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Properties of Uranium, by C. Sella, J. J.
Trillat, 38 pp.

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ABC EW-Tr-5

Sci - Min/Met

Oct 59

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Relation Between Processing Conditions and the
Structure and Properties of Al-1 25% Manganese
Alloys, by M.K.B. Day.

FRENCH, per, Les Memoires Scientifiques de la
Revue de Metallurgie, Vol. 56, No. 2, 1959,
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Sci -
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AEC SCL-T-359

Sci -
H Jun 61

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Hydrogen, by S. Besnard, J. Talbot. UNCL

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BISI 1380

(L5)

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Sci - Min/Mag
Oct 59

Improvement in the Production of Open-Hearth
Furnaces Heated by Low Calorie Gas by the
Injection of Compressed Fluids Into their Gas
Burners, by I. Septier, et al.

FRENCH, per, Revue Metallurgie, Feb 1959,
pp 179-202; Centre Doc Sider Circ, No 2,
1959, pp 445-460.

BISI 1693

Sci - Engr

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Aug 60

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FRENCH, per, Revue de Metallurgie, Vol LVI, No 3,
1958, pp 215-223.

AEI T/1467

Sci
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Contribution to the Study of Uranium Alloys by
Thermal Differential Analysis Under Vacuum, by
J. Ballot, J. M. Henry, G. Cabane, 13 pp.

FRENCH, per, Mem Sci Rev Met, Vol LVI, 1959,
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AEC UCRL Tr-714(L)

Sci - Min/Metals
Feb 62

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Study of the Portevin - Le Chatelier Phenomenon at
Various Temperatures in Aluminum - Magnesium Alloys,
by J. Caisso, 26 pp.

FRENCH, per, Revue de Metallurgie, Vol LVI, 1959,
pp 237-246. 9077337

ABC UCRL-Trans-656(L)

Sci - Min/Met
Jul 61

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Effect of the Quenching Rate on the Structure
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FRENCH, par. Revue de Metallurgie LVI, No 3, 1959.
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ID 2204003568

Sci-B&H
May 68

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On the Weldability of Various Carbon or Alloyed Steels,
by C. Boques, H. Lejay, Ch. Dubois, P. Bastien, 19 pp.

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Sci
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Study of the Segregation of Arsenic and Copper by
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Examination With the Castaing Microtester, by
C. Crussard. UNCL

FRENCH, per, Rev Mat, Apr 1959, pp 395-406.

BISI 1403

SI A 33-11373
(LA 15a.Od.)

Sci - Min/Met; Phys
Nov 59

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<p>Develay, R., Croutzelles, M., and Chevigny, R. BURING PHENOMENA AND THE QUALITY OF WELDS ON LIGHT ALLOYS (Phenomenes de Brulure et Qualite des Soudures des Alliages Legers). Nov 63, 24p (figs omitted) 3refs Order from SLA \$2.60</p> <p>TT-64-14007</p> <p>Trans. of Revue de Metallurgie (France) 1959, v. 56, no. 5, May, p. 409-417.</p> <p>(Metallurgy, TT, v. 11, no. 12)</p>	<p>TT-64-14007</p> <p>I. Develay, R. II. Croutzelles, M. III. Chevigny, R.</p> <p>Office of Technical Services</p>
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Uranium-Molybdenum Alloys With 0.5-3 Percent
Molybdenum. General Properties, Transformation
Kinetics, by J. Lehman.

FRENCH, per, Revue de Metallurgie, Vol LVI, No 5,
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Fulmer Res Inst
Stoke Poges, Bucks.

Sci - Min/Mat

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Sep 60

Influence of Various Trace Elements on the
Forgability of Steel, by C. Roscard, 1958.
P. Blain. USCL

FIREGIL, For, Rev Mat, Aug/Sep 1959, pp 175-180.

aisi 1565

(L3.Os.Od.)

Sci - Min/Mat

Mar 60

110,288

The Completion of Basic Bessemer Conversion, by
J. Marot, J. Harveng.

FRENCH, per, Revue de Metallurgie, Oct 1959, pp 211-
220.

BISI 1546

Sci - Eng

Oct 60

The Beneficiation of Lorraine Ores, by
M. Lelong, P. Emery, 7 pp.

