

11-14-2002 102279935

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): AG INDUSTRIES, INC. 11-1-02 Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies) Name: SMS DEMAG, INC. Internal Address: Street Address: 100 SANDUSKY STREET City: PITTSBURGH State: PA Zip: 15212 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other Execution Date: JULY 31, 2002

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) SEE ATTACHED LIST B. Patent No.(s) SEE ATTACHED LIST Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: CLIFFORD A. POFF Internal Address: Street Address: 9800B MCKNIGHT ROAD SUITE 115 City: PITTSBURGH State: PA Zip: 15237

6. Total number of applications and patents involved: 11 7. Total fee (37 CFR 3.41): \$440.00 Enclosed Authorized to be charged to deposit account 8. Deposit account number: (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. 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. CLIFFORD A. POFF Name of Person Signing Signature Date: OCTOBER 17, 2002 Total number of pages including cover sheet, attachments, and documents: 11

11/13/2002 6TON11 00000079 5941295 01 FC:802 440.00 DP

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

PAGE 2 OF RECORDATION FORM COVER SHEET PATENTS ONLY

1. U.S. Patent No. 5,941,295

2. U.S. Patent Application Serial No. 09/817,941

3. U.S. Patent No. 5,927,378

4. U.S. Patent No. 5,915,460

5. U.S. Patent No. 5,901,773

6. U.S. Patent No. 5,850,871

7. U.S. Patent No. 5,766,378

8. U.S. Patent No. 5,526,869

9. U.S. Patent No. 5,470,012

10. U.S. Patent No. 5,219,029

11. U.S. Patent No. 6,374,903

ASSIGNMENT

WHEREAS, AG Industries, Inc., a Delaware corporation hereinafter sometimes referred to as the ASSIGNOR and/or one or more of its wholly owned subsidiaries, more particularly, Acutus Mold, Inc., Acutus Holdings, Inc., Alliance Supply Co., Acutus Industries, Inc., and Acutus of Ohio, Inc., owned certain patents (collectively, "Intellectual Property") some of which is identified and described on Schedule A attached hereto; and,

WHEREAS, on or about March 22, 2002, AG Industries, Inc. acting for itself and on behalf of its wholly owned subsidiaries aforesaid, intending to be legally bound, granted, bargained, sold and transferred to SMS Demag Inc., a Pennsylvania Corporation hereinafter sometimes referred to as the ASSIGNEE, the aforesaid Intellectual Property; and,

WHEREAS, AG Industries, Inc. desires and intends to perfect for the record the ownership of ASSIGNEE in the aforesaid Intellectual Property; and,

WHEREAS, ASSIGNEE desires to record its ownership of the Intellectual Property both here in the United States and in other countries in its own name.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR acknowledges and confirms that it has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over to said ASSIGNEE, the entire right, title and interest in and to said Intellectual Property and any and all continuations, divisions and renewals of and substitutes for said Intellectual Property and to and under any and all additional Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of the Intellectual Property, and assigns to and authorizes said ASSIGNEE its successors or assigns to file applications for Letters Patent in all countries, the same to be held and enjoyed by said ASSIGNEE, its successors, assigns, nominees or

legal representatives, to the full end of the term or terms for which Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had sale, transfer and assignment not been made.

It is hereby covenanted that ASSIGNOR has full right to convey the entire interest herein assigned, and that ASSIGNOR has not executed and will not execute any agreement in conflict herewith, and ASSIGNOR further covenants, and agrees that it will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said Intellectual Property in ASSIGNOR, its successors, assigns, nominees, or legal representatives, and ASSIGNOR agrees to communicate to ASSIGNEE or to its nominee all known facts respecting said Intellectual Property, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid ASSIGNEE, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for the Intellectual Property or improvements in any and all countries, all at the expense, however, of ASSIGNEE, its successors, assigns, nominees or legal representatives.

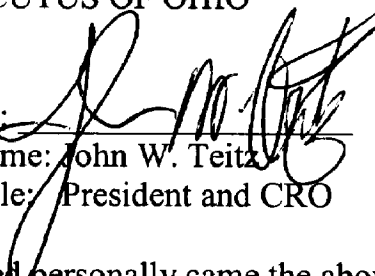
AND, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said ASSIGNEE, its affiliate, subsidiaries, successor assigns of the entire right, title and interest, any and all Letters Patent for the Intellectual Property, including any and all Letters Patent of the United States which may be issued and granted on or as a result of any applications included in the Intellectual Property, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, the undersigned, being properly authorized to execute this

Assignment, hereunto sets their hand and seal.

Executed this 31ST day of July, 2002

AG INDUSTRIES, INC.
ACUTUS MOLD, INC.
ACUTUS HOLDINGS, INC.
ALLIANCE SUPPLY CO.
ACUTUS INDUSTRIES, INC.
ACUTUS OF OHIO

By: 
Name: John W. Teitz
Title: President and CRO

Before me the undersigned personally came the above named, John W. Teitz to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.


