

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT5070344

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
APPULSE POWER INC.	07/19/2018

**RECEIVING PARTY DATA**

<b>Name:</b>	SILANNA ASIA PTE LTD
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<b>City:</b>	SINGAPORE
<b>State/Country:</b>	SINGAPORE
<b>Postal Code:</b>	049315

**PROPERTY NUMBERS Total: 24**

Property Type	Number
Patent Number:	10008941
Application Number:	16016805
Application Number:	62096322
Application Number:	15539431
Application Number:	62629337
Application Number:	62629351
Application Number:	62630639
Application Number:	15583181
Application Number:	62374440
Application Number:	62609033
Application Number:	62625691
Application Number:	15209184
Application Number:	62578192
Application Number:	62624976
Application Number:	62406589
Application Number:	16020496
Application Number:	15249623
PCT Number:	CA2017051593
PCT Number:	CA2015000587

PATENT

Property Type	Number
PCT Number:	CA2017050950
PCT Number:	CA2017050850
PCT Number:	CA2017051207
PCT Number:	CA2017051002
Patent Number:	8937818

**CORRESPONDENCE DATA**

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<b>ATTORNEY DOCKET NUMBER:</b>	SILSG001 - APPULSE
<b>NAME OF SUBMITTER:</b>	PAUL G. STUART
<b>SIGNATURE:</b>	/Paul G. Stuart/
<b>DATE SIGNED:</b>	07/26/2018

**Total Attachments: 3**

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PATENT ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, **Appulse Power Inc.** ("Assignor"), having a registered office at 100 College St., Unit 252A, Toronto, Ontario M5G 1L5, Canada, hereby assigns to **Silanna Asia Pte Ltd** ("Assignee"), having a registered office at 10 Collyer Quay, #10-01 Ocean Financial Centre, Singapore, 049315, all of its right, title and interest in and to the patents and applications listed in Exhibit A ("Patents") and the right to file non-provisionals, divisionals, continuations, continuations-in-part, substitute, continued prosecution, request for continued examination, renewals, reexaminations and reissues, and foreign filing of the Patents, including but not limited to the right to file, prosecute and issue patent applications and patents claiming priority to the Patents for the invention set forth in the Patents and, including without limitation, any and all claims and potential claims of past, present and future infringement of such Patents and the right to sue and collect for past, present and future damages and any other causes of action under such Patents ("Assigned Patent Rights").

Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, letters patents, utility models or certificates of invention which may be granted upon the Assigned Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

IN WITNESS WHEREOF Assignor has executed this Patent Assignment this 19<sup>th</sup> day of July, 2018.

**Appulse Power Inc.**



Authorized signature

Mark Drucker

Name (Printed)

President

Title

**Silanna Asia Pte Ltd**



Authorized signature

Jonathan Murray

Name (Printed)

Director

Title

## EXHIBIT A

MLO Ref.	Patent No.	Issue Date	Serial No.	Filing Date	Title	Inventors	Country
SILSP101	10008941	6/26/2018	15/387,789	12/22/2016	AUXILIARY POWER SUPPLY FOR SWITCH-MODE POWER SUPPLIES	Aleksandar Radic; Seyed-Behzad Mahdavikhah-Mehrabad	US
SILSP101C1			16/016,805	6/25/2018	AUXILIARY POWER SUPPLY FOR SWITCH-MODE POWER SUPPLIES	Aleksandar Radic; Seyed-Behzad Mahdavikhah-Mehrabad	US
SILSP101WO			PCT/CA2017/051593	12/22/2017	AUXILIARY POWER SUPPLY FOR SWITCH-MODE POWER SUPPLIES	Aleksandar Radic; Seyed-Behzad Mahdavikhah-Mehrabad	WO
SILSP102CA			2971883	6/22/2017	FLYBACK CONVERTER	Sheikh Mohammad Ahsanuzzaman; Seyed-Behzad Mahdavikhah-Mehrabad; Aleksandar Radic; Aleksandar Prodic	CA
SILSP102EP			15871377.6	7/6/2017	FLYBACK CONVERTER	Sheikh Mohammad Ahsanuzzaman; Seyed-Behzad Mahdavikhah-Mehrabad; Aleksandar Radic; Aleksandar Prodic	EP
SILSP102P			62/096,322	12/23/2014	FLYBACK CONVERTER	S. M. Ahsanuzzaman; Behzad Mahdavikhah; Aleksandar Radic; Aleksandar Prodic	US
SILSP102US			15/539,431	6/23/2017	FLYBACK CONVERTER	Sheikh Mohammad Ahsanuzzaman; Seyed-Behzad Mahdavikhah-Mehrabad; Aleksandar Radic; Aleksandar Prodic	US
SILSP102WO			PCT/CA2015/000587	11/30/2015	FLYBACK CONVERTER	Sheikh Mohammad Ahsanuzzaman; Seyed-Behzad Mahdavikhah-Mehrabad; Aleksandar Radic; Aleksandar Prodic	WO
SILSP103P			62/629,337	2/12/2018	FLYBACK DIGITAL CONTROLLER	Aleksandar Radic	US
SILSP104P			62/629,351	2/12/2018	FLYBACK TRANSIENT CONTROLLER	Aleksandar Radic	US
SILSP105P			62/630,539	2/14/2018	FRACTIONAL VALLEY SWITCHING CONTROLLER	Aleksandar Radic	US
SILSP106			15/583,181	5/1/2017	AC/DC POWER ADAPTER WITH ACCESSIBLE INTERNAL MEMORY	Metu Erturk; Karim Arabi; Seyed-Behzad Mahdavikhah-Mehrabad; Aleksandar Radic; Sheikh Mohammad Ahsanuzzaman	US
SILSP106P			62/374,440	8/12/2016	HIGHLY INTEGRATED POWER ADAPTER	Metu Erturk; Karim Arabi; Seyed-Behzad Mahdavikhah-Mehrabad; Aleksandar Radic; Sheikh Mohammad Ahsanuzzaman	US