FRENCH, per, Revue Metallurg, Vol LVII,
No 1, 1960, pp 13-20.

Broken Hill Proprietary
Co Ltd (CRL/T.395)

Sci - ~~EMM~~ Min/Met
Nov 61

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CONTINUOUS PRE-REFINING OF PIG IRON IN THE BLAST-
FURNACE RUNNER BY BLOWING PURE OXYGEN THROUGH POROUS
TILES, BY P. LEROY.

FRENCH, PER, REVUE DE METALLURGIE, VOL ~~XXXX~~ LVII,
NO 1, 1960, PP 21-43.

DEPT OF INTERIOR
TN7 E57 NO 534

SCI - MIN/MET

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SEP 62

Brittleness of Special Steels in the As-Cast
Condition; Influence of Impurities, by A
R. Castro, A. Gueussier.

FRENCH, per, Revue Met, No 2, 1960, pp 135-148.

BISI 1816

Sci - M/M

129, 132

Oct 60

Experimental Investigation of Solidification
Cracks in Steels: The Influence of Impurities,
by A. Gucuseier, R. Castro.

FRENCH, per, Revue de Metallurgie, Feb 1960,
p 117-134.

BISI 1824

135,562

Sci - Min/Met

Rivière, M.
THE NOTION OF MOMENTUM IN THE BURNER
AND THE HEATING OF MARTIN FURNACES.
[1960] [10] p. 2 refs.
Order from SLA m\$1.80, pb\$1.80 61-10626

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no. 5, p. 297-303.

(Metallurgy, IT, v. 5, no. 10)

61-10626

1. Open hearth furnaces -
Heating
1. Rivière, M.

151594

Office of Technical Services

Application of the Locati Method for Testing
the Fatigue Limits of Automobile Parts, by
C. Daubertes, J. Beuret.

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Apr 1960, pp 337-346.

BIBI 3238

Sol - Ingr, M/M
Jul 63

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Differential Determination of Oxygen in Metals by
Bromination-Reduction, by R. Durand, P. Nouyrigat.

FRENCH, per, Revue de Metallurgie, Vol LVII,
Apr 1960, pp 347-353.

BISI 1796

Sci - Min/Metals

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Sep 61

list 109

Towards International Standardization of Reports on
Blast-Furnace Trials, by C. G. Thibaut.

FRENCH, per, Revue de Metallurgie, Vol LVII, No 3,
1960, pp 379-386.

BISI 1895

Sci - Eng

Jun 61

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Possibilities Offered by the O.L.P. Process for the
Production of Dead-Soft Rimming Steels for Deep
Drawing, by J. Samson.

RUSSIAN, per, Revue de Metallurgie, May 1960,
pp 387-395.

~~*BISI-1846~~ (withdrawal)
* British Iron & Coal Trades Review

Sci - Engr

Oct 60

Decamps, G.
USE OF COLD GASEOUS COMBUSTIBLE FOR THE
HEATING OF OPEN-HEARTH FURNACES. 23 Jan 61,
7p.
Order from SLA mi\$1.80, ph\$1.80 61-10625

Trans. of Revue de Métallurgie (France) 1960, v. 57,
no. 5, p. 397-400.

151797

(Metallurgy, TT, v. 5, no. 9)

61-10625

1. Open hearth furnaces--
Operation
2. Gases--Pressure
1. Decamps, G.

Office of Technical Services

Hussou, G.
CONCLUSIONS TO BE DRAWN FROM RECENT
STUDIES OF OUR CONCEPTION OF OPEN HEARTH
FURNACES. [1960] [23]p. 11 refs.
Order from SLA m\$2.70, p\$4.80 61 10633

Trans. of Revue de Metallurgie (France) 1960, v.57,
no. 5, p. 401-407; IRSID Publication, series A.
[sic] no. 237,]-: 60.

1. Open hearth furnaces:
Theory
1. Hussou, G.

101590

Office of Technical Services

(Metallurgy, T1 : 5, no. 10)

H. Margot-Marette

Fusibility and Crystallisation of Basic
Steelworks Slag Containing Small Amounts of
Phosphates.

FRENCH, per, Revue de Metallurgie, Vol 61,
1964, pp 709-713
NYC 72-60316-11F

sept 72

The Hydrogen Embrittlement of Metals. The Effect
of Crystal and Electron Structure, by P. Blanchard,
A. R. Troiano.