Notary

(SEAL)

Notarial Seal
Marilyn Mesta, Notary Public
South Strabane Twp., Washington County
My Commission Expires Oct. 31, 2004
Member, Pennsylvania Association of Notaries

Schedule A

1. United States Patent No. 5,941,295 Entitled System and Method for Removing Crystallized Flux
(File No. 20465-7)

Issued August 24, 1999; Serial No. 08/724,132; filed September 30, 1996 and corresponding foreign patents/patent applications as follows:

Canadian Patent Application 2,267,627 (File No. 20465-8)
Filed September 29 1997;

Japanese Patent No. 3172195 (File No. 20463-2)
Issued March 23, 2001; Serial No. 10-511086; Filed February 25, 1999;

Australian Patent No. 717,506 (File No. 20463-3)
Issued July 13, 2000; Application No. 46,609/97; Filed September 29, 1997;

Chinese Patent Application No. 97197964.2 (File No. 20463-4)
Filed: September 29, 1997;

German Patent Application P 197 82 043.3 (File No. 20463-5)
Filed March 29, 1999;

British Patent No. 2,331,474 (File No. 20463-6)
Issued August 2, 2000: Application No. 9927865.7: Filed November 26, 1999; and

Korean Patent Application 10-1999-7002722 (File No. 20463-7)
Filed March 29, 1999.

2. United States Patent Application Serial No. 09/817941 Entitled: Method and System for producing steel having low nitrogen content, Filed March 27, 2001, (File No 20465-9)
which is a continuation of United States Patent Application Serial No. 292,031, Filed March 18, 1999, and corresponding foreign patents /patent applications as follows:

Canadian Patent Application No. 2,292,591 (File No. 20465- 10)
Filed May 29, 1998;

Mexican Patent Application No. 9911035 (File No. 20465- 11)
Filed November 30, 1999;

Luxembourg Patent No. 90474 (File No. 20463-8)
Issued :March 17, 2000 Application No. 90474 Filed November 30, 1999;

Austria Patent Application No. A9073/98 (File No. 20463-9)

Filed November 30, 1999;

Australian Patent Application No. 743,299 (77,239/98) (File No. 20463-10)

Filed May 29, 1998; and

Divisional patent application No. (File No. 20463-58)

Filed April 24, 2002;

Brazilian Patent Application No. PI 9809148-0 (File No.20463-11)

Filed November 26, 1999;

Chinese Patent Application No. 98805650.X (File No. 20463-12)

Filed November 30, 1999;

German Patent Application No. 198 82 438.6 (File No. 20463-13)

Filed November 30, 1999;

Spanish Patent Application No. 9.950.067 (File No.20463-14)

Filed November 30, 1999;

Finnish Patent Application No. 992549 (File No. 20463-15)

Filed November 29, 1999;

Japanese Patent Application No. 11-501059 (File No.20463-16)

Filed November 29, 1999; and

South Korean Patent Application No. 10-1999-7011163 (File No.20463-17)

Filed November 30, 1999.

3. United States Patent No. 5,927,378 Entitled Continuous Casting Mold and Method (File No. 20465-12)
Issued July 27, 1999; Serial No. 08/822,559; Filed March 19, 1999; and corresponding foreign
patents/patent applications as follows:

Canadian Patent Application No. 2,284,190 (File No. 20465-13)

Filed; March 19, 1998;

Mexican Patent Application No. 998510 (File No. 20465-14)

Filed September 17, 1999;

Chinese Patent No. 98803497.2 (File No.20463-18)

Issued October 3, 2001, Application No. 10-540836, Filed September 30, 1999;

British Patent No. 2337715 (File No.20463-19)

Issued March 6, 2002, Application No. 9922094.9, Filed March 19, 1998;

Brazilian Patent Application No. PI 9808394-5 (File No. 20463-20)
Filed October 20, 1999;

German Patent Application No. 198 82 215.4 (File No. 20463-21)
Filed September 30, 1999;

Japanese patent application No. 10-540836 (File No.20463-22)
Filed September 20, 1999; and

South Korean Patent Application No. 10-1999-7008517 (File No.20463-23)
Filed September 18, 1999.

4. United States Patent No. 5,915,460 Entitled Guide Segment Support System for Continuous Casting,
(File No. 20465-15)

Issued June 29, 1999, Serial No. 08/960,729, Filed October 30, 1997 and corresponding foreign
patents/patent applications as follows:

Canadian Patent Application 2,262,677 (File No. 20465-16)
Filed September 5, 1997;

Germany Patent Application No. 197 81 923.0 (File No. 20463-24)
Filed August 5, 1997; and

Japanese patent application No. 10-508127 (File No.20463-25)
Filed August 5, 1997.

