and	(b) encrypted audit information, said audit information reflecting	at least one aspect of use of said distributed digital information		234. A content distribution method comprising:	distributing plural electronic appliances containing one or	more interoperable secure processing units	operatively connecting the appliances to one or more	databases,	storing within said one or more databases one or more	decryption keys,	using the decryption keys for decrypting distributed,	encrypted digital information, and	storing within the one or more databases encrypted audit	information, said audit information reflecting at least one aspect	of use of said distributed digital information.

1005

WO 9627155	communicating encrypted electronic currency from a first, .	interoperable secure user node to a second interoperable user	node using at least one secure container, and	providing secure control information for use with said at	least one secure container, said secure control information, at	least in part, maintaining conditionally anonymous currency	usage information.		240. A system for electronic currency management	including:	means for communicating encrypted electronic currency	from a first, interoperable secure user node to a second	interoperable user node using at least one secure container, and	means for providing secure control information for use with	said at least one secure container, said secure control	information, at least in part, maintaining conditionally	anonymous currency usage information.		241. A method for electronic financial activities	management characterized by the steps of:	securely communicating from a first secure node to a	second secure node financial information standardized control	information for controlling the use of financial information used	in a financial value chain,		
WO 96/27155	communicating digital containers containing	financial information from a first interoperable	secure node to a second interoperable secure node,	communicating modular, standard control	information to said second secure node to, at least in	part, set the conditions for use of at least a portion of	said financial information,	reporting information related to said use to said first	interoperable secure node.		238. A system for electronic financial activities	characterized by:	means for communicating digital containers containing	financial information from a first interoperable secure node to a	second interoperable secure node,	means for communicating modular, standard control	information to said second secure node,	means at the second node for, at least in part, setting the	conditions for use of at least a portion of said financial	information, and	means for reporting information related to said use from	the second secure node to said first interoperable secure node.		239. A method for electronic currency management	including:	

1008

WO 96/27155	PCT/US96(01303	WO 96/27/155 PCT/US96/02303	
securely communicating 1	securely communicating from said first secure node to a	means coupled between the second and third nodes for	
third secure node said financial	third secure node said financial information standardized control	securely communicating encrypted financial information from	
information for controlling the 1	information for controlling the use of financial information used	said second secure node to said third secure node, including	
in a financial value chain,		communicating secure control information, and	
securely communicating (securely communicating encrypted financial information	means at the third node for processing said financial	
from said second secure node to	from said second secure node to said third secure node, including	information at said third node at least in part through the use of	
communicating secure control information,	oformation,	secure control information supplied by said first and said second	
processing said financial inform	processing said financial information at said third node at least	secure nodes, and	
in part through the use of secur	in part through the use of secure control information supplied by	a secure database at the third node for at least in part	
said first and said second secure nodes, wherein said	e nodes, wherein said	storing said standardized control information.	
standardized control information is at least in part stored in a	n is at least in part stored in a		
secure database contained within said	in said third secure node.	243. A method of information management characterized	
		by the steps of creating at least one smart object at a first	
242. A system for electronic financial activities	nic financial activities	location, protecting at least a portion of said smart object	
management characterized by the steps of:	he steps of:	including protecting at least one rule and/or control assigned to	
means coupled to a first a	means coupled to a first and a second secure node for	said smart object, distributing said at least one smart object to at	
securely communicating from said first	ud first secure node to said	least one second location, securely processing at least a portion of	
second secure node financial information standardized control	ormation standardized control	the contents of said at least one smart object at said at least one	
information for controlling the u	information for controlling the use of financial information used	second location in accordance with at least a portion of at least	
in a financial value chain,		one said rule and/or control assigned to said smart object.	
means coupled between the first	le first secure node and a third		
secure node for securely communicating from said first secure	nicating from said first secure	244. An information management system characterized	
node to said third secure node said financial information	ud financial information	by:	
standardized control information for controlling the use of	1 for controlling the use of	means for creating at least one smart object at a first	
financial information used in a financial value chain,	inancial value chain,	location,	
	•		

PCT/MIA/VI/13

Annex, page 10

1009

WO 96/27155	WO 96/271155
(b) supplying general purpose credit control information	517. An electronic appliance containing one or more video.
for providing credit for user usage of at least in part protected	controllers where at least one of the video controllers is
digital information; and	integrated with at least one SPU.
(c) providing, at least in part, protected digital information	
related control information for providing necessary information	518. An electronic appliance containing one or more
for employing credit through the use, at least in part, of said	network communications means where at least one of the
general purpose credit control information.	network communications means is integrated with at least one
	SPU
513. A document management system comprising one or	
more electronic appliances containing one or more SPUs and one	519. An electronic appliance containing one or more
or more secure databases operatively connected to at least one of	modems where at least one of the modems is integrated with at
the SPUs.	least one SPU.
514. An electronic contract system comprising one or more	520. An electronic appliance containing one or more CD-
electronic appliances containing one or more SPUs and one or	ROM devices where at least one of the CD-ROM devices is
more secure databases operatively connected to at least one of	integrated with at least one SPU.
the SPUs.	
	521. An electronic appliance containing one or more set-
515. An electronic appliance containing at least one SPU	top controllers where at least one of the set-top controllers is
and at least one secure database operatively connected to at least	integrated with at least one SPU.
one of the SPU(s).	
	522. An electronic appliance containing one or more game
516. An electronic appliance containing one or more CPUs	systems where at least one of the game systems is integrated
where at least one of the CPUs is integrated with at least one	with at least one SPU.
SPU.	

1091

1092

[End of Annex and of document]