

The Scaling Resistance of Steels Alloyed With
Vanadium, by H. Cornelius, W. Bungardt.

GERMAN, Archiv Eisenhüttenwesen, Vol XV, 1941.

Brutcher Tr 1269

\$2.35

Scientific - Minerals/Metals

17,019

Study of Carbon and Other Elements Diffusing in
Steel, by H. Cornelius.
GERMAN, per, Arch Eisenh, No 15, 1941, pp 145-152.
*NBS TT 70-57481

Sci-Mat
Aug 70

The Influence of Minerals on the Decomposition of
CO and Methane, by W. Baukloh, J. Hellbrügge.

GERMAN, per, Arch Eisenhüttenw., Vol XV, No 4, Oct
1941, pp 163-168.

ASLIB-GB34

Sci

Aug 59

94, 232

Effect of Clamping on the Fatigue Strength
of Carbon Steel, by H. Cornelius.

GERMAN, per, Archiv fuer das Eisenhüttenwesen,
Vol XIV, No 7, 1941, pp 335-340.

ASLIB-GB29

Sci

Aug 58

71,693

The Alternating Bending Strength in the Transverse
and Longitudinal Fibers of Forged Pieces
Consisting of Alloyed Steel, by Gunther Rössing,
Von Freiherr, 14 p.

GERMAN, per, Archiv für das Eisenhüttenwesen,
1942, Vol XV, No 9, pp 407-422.

SLA 59-20573

Sci
Apr 60
Vol III, No 2

113,598

Application of Results-Equilibria Investigations of Furnace Atmospheres to Bright Annealing and to Annealing Without Decarburization, by G. Neumann.

GERMAN, per, Arch Eisenhüttenw, Vol XIV, Mar 1941, pp 429-438.

ASLIB-GB95

Arch. E. - 414

Sci

Jul 59

92, 770

Use of an Equilibrium Investigation in a Furnace
Atmosphere and Problems of Non-Decarburizing and
Bright Annealing, by Gustav Neumann, 45 pp.

GERMAN, per, Arch Eisenhüttenw, Vol XIV, 1941,
pp 479-488.

AEC Tr 4046

118,899

Sci -
Jun 60

Rummel, K. and Veh, P.-O.
DISCUSSION OF THE LITERATURE, WORKING
HYPOTHESES, AND PRELIMINARY EXPERIMENTS
[AND] NEW EXPERIMENTS ON MODEL FLAMES,
DISCUSSION OF RESULTS. Pts. 1-2 on The Radia-
tion of Luminous Flames. Nov 41 [41]p. 33 refs.
Order from SLA \$4.60 61-18522

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1941, v. 14, Apr, p. 489-499 and May, p. 533-542.

DESCRIPTORS: *Flames, Physical properties,
Chemical properties, Heat transfer, Combustion,
Hydrocarbons, Pyrolysis, *Luminescence, Methanes,
*Thermal radiation.

(Unannounced)

61-18522

I. Rummel, K.
II. Veh, P.-O.
III. Title: New...
IV. Title: Radiation...

184085

Office of Technical Services

Wehrich, Robert and Schwarz, Walter.
RAPID PHOTOMETRIC DETERMINATION OF SILICON
IN STEELS (Photometrische Schnellbestimmung von
Silizium in Stählen). [1961] 6p. 10 refs.
Order from SLA \$1.10

61-18511

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1941, v. 14 [no. 10] p. 501-503.
Another translation is available from SLA ml\$1.80,
pl\$1.80 as 60-14409 [1941] [6]p.

DESCRIPTORS: *Silicon, *Steel, Determination,
Chemical analysis.

(Unannounced)

61-18511

I. Wehrich, R.
II. Schwarz, W.

184079

Office of Technical Services

Wallbaum, Hans Joachim.
THE SYSTEMS OF THE IRON METALS WITH
TITANIUM, ZIRCONIUM, NIOBIUM AND TANTALUM.
[1963] [13p] 24refs
Order from SLA \$1.60

TT-63-20833

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1961, v. 34, no. 10, p. 521-526. (Abstract available)

DESCRIPTORS: Metals, Alloys, *Iron compounds,
*Titanium compounds, *Zirconium compounds,
*Niobium compounds, *Tantalum compounds, Phase
studies.

