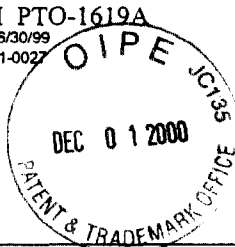


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FORM PTO-1619A  
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12-21-2000

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**



101557854

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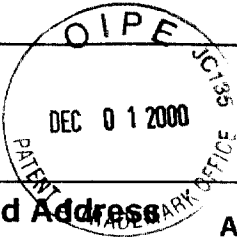
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Patent Application Number(s)

Patent Number(s)

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| <input type="text" value="09/670,088"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

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PCT  PCT  PCT

**Number of Properties** Enter the total number of properties involved. #

**Fee Amount** Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment: Enclosed  Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes  No

**Statement and Signature**

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. Charges to deposit account are authorized, as indicated herein.

James R. Cartiglia

11/21/00

Name of Person Signing

Signature

Date

JOINT

**ASSIGNMENT**

We, the undersigned, BRIAN McNEIL FORD and DANIEL WITOLD KRASSOWSKI, both citizens of the United States of America, residing at: 421 Harvey Avenue, Grayslake, Illinois 60030, and 13049 East Heather Lane, Columbia Station, Ohio 44028, respectively.

HEREBY STATE UNDER OATH that we are the original, first and joint inventors of an invention for: COMPOSITE I-BEAM HAVING IMPROVED PROPERTIES as described and/or claimed in our application for Letters Patent in the United States of America, filed September 26, 2000 and bearing Serial No. 09/670,088, (Docket No. P1018).

NOW, THEREFORE, for one (1) dollar and other good and valuable consideration, the sufficiency of which is hereby acknowledged, we do hereby assign, transfer and sell to GRAFTECH INC., a corporation organized and existing under the laws of the State of Delaware, United States of America, its successors and assigns, having an office at 11709 Madison Ave., Lakewood, Ohio 44107, United States of America as Assignee, without any restrictions, reservations or limitations, our entire right, title, and interest in and to the aforesaid invention and application for Letters Patent and all patents which may be granted thereon, and all divisions, continuations, continuations-in-part, reissues, and extensions thereof;

INCLUDING ALL RIGHTS in and to said invention in any country of the world, including, but not limited to, all priority rights derived from the aforesaid application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property, for any and all member countries of the aforesaid International Convention;

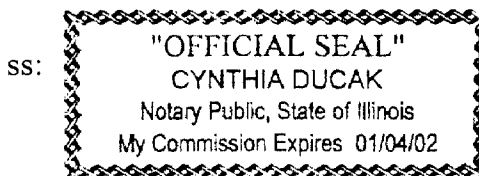
AND FURTHER INCLUDING THE SOLE RIGHT to file such applications under the Patent Laws of any country of the world in its name and/or ours, and the sole right to have patents granted on said applications in its name and/or ours to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment not been made, and to enforce said patents with our right to sue for and recover accrued profits or damages for any and all infringements thereof;

AND agree that we will communicate to said GRAFTECH INC., or its representatives any facts known to us respecting said invention and testify in legal proceedings, sign all lawful papers, execute all divisional, continuing, reissue and other applications, make all rightful oaths and generally do everything possible to aid said GRAFTECH INC., its successors, assigns, and nominees, to obtain and enforce proper protection for said invention in all countries.

SIGNED AND SEALED at Grayslake, IL this 4<sup>th</sup> day of Nov, 2000.

Brian McNeil Ford  
Brian McNeil Ford

State of IL )  
County of Lake )



This 4 day of Nov, 2000, before me personally came the above-named Brian McNeil Ford to me personally known as the individual who executed the foregoing assignment, who has acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Cynthia Ducak  
Notary Public

(Seal)

SIGNED AND SEALED at Lakewood, Ohio this 8<sup>th</sup>  
day of November, 2000.

Daniel Witold Krassowski  
Daniel Witold Krassowski

State of Ohio )  
County of Cuyahoga ) ss:

This 8<sup>th</sup> day of November, 2000, before me personally came the above-named Daniel Witold Krassowski to me personally known as the individual who executed the foregoing assignment, who has acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Lori B. Hoffman  
Notary Public

(Seal)

**LORI B. HOFFMAN**  
Notary Public, State of Ohio, Cuy. Cty.  
My Commission Expires Aug. 9, 2004