FRENCH, per, Revue de Metallurgie, Vol LVII, No 6,
1960, pp 409-422.

NZDIA

ATS-10 P62F

Sci. ...
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The Rapid Determination of Iron in Bessemer
Slags by X-Ray Fluorescence in Steel Works, by
Harveng, et al.

FRENCH, per, Revue de Metallurgie, Vol LVII, Mar
1960, pp 423-436.

BISI 2074

Sci - Engr

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Jun 61

Study of Scale Formed on Strip During Hot-Rolling,
by M. Cagnet, J. Moreau.

FRENCH, per, Revue de Metallurgie, Vol LVII, No 5,
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BISI 1873

Sci. - Engr

Jul 61

161,050

Use of the Large 80-Ton Arc Furnaces at the Breuil
Steelworks of the Societe des Forges et Acieries
du Creusot (with Discussion), by J. Colin.

FRENCH, per, Revue de Metallurgie, Jun 1960,
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RLSI 1850

Sci - Engr

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Mar 61

The Influence of Vacuum Casting on Certain
Properties of Steels (Sheet), by L. Colombier,
C. Royer.

FRENCH, per, Revue de Metallurgie, Jun 1960,
pp 491-499.

BISI 1855
11

Sci - Min/Met

134,014

Choice of Steel With High Yield Point for Welded
Containers at High Temperatures and Pressures, by
J. E. Roux. (for Service)

FRENCH, par, Revue de Metallurgie, No 6, 1960,
pp 507-519.

BISI 1889

Sci - Engr

Feb 61

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Life of Ingot Moulds - Investigation of Scatter -
Progress to be Made, by J. Duflot, J. Durand,
J. O. Margerie.

FRENCH, per, Revue de Metallurgie, Vol LVII,
Jul 1960, pp 573-587.

BIBI 2892

Sci - m/m

Jan 63

list 157

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Non-Destructive Electronic Microfractography,
by R. Mencarelli,

FRENCH, per, Revue Metallurgie, Vol XVII, No 8,
1960, pp 578-588.

OROB 1991.

Sst
WFOur-France
Electronics
Jan 63

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Present Position of Large-Capacity Arc Furnaces
in Steelworks, by R. Boutigny, C. Barbazangea.

FRENCH, per, Revue de Metallurgie, Vol LVII,
Jul 1960, pp 589-600.

BISI 2024

Sci - Ingr

Jun 61

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61-10624

Septier, L. and Rivière, M.
PRINCIPLE REMARKS MADE AFTER THE VISIT
OF EIGHT AMERICAN OPEN HEARTH FURNACE
SHOPS. (1960) 5p.
Order from SLA \$1.10

61-10624

Partial trans. of Revue de Métallurgie (France) 1960,
v. 37, no. 9, p. 801-803.

DESCRIPTORS: Open hearth furnaces

I. Septier, L.
II. Rivière, M.

PT 106-103
B 106
(106-103)
101600

Office of Technical Services

(Metallurgy, TT, v. 6, no. 1)

The Problem of the Quality of Large Steel Forgings,
by P. Bastien.

FRENCH, per, Revue de Metallurgie, Vol LVII,
1960, pp 815-826.

BISI 2067

Sci - Min/Met

Jun 61

154, 819

Reduction of Iron Ores and the Use of
Sponge Iron or Reduced Ores, by
I. Astier.
FRENCH, per, Revue de Metallurgie,
Vol 57, 1960, pp 867-880.
NTC 72-11211-11F

May 72

New Possibilities in Metallurgy Thanks to the
Reactions Obtained by the Injection of Pulverulent
Materials Into Liquid Metals, by M. Allard.

FRENCH, per, Revue de Metallurgie, Vol LVII,
Nov 1960, pp 985-989.

BISI 1968

Sci - Min/16at

Jul 61

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246-22111

The Determination of Oxygen in Liquid Thomas
Steel. Techniques for Taking a Liquid Sample
and Its Analysing for the Gas, by J. Marot, J.
Harveng.

FRENCH, per, Revue de Metallurgie, Vol LVII,
Nov 1960, pp 991-997.