The phase diagrams of the systems iron-titanium,
cobalt-titanium and nickel-titanium were completed by
thermal analysis and x-ray examinations. The systems
of manganese, iron, cobalt and nickel with the metals
zirconium, niobium and tantalum were also checked
(Metallurgy. TT. v. 11, no. 4) (over)

TT-63-20833

I. Wallbaum, H. J.

Office of Technical Services

Jellinghaus, Werner.
COLD-DEFORMED MANGANESE STEEL AS A NEW
MATERIAL FOR MAGNETS. Rept. no. 551 of the
Materials Committee of the Verein Deutscher
Eisenhüttenleute. [1961] 6p. 11 refs.
Order from SLA \$1.10

61-18509

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1941, v. 15, Aug., p. 99-102.

DESCRIPTORS: *Manganese steel, Deformation,
Magnets, Materials, *Martensite, Production, *Steel,
Forging, *Low temperature alloys.

(Unannounced)

61-18509

I. Jellinghaus, W.
II. Title: Verein...

184077

Office of Technical Services

Thanhelser, G. and Waterkamp, Maria.
STEEL ANALYSES BY DROP REACTIONS. [1961]
35p. 69 refs.
Order from SLA \$3.60 61-18510

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1941, v. 15, Sep, p. 129-144.

DESCRIPTORS: *Steel, *Chemical analysis, Test
methods, Nickel alloys, Chromium alloys, *Chemical
reagents.

(Unannounced)

61-18510

1. Title: Drop reactions
- I. Thanhelser, G.
- II. Waterkamp, M.

184078

Office of Technical Services

Significance of Yield for the Fatigue Strength of
High Tensile Steels, by A. Junger, 6 pp.

GERMAN, per, Arch Eisenhüttenwesen, Vol XV, 1941,
pp 201, 202. (Loan Copy Only).

SIA 57-2999

Sci

Aug 58

71,435

Decarburizing of Cast Iron in Carbon Monoxide-
Carbon Dioxide Mixtures, by W. Haukloh, U. Engelbert.

GERMAN, per, Archive Eisenhüttenwesen, Vol XV,
1941-1942, pp 247, 248.

Butcher Tr 1230

Scientific - Min/Metals

\$1.70

12,746

Bandel, Gerhard.

SPECIAL PHENOMENA IN CONNECTION WITH THE SCALING OF HEAT-RESISTANT STEELS AND ALLOYS. Rept. no. 566 of Werkstoffausschuss [Materials Committee] of the Verein Deutscher Eisenhüttenleute. [1961] 30p. (32 figs. omitted) 61 refs. Order from SLA \$2.60

61-20753

Trans. of Archiv für das Eisenhüttenwesen (Germany) 1941, v. 15 [no. 6] p. 271-283.

DESCRIPTORS: *Heat resistant alloys, *Steel, Iron, Oxides, Crystals, Growth, Coatings, *Scale.

(Metallurgy--Ferrous Metals, TT, v. 7, no. 6)

61-20753

I. Bandel, G.
II. Title: Verein ...

(Reverse Translation)
German to French
CIA-TT-A-1066
9007501

Office of Technical Services

Machu, Willi and Ungersböck, Oskar.
CATHODIC PICKLING IN THE PRESENCE OF
INHIBITORS. [1961] [11]p. (1 fig. omitted) 12 refs.
Order from SLA \$1.60 61-18507

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1942, v. 15, Jan, p. 301-306.

DESCRIPTORS: *Pickling, *Iron, Corrosion inhibition,
Iron alloys, Sulfuric acid, *Electrochemistry,
Hydrochloric acid, *Steel, Surface properties.

(Unannounced)

61-18507

I. Machu, W.
II. Ungersböck, O.

184075

Office of Technical Services

Precipitation Hardening and Creep Limit of Iron-Columbium Alloys and Columbium Alloyed Steels, by F. Wever and W. Peter, 25 pp.

GERMAN, per, Arch Eisenhüttenwesen, Vol XV, 1942, pp 357-361. (Loan Copy Only).

SLA 57-2996

Sci

71,448

Aug 58

Dannöhl, Walter.
MODIFICATIONS IN THE STATE AND THE PROPERTIES OF IRON-NICKEL-ALUMINIUM MAGNET ALLOYS DUE TO HEAT TREATMENT. Rept. no. 576 of the [Materials Committee] of the Verein Deutscher Eisenhüttenleute. [1961] [9]p. 34 refs.
Order from SLA \$1.60 61-18652

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1942, v. 15, Feb, p. 379-387.

