

## 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.*

<b>1. Renseignements généraux / General Information</b>			
No. de la demande/ Application No.	<b>PCT/CA2018/050271</b>	Date de dépôt / Filing Date	07 March 2018 (07-03-2018)
No. de référence / Reference Number	1369PCT108	Date de priorité / Priority Date	09 March 2017 (09-03-2017)
Déposant / Applicant	HARDER, CRAIG ET AL		
CIB / IPC	IPC: <b>E02F 9/28</b> (2006.01), <b>E02F 3/36</b> (2006.01), <b>E02F 9/00</b> (2006.01), <b>E05B 47/00</b> (2006.01)		
Titre / Title	POWER OPERATED LOCKING SYSTEM EARTH MOVING EQUIPMENT AND METHOD		

<b>2. Détails de la recherche / Search Details</b>		<b>Ch. I</b>
	<i>(Cocher toutes les cases pertinentes) / (check all that apply)</i>	<i>Commentaires / Comments</i>
restrictions de dates / date restrictions	<input type="radio"/> Date de dépôt / Filing <input checked="" type="radio"/> Aucune / None	<i>(détails / details)</i>
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>

<b>3. Documentation de la recherche / Search Documentation</b>
(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)

**\*\*\*\*\*Canadian Patent Database Intellect Search\*\*\*\*\***

Query Number of Hits

(harder <and> craig) <in> inventor 9  
 ((paul <and> weber) <in> inventor) 34  
 (E02F <and> E05B) <in> ipc 0  
 (E02F 9/28 <in> ipc) and (remote <or> signal <or> wireless\*) 42

**\*\*\*\*\*Questel Orbit Search\*\*\*\*\***

Base: FAMPAT

Query Number of Hits

((CRAIG AND HARDER) OR (PAUL AND WEBER))/IN AND E02F/IPC 11

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E02F-009/28/IPC/CPC AND (LOCK+ S REMOTE)/BI/TX AND PD<=2017-03-09 36

E02F-009/28/IPC/CPC AND (REMOTE+ 3W CONTROL+)/BI/TX 25

E02F-003/36/IPC/CPC AND (REMOTE+ 3W CONTROL+)/BI/TX AND (TOOTH OR TEETH OR BIT? OR TIP?)/BI/TX 145

E02F-009/00/IPC/CPC AND (REMOTE+ 3W CONTROL+)/BI/TX AND (TOOTH OR TEETH OR BIT? OR TIP?)/BI/TX 133

E02F/IPC/CPC AND E05B-047/00/IPC/CPC 4

E02F-009/28/IPC/CPC AND E05B/IPC/CPC 4

E02F-009/28/IPC/CPC AND ((EXTEN+ OR EXPAN+) AND (CONTRACT+ OR RETRACT+) AND MOTOR)/BI/TX 91

..citb US5709043/pn 32

..citb JP3925530/pn 2

E02F-003/96/IPC/CPC AND (((EXTEN+ OR EXPAN+) S PIN?) AND ((CONTRACT+ OR RETRACT+) S PIN?) AND (MOTOR? OR SOLENOID? OR ACTUATOR?))/BI/TX 297

E02F-003/36/IPC/CPC AND (((EXTEN+ OR EXPAN+) S PIN?) AND ((CONTRACT+ OR RETRACT+) S PIN?) AND (MOTOR? OR SOLENOID? OR ACTUATOR?))/BI/TX 526

E02F-009/2833/CPC AND (RETRACT+ OR CONTRACT+ OR EXPAND+ OR EXTEND)/BI/TX 379

E02F-009/2833/CPC AND (MOTOR+)/BI/TX 35

E02F-009/2833/CPC AND (SOLENOID+)/BI/TX 1

E02F-009/2833/CPC AND (COIL+)/BI/TX 32

((DRILL BIT?) OR (TOOL BIT?))/BI/TX AND ((LOCK+ PIN) OR (LOCK+ SHAFT))/BI/TX AND (REMOT+ CONTROL+)/BI/TX 126

E21B-023/IPC/CPC AND (REMOT+ 3W CONTROL+)/BI/TX AND ((RETRACT+ OR CONTRACT+ OR EXPAND+ OR EXTEND) S (PIN OR SHAFT))/BI/TX AND (LOCK+)/BI/TX AND (MOTOR OR ELECTRIC+ OR SIGNAL)/BI/TX 100

..citb US4889194/pn 7

..citbf US5709043/pn 140

..citbf US20150007464/pn 18

E02F-009/2841/CPC and (coil or spring)/bi/tx 549

E02F-009/2841/CPC AND (WIRELESS OR SIGNAL OR (REMOT+ 3W CONTROL+))/BI/TX 11

\*\*\*\*\***Google Search**\*\*\*\*\*

Query

tool bit lock remote control

excavator remote control lock

graig harder lock

paul weber lock

raptor remote lock

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#### **4. Documents pertinents identifiés / Relevant Documents Found**

(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.)

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US2016258228A1 (THOMAS, S.G. et al.), 08 September 2016 (08-09-2016) X/Y

US5709043A (JONES, L.F. et al.), 20 January 1998 (20-01-1998) X

US2015007464A1 (SIMPSON, M.C. et al.), 08 January 2015 (08-01-2015) A

US4889194A (DANIELSSON, P.), 26 December 1989 (26-12-1989) A

US7640684B2 (ADAMIC, D. et al.), 05 January 2010 (05-01-2010) A

US2618873A (HOSTETTER, M.D.), 25 November 1952 (25-11-1952) A

CA2852303A1 (JOHNSTON, C. et al.), 30 May 2013 (30-05-2013) A

US2861362A (MAURICE, L. et al.), 25 November 1958 (25-11-1958) A

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#### **5. CIB additionnels / Additional IPCs**

E21B-023/\*