BISI 2106

Sci - Min/Met
Jun 61

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The
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The Phenomena of Beading and Flattening of the
Rolls in Four-High Mills, by B. Fazan.

FRENCH, per, Revue de Metallurgie, Vol LVII,
No 11, 1960, pp 1003-1018.

BISI 3341.

Sci - M/M
Nov 63

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Structural Phenomena Related to the Hot Rolling
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FRENCH, per, Revue de Metallurgie, Vol LVII,
Nov 1960, pp 1019-1031.

BISI 2055

Sci - Min/Met

156,535

Jun 61

Study With Models of the Speed of Mass Transfer
Between Metal and Slag in the Making of Steel,
by P. Roguet, J. Adam-Gironne.

FRANCE, per, Revue de Metallurgie, Vol LVII,
Dec 1960, pp 1081-1089.

DISI 2153

Sci - Min/Met

Jun 61

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Study of the Heterogeneity of Large Krypton Atoms,
by C. Rogues, et al.

FRENCH, par, Revue de Metallurgie, Vol LVIII,
Dec 1960, pp 1091-1105.

BISI 2373
CRL/T. 282

Sci - Engin

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Dec 61

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Colombier, L.
EFFECT OF BORON ON THE CREEP PROPERTIES
OF 18-8 STEELS. [1962] [4]p.
Order from SLA \$1.10 62-16204

I. Colombier, L.

Trans. of Revue de Metallurgie (France) 1960, v. 57
[no. 12] p. 1105-1106.

DESCRIPTORS: *Steel, *Creep, *Boron, Castings,
Rupture, Chemical reactions, Tests, Statistical
analysis, *Heat resistant alloys.

(Metallurgy--Ferrous Metals, TT, v. 8, no. 4)

Office of Technical Services

Determination of Carbon in Low-Carbon Steels and
Ferro-Alloys, by R. Dezirat.

FRENCH, per, Revue de Metallurgie, Vol LVII,
Dec 1960, pp 1125-1132.

BISI 2374

Sci - Min/Metals

Mar 62

list 119

186,958

Determination of Oxygen by Reductive Fusion in Argon, by M. Hanin.

FRENCH, per, Revue de Metallurgie, Vol LVII, Dec 1960, pp 1133-1141.

BISI 2375

AECTr527E

906697E 186, 929

Sci - min/metals

Mar 62

list 121

Quaternary Slags $\text{CaO-MgO-Al}_2\text{O}_3\text{-SiO}_2$: Initial
Crystallization Temperature and Fields of Crystallization
on Constant Magnesia Planes, by G. Cavalier,
M. Sandrea-Deudon.

FRENCH, per, Revue de Metallurgie, Vol LVII, No 12,
1960, pp 1143-1147.

S

BISI 2265

Sci - Chem
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Sci - Chem

Jul 61

High Top Pressure and Various Injections:
Experience Gained on the International Low-Shift
Furnace at Liege, by E. Bonnaure.

FRUNICH, P., Revue de Metallurgie, Vol. LVIII,
Jan 1961, pp 13-24.

BISI 2210

Sci - Eng

204, 781

Jul 62

List 138

The Kaldor Process at Sollac, by R. Colmant, et al.
FRENCH, par, Revue de Metallurgie, Vol LVIII,
Jan 1961, pp 39-43.

BIBI 2327

WEur - France

ECON

Sep 61

List 110

168, 447

62-10205

Collette, G., Roederer, C., and Crussard, C.
STUDY OF NITROGEN PRECIPITATION IN PURE
IRON-NITROGEN ALLOYS BY MEANS OF INTER-
NAL FRICTION AND TENSILE TESTS; APPLICA-
TION TO THE AGEING OF LOW CARBON STEELS.
[1961] [26]p. 14 refs.
Order from SLA \$2.60

- I. Collette, G.
- II. Roederer, C.
- III. Crussard, C.

62-10205

Trans. of Revue de Metallurgie. Memoires Scien-
tifiques (France) 1961, v. 58, no. 1, p. 61-72.

DESCRIPTORS: *Iron alloys, *Nitrogen alloys, Pre-
cipitation, Internal friction, *Steel, Aging Mechanical
properties.

(Metallurgy, TT, v. 7, no. 9)

Office of Technical Services

Study of the Refractory Properties of Blast
Furnace Slags by Means of Spherical Specimens,
by B. Zoja.