DESCRIPTORS: *Iron alloys, *Nickel alloys, *Aluminum alloys, Heat treatment, Magnetic properties, Mechanical properties.

(Metallurgy, TT, v. 6, no. 8)

61-18652

I. Dannöhl, W.
II. Title: Verein...

195153

Office of Technical Services

Metallographic Studies of Steel With the Electron
Microscope, by H. Dennek, O. Rudiger, F. Stablein,
K. E. Volk.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XV,
1941-1942, pp 431-436.

Brutcher Tr 1951

12,686

Scientific - Min/Metals

Brittleness of Chromium-rich Steels at Temperatures
Around 930° F, by G. Bandel, W. Tofaute.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XV, No 7,
1942.

Brutcher Tr 1893

Scientific - Min/Metals

\$13.75

12,953

~~12,953~~

Wear Caused by Metal-Against-Metal Sliding
~~Experiments~~ Friction With Special Reference to the
Effect of Temperature, Part I, by W. Radeker,

BERMAN, per, Archiv f.d. Eisenhüttenwesen,
Vol XV, No 10, 1942, pp 453-460.

23,614

Brutcher Tr No 3460
\$ 9.85

Scientific - Min/Metals

May 55 CTS

Wear Caused by Metal-Against-Metal Sliding
Friction, With Special Consideration of the
Effect of Temperature, ~~Part~~ Pt. II, by
W. Radeker,

GERMAN, per, Archiv f.d. Eisenhüttenwesen,
Vol XV, No 10, 1942, pp 460-469.

24,645

Brutcher Tr 3461
\$9.65

Scientific - Min/Metals

Jun 55 CTS

Wellinger, K. and Kell, E.
THE REDUCTION OF STRESS IN STEEL BOLTS
UNDER LOAD AT HIGH TEMPERATURES. [1961]
[8]p. 2 refs.
Order from SLA \$1.10

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1942, v. 15, p. 475-478.

DESCRIPTORS: *Steel, *Bolts, *Stresses, Reduction,
*High temperature research.

61-18466

I. Wellinger, K.
II. Kell, E.

184052

(Unannounced)

Office of Technical Services

<p>Geller, Werner. THE REDUCTION OF SILICA BY LIQUID STEEL. [Mar 46] 24p. 36 refs. Order from SLA ml\$2. 70, ph\$4. 80</p> <p>Trans. of Archiv für das Eisenhüttenwesen (Germany) 1942, v. 15 [no. 11] p. 479-490.</p>	<p>60-18276</p> <ol style="list-style-type: none">1. Silicon dioxide--Reduction2. Steel--Melting <p>1. Geller, W.</p>
<p>142,779</p>	
<p>(Unannounced)</p>	<p>Office of Technical Services</p>

Krisch, Alfred.
THE CREEP STRENGTH OF STEEL AT ROOM
TEMPERATURE. Dec 43, 11p. 2 refs.
Order from SLA \$1.60

61-18464

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1942, v. 15, June, p.539-542.

DESCRIPTORS: *Steel, Temperature, Creep, *Heat
resistant alloys, *Austenite.

(Unannounced)

61-18464

I. Krisch, A.

184051

Office of Technical Services

Spot Tests for Cobalt, Nickel and Iron, by R. Wehr-
lich, and F. Schwertner.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVI,
1942.

Brutcher Tr 1438

Scientific - Min/Metals

\$3.50

13,025

~~13,025~~

Influence of Titanium Upon Creep Limit of Steel,
by P. Bardenheuer, W. A. Fischer

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVI,
1942.

Brutcher Tr 1454

Scientific - Min/Metals

\$6.75

12,864

Effect of Titanium Upon the Creep Limit of Steels,
by E. Houdremont, G. Bandel.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVI,
1942.