## EXHIBIT A

MLD Ref.	Patent No.	Issue Date	Serial No.	Filing Date	Title	Inventors	Country
SILSP106WO			PCT/CA2017/050950	8/11/2017	AC/DC POWER ADAPTER WITH ACCESSIBLE INTERNAL MEMORY	Mete Erturk; Karim Arabi; Seyed-Behzad Mahdavikhah-Mehrabad; Aleksandar Radic; Sheikh Mohammad Ahsanuzzaman	WO
SILSP107P			62/609,033	12/21/2017	INTEGRATED ADAPTIVE ACTIVE CLAMP	Aleksandar Radic	US
SILSP108P			62/625,691	2/2/2018	INTEGRATED ADAPTIVE ACTIVE CLAMP	Aleksandar Radic	US
SILSP109			15/209,184	7/13/2016	Lossless Snubber Circuits	Aleksandar Radic; Seyed-Behzad Mahdavikhah-Mehrabad	US
SILSP109WO			PCT/CA2017/050850	7/13/2017	Lossless Snubber Circuits	Aleksandar Radic; Seyed-Behzad Mahdavikhah-Mehrabad	WO
SILSP110	8937818	1/20/2015	13/758,848	2/4/2013	LOW-VOLUME PROGRAMMABLE-OUTPUT PFC RECTIFIER WITH DYNAMIC EFFICIENCY AND TRANSIENT RESPONSE OPTIMIZATION	Sheikh Mohammad Ahsanuzzaman; Aleksandar Radic	US
SILSP111P			62/578,192	10/27/2017	MERGED CAPACITIVE-DIVIDER FORWARD CONVERTER	Seyed-Behzad Mahdavikhah-Mehrabad; Nenad Vukadinovic	US
SILSP112P			62/624,976	2/1/2018	CONTROL METHOD FOR MULTI-OUTPUT CONVERTER ARCHITECTURES	Seyed-Behzad Mahdavikhah-Mehrabad; Aleksandar Radic; Nenad Vukadinovic	US
SILSP113P			62/406,589	10/11/2016	SWITCHING MODE POWER SUPPLY CONTROLLER	Aleksandar Radic; Seyed-Behzad Mahdavikhah-Mehrabad	US
SILSP113US			16/020,496	6/27/2018	SWITCH-MODE POWER SUPPLY CONTROLLER	Aleksandar Radic; Seyed-Behzad Mahdavikhah-Mehrabad	US
SILSP113WO			PCT/CA2017/051207	10/11/2017	SWITCHING MODE POWER SUPPLY CONTROLLER	Aleksandar Radic; Seyed-Behzad Mahdavikhah-Mehrabad	WO
SILSP114			15/249,623	8/29/2016	SWITCHING MODE POWER SUPPLY WITH ANTI-WINDUP CIRCUIT	Aleksandar Radic	US
SILSP114WO			PCT/CA2017/051002	8/25/2017	SWITCHING MODE POWER SUPPLY WITH ANTI-WINDUP CIRCUIT	Aleksandar Radic	WO