FRENCH, per, Revue de Metallurgie, Vol LVIII,
Feb 1961, pp 131-136.

BIBI 2702

Sci - Engr

196, 162

May 62

list 133

CONTRIBUTION TO THE KNOWLEDGE OF THE PHENOMENA
PRODUCED DURING THE ANNEALING OF COLD ROLLED MILE
STEEL FOR DEEP-DRAWING, BY G. ODOE, V. BERRUTI.

FRENCH, PBR, REVUE DE METALLURGIE, VOL LVIII,
FEB 1961, PP 165-176.

BISI 2719

SCI - ENGR

AUG 62

206,195

LIST L42

The Determination of Nitrogen in Steel, Iron and
Ferro-Alloys, by J. Calmettes, H. Guinot.

FRENCH, per, Revue de Metallurgie, Vol LVII, Oct 1960,
pp 925-933.

BISI 2166

Sci - Min/Metals

Sep 61

168; 468

List 108

Analysis of Hydrogen, Oxygen and Nitrogen in Metals
Under Reducing Conditions in Argon, by J. Bancart, J.
Marot.

FRENCH, par, Revue de Metallurgie, Vol LVII,
Oct 1960, pp 911-917.

AEC T-6 5272 9067007
NISI 2157

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Sci - Chem

Sep 61

List 108

Application of Chromatography to the Analysis
of Gas Mixtures Extracted From Metals by Vacuum
Melting Under Reducing Conditions, by C. Baque,
L. Champeix.

FRENCH, per, Revue de Metallurgie, Oct 1960,
pp 919-923.

AEC TR 5273
BISI 2010 9066992

Sci - Phys

Apr 61

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The Determination of Nitrogen in Steel, Iron and
Ferro-Alloys, by J. Calmettes, H. Guinot.

FRENCH, per, Revue de Metallurgie, Vol LVII, Oct 1960,
pp 925-933.

BISI 2166

Sci - Min/Metals

Sep 61

List 108

168, 468

<p>Messin, G. APPLICATION OF LD (BASIC OXYGEN) PROCESS TO HIGH PHOSPHORUS PIG IRON: TECHNIQUE USED AT POMPEY STEELWORKS. Apr 62, 1300 words. Order from HB \$5.00 HB-5290</p> <p>Trans. of Revue de Métallurgie (France) 1960, v. 57, no. 10, p. 947-954.</p> <p>DESCRIPTORS: *Cast iron, Processing, Phosphorus, Oxygen, *Steel industry.</p> <p>(Metallurgy--Ferrous Metals, TT, v. 8, no. 4)</p>	<p>62-17091</p> <p>I. Messin, G. II. HB-5290 III. Bruteher, Henry, Altadena, Calif.</p> <p>Office of Technical Services</p>
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Application of Gas Phase Chromatography to the
Determination of Hydrogen, Nitrogen and Oxygen in
Iron and Steel, by P. Tyou, A. Hans.

FRENCH, per, Revue de Metallurgie, Vol LVIII,
Feb 1961, pp 187-193.

BISI 2174

Sci - Chem

Mar 62

list 121

186,928

Refractories for the Checkerwork of Open-Hearth
Furnaces, by J. Montagnier.

REFERENCE, per, Revue de Metallurgie, Vol LVIII,
Mar 1961, pp 249-256.

BISI 2703

Sci - Engr

204, 618

Jul 62

list 141

A Contribution to the Study of Metal Flow From
a Nozzle, by J. Chedaille, P. Stienne, E. Lepicard,
et al.

FRENCH, per, Revue de Metallurgie, Vol LVIII,
Mar 1961, pp x 257-266.

BISI 2738

Sci - Min/metals

Sep 62

211, 274

Can We Produce Electric Furnace Steel With
Less Than Two ML Hydrogen Per Hundred
Grams, by H. Chvorinov.

FRENCH, per, Revue de Metallurgie,
Vol LVIII, No 3, 1961, pp 271-275.

HB 5235

Sci - Engr
Dec 61

175.002

Study of the Expansion of Zircaloy-2 Tubes, by
J. Jay, et al.

FRENCH, per, Revue de Metall, Vol LVIII, No 4, 1961,
pp 351-362.

