

OPIC Notes de l'examen / CIPO Examination Notes

Ce document est un supplément d'information aux RRI et OE / This document is a supplement to the information contained in the ISR and WO.

1. Renseignements généraux / General Information			
No. de la demande/ Application No.	PCT/CA2018/000138	Date de dépôt / Filing Date	04 July 2018 (04-07-2018)
No. de référence / Reference Number	294035.00011	Date de priorité / Priority Date	04 July 2017 (04-07-2017)
Déposant / Applicant	IS5 COMMUNICATIONS, INC.		
CIB / IPC	IPC: H04L 9/00 (2006.01), G06F 21/30 (2013.01), H04L 12/22 (2006.01), H04L 12/26 (2006.01), H04L 12/66 (2006.01), H04L 9/32 (2006.01)		
Titre / Title	CRITICAL INFRASTRUCTURE SECURITY FRAMEWORK		

2. Détails de la recherche / Search Details		Ch. I
	<i>(Cocher toutes les cases pertinentes) / (check all that apply)</i>	<i>Commentaires / Comments</i>
restrictions de dates / date restrictions	<input checked="" type="radio"/> Date de dépôt / Filing <input type="radio"/> Aucune / None	<i>(détails / details)</i> 04-07-2018
Antériorités relevées par le déposant ont été considérées / prior art noted by applicant considered	<input type="radio"/> Oui / Yes <input checked="" type="radio"/> SO / N/A	<i>(détails / details)</i>
Divulgations antérieures par le déposant et l'inventeur(s) ont été considérées / applicant and inventor(s) prior disclosures considered	<input checked="" type="radio"/> Oui / Yes <input type="radio"/> SO / N/A	<i>(détails / details)</i>

3. Documentation de la recherche / Search Documentation
(Indiquer clairement les bases de données /les outils de recherche utilisés et ajouter les chaînes de recherche/l'historique de recherche/stratégies de recherche) / (Clearly identify database(s)/search tool(s) used and append search strings/search history/search strategy)

Questel Orbit Search

SS Results

11 12 (END SECURITY AND LAYER+ NETWORK+ AND FIREWALL AND PARTITION+) /TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (H04L+ OR G06F+)/IPC AND PD <= 2018-07-04

10 54 (END SECURITY AND LAYER+ NETWORK+ AND FIREWALL) /TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (H04L+ OR G06F+)/IPC AND PD <= 2018-07-04

9 0 (SECURITY AND LEVEL NETWORK+ AND DYNAMIC FIREWALL) /TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (H04L+ OR G06F+)/IPC AND PD <= 2018-07-04

8 0 (END SECURITY AND LEVEL NETWORK AND DYNAMIC FIREWALL) /TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (H04L+ OR G06F+)/IPC AND PD <= 2018-07-04

7 0 (END SECURITY AND L3 NETWORK AND DYNAMIC FIREWALL) /TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (H04L+ OR G06F+)/IPC AND PD <= 2018-07-04

6 1 (SECURITY FRAMEWORK AND ((LEVEL OR LAYER+) 2W NETWORK) AND DYNAMIC

FIREWALL)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (H04L+ OR G06F+)/IPC AND PD <= 2018-07-04
5 1 (END-TO-END SECURITY FRAMEWORK AND ((LEVEL OR LAYER+) 2W NETWORK))/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (H04L+ OR G06F+)/IPC AND PD <= 2018-07-04
4 26 (END-TO-END SECURITY AND ((LEVEL OR LAYER+) 2W NETWORK) AND GATEWAY AND FIREWALL AND CREDENTIAL)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (H04L+ OR G06F+)/IPC AND PD <= 2018-07-04
3 2 ((LUSKIND D YURI)/IN/OIN/INH/INV OR (TSEITIN D BORIS)/IN/OIN/INH/INV) AND PD <= 2018-07-04
2 0 ((IS5)/PA/OPA) AND PD <= 2018-07-04
1 0 ((IS5 D COMMUNICATIONS)/PA/OPA) AND PD <= 2018-07-04

GOOGLE SEARCH

Searched for communication networks and systems for power utility automation part 90-4

6:44 PM•Details•

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Visited Substation of the Future: A Feasibility Study - Google Search

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Searched for Is5 Communications

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Visited [US20070112578A1 - Infrastructure Architecture for Secure Network Management with Peer to Peer Functionality - Google ...](#)

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IEEEXplore

No results found for `((("Authors":Luskind) OR "Authors":Tseitin)`

Displaying results 1-25 of 30 for `security framework in mission critical infrastructure`

Yingfei Dong, D. H. -. Du and Feng Cao, "Infrastructure-level trust-based protection for security-concerned systems and their communications," IEEE INFOCOM Workshops 2008, Phoenix, AZ, 2008, pp. 1-6.doi:

10.1109/INFOCOM.2008.4544596URL:

<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4544596&isnumber=4544573>

Displaying results 1-2 of 2 for `((((layered network) AND dynamic firewall) AND end-to-end security)`

Displaying results 1-2 of 2 for `((((layered network) AND dynamic firewall) AND end-to-end security)`

Displaying results 1-25 of 35 for `((((layer network) AND firewall) AND infrastructure)`

<h4>4. Documents pertinents identifiés / Relevant Documents Found</h4>

(En plus des documents cités par le RRI, d'autres documents qui pourraient s'avérer pertinents lors d'un traitement supplémentaire (p.ex., Chapitre II) peuvent être inclus. Les documents devraient être identifiés en tant que document X, Y ou A. Cependant, une explication supplémentaire de chaque document n'est pas nécessaire. / In addition to the documents cited in the ISR, other documents which may be considered relevant in further prosecution (e.g. Ch. II) may be included. Documents should be identified as either X, Y or A document, however, no further explanation of each document is necessary.)

A - (2015). "Centralized Substation Protection and Control," *IEEE Power System Relaying Committee WG K15 Report*, December, 2015.
[Online]. Available: http://www.pespsrc.org/Reports/IEEE_PES_PSRC_WG%20K15_Report_CPC_Dec_2015.pdf

A - Meliopoulos et al. (2010), *Substation of the Future: A Feasibility Study*. PSERC Publication 10-17.

A - Looking into the Future Protection, Automation and Control Systems. WG K15 on Centralized Substation Protection and Control, IEEE Power System Relaying Committee, IEEE transactions, 2015.

5. CIB additionels / Additional IPCs