5. United States Patent No. 5,901,773 Entitled: Dynamic Clamping System for continuous casting Machine
(File No. 20465-17)

Issued May 11, 1999, Serial No. 08/828,925: filed March 28, 1997 and corresponding foreign
patents/patent applications as follows:

Canadian Patent Application 2,284,918 (File No. 20465-18)
Filed March 27, 1998;

Chinese Patent Application No. 98803667.3 (File No. 20463-26)
Filed September 29, 1999;

German Patent Application No. 198 82 263.4 (File No. 20463-27)
Filed September 27, 1999;

Japanese Patent Application No. 541838/98 (File No. 20463-28)
Filed March 27, 1998; and

6. United States Patent No. 5,850,871: Entitled Improved Foot Guide and control system for continuous casting for machine
(File No. 20456-19)

Issued December 22, 1998, Serial No. 08/627450, Filed April 4, 1996 and corresponding foreign patents/patent applications as follows:

Chinese Patent No. 97193594.7 (File No. 20463-30)

Issued October 3, 2001, Serial No. 97193594.7, Filed April 4, 1997;

German Patent Application No. 197 81 696.7 (File No. 20463-31)

Filed October 5, 1998;

British Patent No. 2,326,364 (File No. 20463-32)

Issued December 29, 1999, Serial No. 98 21405.9, Filed October 1, 1998;

Brazilian Patent Application No. PI 9708602-9 (File No. 20463-33)

Filed October 5, 1998; and

Japanese Patent Application No. 9-5236526 (File No. 20463-34)

Filed October 5, 1998.

7. United States Patent No. 5,766,378 Entitled: Stainless steel surface claddings of continuous caster rolls
(File 20465-20)

Issued March 16, 1998, Serial No. 08/554140, Filed November 6, 1995 and corresponding foreign patents/patent applications as follows:

Canadian Patent No. 2,236,930 (File No. 20465-21)

Issued February 13, 2001, Serial No. 2,236,930, Filed November 6, 1996;

Mexican Patent Application No. 983560 (File No. 20465-22)

Filed May 6, 1998;

Australian Patent No. 709,229 (File No. 20463-35)

Issued December 9, 1999, Serial No. 76120/96 Filed November 6, 1996;

British Patent No. 2,322,587 (File No. 20463-36)

Issued June 23, 1999, Serial No. 9809554.0, Filed November 6, 1996;

Brazilian Patent Application Serial No. PI 9611711.7 (File No. 20463-37)

Filed May 6, 1998;

Chinese Patent Certificate No. 88520 (File No. 20463-38)
Issued June 26, 2002, Serial No. 96198129.6, Filed November 6, 1996;

Czech Patent Application Serial No. PV 1387-98 (File No. 20463-39)
Filed August 16, 1999;

German Patent Application No. 196 81 644 (File No. 20463-40)
Filed May 12, 1998;

Hong Kong Application No. 99 101431.7 (File No. 20463-41)
Filed April 9, 1999;

Japanese Patent Application No. 09-518391 (File No. 20463-42)
Filed November 6, 1996; and

South Korean Patent Application No. 703353/1998 (File No. 20463-43)
Filed May 6, 1998.

8. United States Patent No. 5,526,869, Entitled Mold for continuous casting system
(File No. 20465-23)
Issued June 18, 1996, Serial No. 314.746, Filed September 29, 1994 and corresponding foreign
patents/patent applications as follows:

Canadian Patent Application No. 2,133,606 (File No. 20465-24)
Filed October 4, 1994.

9. United States Patent No. 5,470,012, Entitled Method for forming surfaces of continuous casting molds
(File No. 20465-25)
November 28, 1995, Serial No. 232,798, Filed April 25, 1994 and corresponding foreign patents/patent
applications as follows:

Canadian Patent Application No 2,188,829 (File No. 20465-26)
Filed October 24, 1996

10. United States Patent No. 5,219,029 Entitled Oscillator for continuous casting mold
(File No. (20465-27)
Issued June 15, 1993, Serial No. 07/848590, Filed March 9, 1992 and corresponding foreign
patents/patent applications as follows:

Canadian Patent No. 2,128,623 (File No. 20465-28)
Issued December 15, 1998, Serial No. 2,128,623, Filed March 9, 1993;

German Patent No. 693 11 539.4 (File No. 20463-45)
Issued June 11, 1997, Serial No. 93 905 121.5(EP) Filed March 9, 1993;

British Patent No. 0 630 305 (File No. 20463-46)
Issued June 11, 1997 Serial No. 93 905 121.5(EP) Filed March 9, 1993; and

Japanese Patent No. 2002946 (File No. 20463-47)
Issued December 20, 1995, Serial No. 5-515208, Filed March 9, 1993.

11. United States Patent No. 6,374,903 Entitled System and process for optimizing cooling in continuous casting mold (File No. (20465-29)
Issued April 23, 2002, Serial No. 09/658,997, Filed September 11, 2000