UKAEA-Risley Tr-324
Available on loan only

Sci - Mat & Met

Jul 63

238,335

Guarantees of Shock-Resistance in Specifications
for Constructional Steel, by M. de Kerversan.

FRENCH, per, Revue de Metallurgie, Vol LVIII,
May 1961, pp 393-400.

SIC 260

BTC 260

Sci - Engr

Jul 62

List No 57

203.439

Application of Vacuum Bubbling to the Degassing
of Metals in the Ladle, by J. Verge, J. Duflot,
E. Spire, et al.

FRENCH, par, Revue de Metallurgie, Vol LVIII,
Jun 1961, pp 465-482.

BISI 2944

Sci -- min/metals

Oct 62

212,273

list 149

Influence of the Chemical Composition and in
Particular the Carbon Content on Weldability, by
P. Rousseau.

FRENCH, per, Revue de Metallurgie, Vol LVIII, Jun
1961, pp 527-535.

BIBI 2747

Sci + Chem

203,505

Jul62

list 136

THE APPLICATION OF ELECTRONICS IN ROLLING MILLS, BY
M. PFISTER.

FRENCH, PER, REVUE DE METALLURGIE, NO 7, 1961,
PP 589-598.

BISI 2700

SCIENCE ELECTRON

AUG 62
LIST 144

207,139

62-14425

Ravizza, P. and Giacomazzi, V.
THE SOLIDIFICATION OF STEEL INGOTS UNDER
THE INFLUENCE OF A BASE COOLED BY WATER
RECYCLING. [1962] 11p. (12 figs. refs. omitted).
Order from SLA \$1.60 62-14425

I. Ravizza, P.
II. Giacomazzi, V.

Trans. of Revue de Métallurgie (France) 1961, v. 58,
no. 8, p. 655-[660].

DESCRIPTORS: *Steel castings, Crystal structure,
Liquid metals, *Cooling, *Water.

This work studies the development of isothermal
solidification surfaces under the cooling action of the
mold walls and the mold stool as well as the effect
proclaimed by the use of a stool cooled by circulating
water. This latter method accelerates solidification
beginning with the bottom of the ingot; improves the
crystalline structure; and reduces the total time of
solidification thereby avoiding the possible scaling off
(Metallurgy--Ferrous Metals, TT, v. 8, no. 2) (over)

h.c. 1

Office of Technical Services

62-10742

Cabane, M.
THE ROLLING OF CONTINUOUSLY CAST BILLETS
OF SPECIALITY STEELS. [1962] [12]p.
Order from SLA \$1.60 62-10742

Trans. of Revue de Metallurgie (France) 1961, v. 58
[no. 8] p. 661-665.

DESCRIPTORS: Steel, Casting, *Cast steel, Rolling
mills, *Steel castings, Production.

A major problem created by continuous casting is its
adaptation to existing steelplant processing equipment
and procedures. There appears to be no basis for ob-
jection to the use of continuously cast material in the
rolling operations. On the contrary, the use of con-
tinuous cast material makes possible the more effec-
tive and profitable usage of rough-shaping and sur-
face conditioning operations. The rolling operation is
also made easier by the use of continuously cast
mate: (Author)

I. Cabane, M.

(Metallurgy--Ferrous Metals,
TT, v. 8, no. 5)

Office of Technical Services

Recent developments in extrusion and drawing at
high Temperatures using glass as a lubricant, by J.
Sehournet.
FRENCH, per, Revue Metall, Dec , 1961, pp 107-1029
ACI \$2.10

Sci -
Sep 67

340,232

Study of the Structure and Properties of
Granular Interfaces by the Use of Oriented
Polycrystals of Pure Aluminum, by Claude Goux,
69 pp.

FRENCH, par, Revue de la Metallurgie, Vol LVIII,
No 9, 1961, pp 661-6676. 9667665

Navy/NRL Tr 911 (3264)

Sci M&M
Feb 63

223,595

The Principal Uses of Blast Furnaces Slag, by
G. Delbart.

FRENCH, per, Revue de Metallurgie, Vol LVIII,
No 11, Sep 1961, pp 723-734.

BISI 2615

Sci - Engr

May 62

196, 196

list 132

Contribution to the Study of Gas Flow
During Grate Sintering Operation,
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