

PATENT APPLICATION

Attorney Docket: 6537/53820

Date: June 14, 2000

FORM PTO-1585

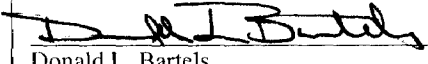
07-21-2000

U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Pa

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original documents or copy thereof.

1. Name of conveying party(ies): Praveen Jain Yan-Fei Liu Simmi Mangat	2. Name and address of receiving party(ies): Astec International Limited 16 th Floor, Lu Plaza 2 Wing Yip Street Kwun Tong, Hong Kong
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Dates: April 18, 2000; March 27, 2000; June 5, 2000	
4. Application number(s) or patent number(s): 09/312,306	
5. Name and address of party to whom correspondence concerning document should be mailed: COUDERT BROTHERS 4 Embarcadero Center, Suite 3300 San Francisco, CA 94111	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h)): \$40.00 <input checked="" type="checkbox"/> Enclosed 8. The Commissioner is hereby authorized to charge any additional fees which may be required in this application under 37 C.F.R. §§1.16-1.17 during its entire pendency, or credit any overpayment, to Deposit Account No. 13-0201. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 13-0201.
DO NOT USE THIS SPACE	
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  Donald L. Bartels Registration No. 28,282 Date: <u>June 14, 2000</u> *Total number of pages including cover sheet: 4	

OMB No. 0651-0011 (exp. 4/94)

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PATENT
REEL: 010924 FRAME: 0701

ASSIGNMENT

We, **Praveen Jain**, having a residence address of 83 McGibbon Drive, Kanata, Ontario, Canada, **Yan-Fei Liu**, having a residence address of 58 Moresby Drive, Kanata, Ontario, Canada, and **Simmi Mangat**, having a residence address of 20433 Lakeshore, Bai d'urfe, Quebec, Canada, for good and valuable consideration, receipt of which is hereby acknowledged, have assigned and do hereby assign to **ASTEC INTERNATIONAL LIMITED**, a Hong Kong corporation having a place of business at 16th Floor, Lu Plaza, 2 Wing Yip Street, Kwun Tong, Hong Kong, its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by us and disclosed in the application for Letters Patent of the United States entitled:

**ASYMMETRICAL PULSE WIDTH MODULATED RESONANT
DC-DC CONVERTER WITH COMPENSATING CIRCUITRY**

Serial No. **09/312,306**, filed May 14, 1999 (Attorney Docket No. **6537/53820**), and in and to all Letters Patent and all convention and Treaty rights of all kinds, in all countries throughout the world, for all such subject matter. We agree to sign all documents necessary to secure all said Letters Patent and rights, and request issuance of all said Letters Patent to the above assignee in accordance with this Assignment.

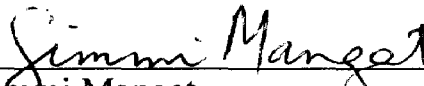
Date: April 18/2000

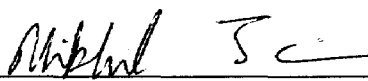

Praveen Jain

Date: _____

Yan-Fei Liu

Date: June 5/2000


Simmi Mangat

WITNESSED BY: 
(Signature of the Witness)

Witness Name: NIKHIL JAIN
(Print or type name)

WITNESSED BY: 
(Signature of Witness)

Witness Name: Guo Wennan
(Print or type name)

ASSIGNMENT

We, **Praveen Jain**, having a residence address of 83 McGibbon Drive, Kanata, Ontario, Canada, **Yan-Fei Liu**, having a residence address of 58 Moresby Drive, Kanata, Ontario, Canada, and **Simmi Mangat**, having a residence address of 20433 Lakeshore, Bai d'urfe, Quebec, Canada, for good and valuable consideration, receipt of which is hereby acknowledged, have assigned and do hereby assign to **ASTEC INTERNATIONAL LIMITED**, a Hong Kong corporation having a place of business at 16th Floor, Lu Plaza, 2 Wing Yip Street, Kwun Tong, Hong Kong, its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by us and disclosed in the application for Letters Patent of the United States entitled:

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Date: _____

Praveen Jain


Date: March 27, 2000

Yan-Fei Liu
Yan-Fei Liu

Date: _____

Simmi Mangat

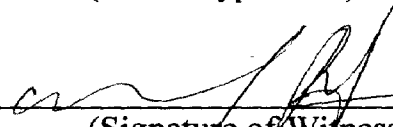
WITNESSED BY:


(Signature of the Witness)

Witness Name:

D. Cooper
(Print or type name)

WITNESSED BY:


(Signature of Witness)

Witness Name:

Rafiq Ahmad
(Print or type name)