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RE: Our File: M60

1. Name (and address) of
conveying party(ies)

2. Name and Address of
receiving party(ies)

MAN Gutehoffnungshütte
Aktiengesellschaft
Bahnhofstraße 66
46145 Oberhausen, Germany
Execution Date:
September 21, 1998

SMS Schloemann-Siemag AG
Eduard-Schloemann-Strasse 4
D-40236 Düsseldorf,
Germany

3. Nature of conveyance:

(X) Assignment;
() Security Agreement;
() Other;

() Merger
() Change of Name

Execution Date: September 21, 1998

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)

B. Patent No.(s)

5,413,621
4,397,450
4,878,655
4,881,869
4,828,228
5,251,882
5,058,288
5,244,188
5,650,119
5,676,908
5,678,806
5,263,690
4,435,812
4,829,538
4,730,337
4,700,355

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880.00 DP

for OK

4,730,338
4,720,838
4,843,614
5,381,440
5,602,867
5,673,901

Additional numbers attached () Yes (X) No

5. Name and address of party to whom correspondence concerning document should be mailed:

**McGlew & Tuttle, P.C.
Scarborough Station
Scarborough, New York 10510-0827**

6. Total number of applications and patents involved: 22

7. Total fee (37 CFR 3.41) \$ 880.00

(X) Enclosed

() Authorized to be charged to deposit account

() Already submitted

8. Deposit account number: 13-0410

(Attach duplicate copy of this page if paying by deposit account)

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9. 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.

John James McGlew

Name of person signing

Reg. No. 31,903

Signature

October 7, 1998

Date

Total number of pages comprising cover sheet, attachments, and documents 5

JJM:by

Enclosures: - Assignment Document
 - Check for recording fee of \$880.00

SCARBOROUGH STATION
SCARBOROUGH, NEW YORK 10510
DATED: October 7, 1998

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ON October 7, 1998

McGLEW AND TUTTLE, P.C., SCARBOROUGH STATION,
SCARBOROUGH, NEW YORK 10510-0827

By:  Date: October 7, 1998

M60.25

ASSIGNMENT OF ISSUED PATENTS

WHEREAS, MAN Gutehoffnungshütte Aktiengesellschaft

**Whose complete post office address is: Bahnhofstraße 66
 46145 Oberhausen, Germany**

is the present assignee of:

U.S. Patent No. 5,413,621

**Issued : May 9, 1995
Entitled : PROCESS FOR COOLING AND PURIFYING
 HOT, DUST-LADEN FLUE GASES CONTAINING
 DIOXINS AND OTHER TOXIC SUBSTANCES**

U.S. Patent No. 4,397,450

**Issued : August 9, 1993
Entitled : ARRANGEMENT FOR SECURING PLATE-TYPE
 COOLERS IN METALLURGICAL FURNACES**

U.S. Patent No. 4,878,655

**Issued : November 7, 1989
Entitled : FURNACE CHARGING THROAT
 CONSTRUCTION**

U.S. Patent No. 4,881,869

**Issued : November 21, 1989
Entitled : FURNACE CHARGING THROAT
 CONSTRUCTION**

U.S. Patent No. 4,828,228

**Issued : May 9, 1989
Entitled : APPARATUS FOR CHANGING THE LEVEL OF
 TAP RUNNER OF A SHAFT FURNACE**

U.S. Patent No. 5,251,882

**Issued : October 12, 1993
Entitled : LIQUID-CARRYING COOLING ELEMENT FOR
 SHAFT FURNACES**

U.S. Patent No. 5,058,288

Issued : October 22, 1991

**Entitled : PLUMB BOB DEVICE FOR DETERMINING THE
BED HEIGHT OF BULK MATERIAL IN A SHAFT
FURNACE**

U.S. Patent No. 5,244,188

Issued : September 14, 1993

**Entitled : LOCKING DEVICE FOR THE
OVEREXTENSIONING OF A PIPELINE
COMPENSATOR**

U.S. Patent No. 5,650,119

Issued : July 22, 1997

Entitled : COOLING PLATE FOR A BLAST FURNACE

U.S. Patent No. 5,676,908

Issued : October 14, 1997

Entitled : PLATE FOR COOLING SHAFT FURNACES

U.S. Patent No. 5,678,806

Issued : October 21, 1997

Entitled : PLATE COOLERS FOR SHAFT FURNACES

U.S. Patent No. 5,263,690

Issued : November 23, 1993

**Entitled : APPARATUS FOR METALLURGICAL
TREATMENT OF MOLTEN STEEL**

U.S. Patent No. 4,435,812

Issued : March 6, 1984

Entitled : ELECTRIC FURNACE CONSTRUCTION

U.S. Patent No. 4,829,538

Issued : May 9, 1989

Entitled : FURNACE HEARTH

U.S. Patent No. 4,730,337

Issued : March 8, 1988

**Entitled : METHOD AND APPARATUS FOR OPERATING
A DIRECT-CURRENT ARC FURNACE**

U.S. Patent No. 4,700,355

Issued : October 13, 1987

**Entitled : ELECTRICAL MELTING FURNACE
EXCHANGEABLE ELECTRODE ASSEMBLY A
METHOD FOR CHANGING A CONTACT
ELECTRODE ASSEMBLY**

U.S. Patent No. 4,730,338

Issued : March 8, 1988

**Entitled : COUPLING CONSTRUCTION FOR AN
ELECTRIC FURNACE**

U.S. Patent No. 4,720,838

Issued : January 19, 1988

**Entitled : CONTACT CONNECTION BETWEEN A
CONTACT ELECTRODE AND A COOLING
MEDIUM AND A CURRENT SUPPLY LINES FOR
AN ELECTRICAL MELTING FURNACE**

U.S. Patent No. 4,843,614

Issued : June 27, 1989

Entitled : METALLURGICAL VESSEL

U.S. Patent No. 5,381,440

Issued : January 10, 1995

**Entitled : BOTTOM ELECTRODE FOR DIRECT CURRENT
ARC FURNACES**

U.S. Patent No. 5,602,867

Issued : February 11, 1997

**Entitled : METHOD AND DEVICE FOR OPERATING AN
ARC FURNACE WITH TWO VESSELS**

U.S. Patent No. 5,673,901

Issued : October 7, 1997

**Entitled : DEVICE FOR TRANSPORTING MOLTEN METAL
IN THE POURING BAY OF A SHAFT FURNACE
AND PROCESS FOR OPERATING THIS DEVICE**

AND WHEREAS, SMS Schloemann-Siemag AG

whose complete post office address is: Eduard-Schloemann-Strasse 4
D-40236 Düsseldorf, Germany

is desirous of acquiring an interest therein and in said Letters Patent
obtained therefore in the United States;

NOW, THEREFORE, be it known by all whom it may
concern that for and in consideration of the sum of One Dollar (\$1.00) or
the equivalent thereof in foreign currency and other valuable consideration
to us in hand paid, the receipt of which is hereby acknowledged, we have
assigned, sold and set over and by these presents assign, sell and set over
unto the said Assignee for the territory of the United States of America and
not elsewhere, the full and exclusive right, title and interest in and to the
said invention, as fully set forth and described in the above-identified U.S.
Patents said inventions and Letters Patent to be held and enjoyed by the
said Assignee for its own use and behoof and for the use and behoof of its
successors and assigns to the full end of the term for which said Letters
Patent are granted, as fully and entirely as the same would have been held
by us had this assignment and sale not been made.

IN WITNESS WHEREOF, we have hereunto set our hand
this 21th day of September, 1998.

MAN Gutehoffnungshütte Aktiengesellschaft

By: [Signature] [Signature]
(ppa. Dr. Sontag) (ppa. Singelmann)
Title: _____

Witness:

[Signature]
Sabine Deuber

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