Brutcher Tr 1460

SLA 67-10278

Scientific - Min/Metals

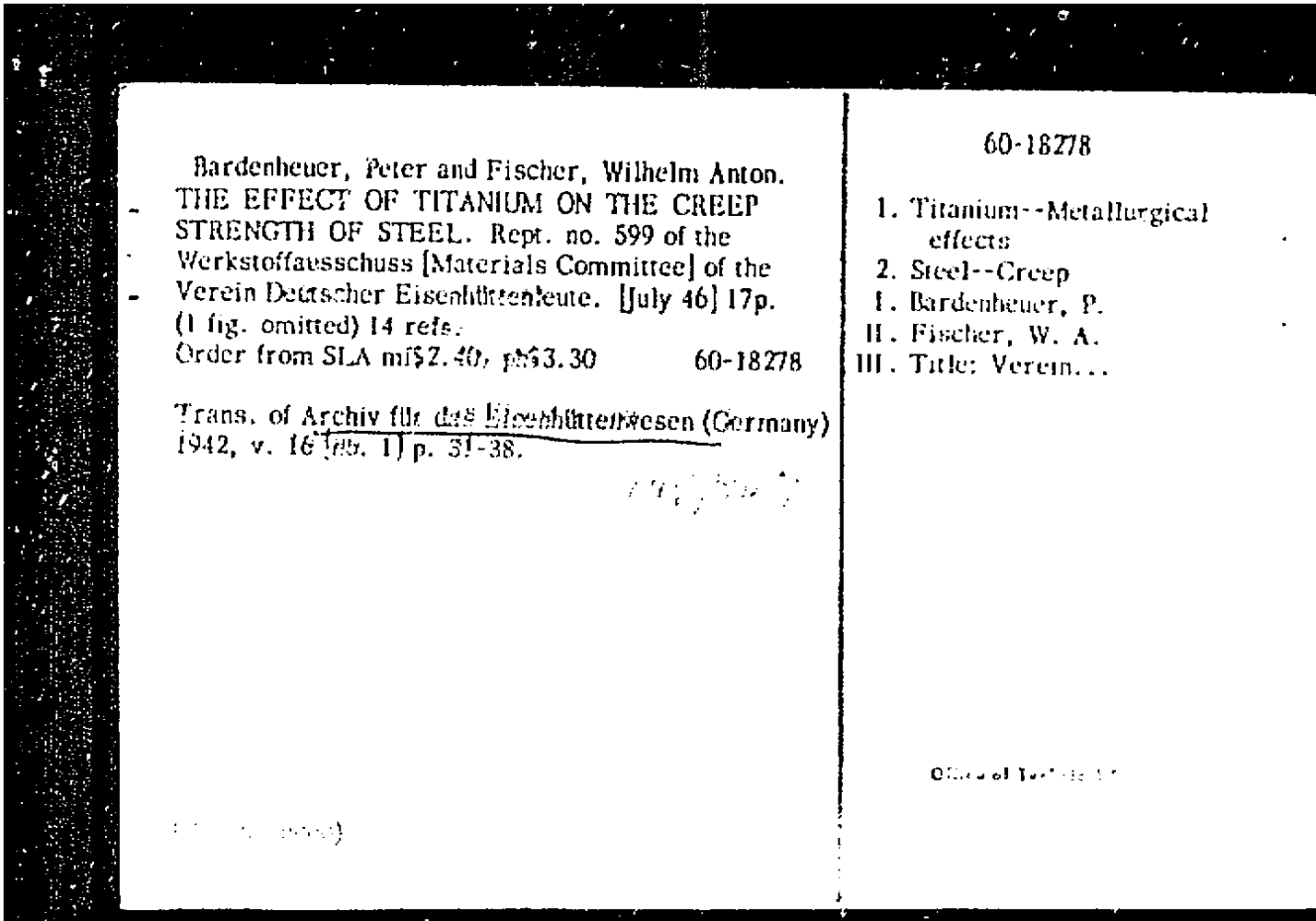
\$14.15

12,947

~~12,947~~

The Diffusion of C and P in Steel., by H. Cornelius.
GERMAN, per, Arch Eisenhüttenwesen, Vol 16, 1942,
pp 1-6.
*NBS TT 71-55281
Available NBS Only

July 71



Bardenheuer, Peter and Fischer, Wilhelm Anton.
THE EFFECT OF TITANIUM ON THE CREEP
STRENGTH OF STEEL. Rept. no. 599 of the
Werkstoffausschuss [Materials Committee] of the
Verein Deutscher Eisenhüttenleute. [July 46] 17p.
(1 fig. omitted) 14 refs.
Order from SLA mi\$2.40, ps\$3.30 60-18278

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1942, v. 16 (pt. 1) p. 31-38.

60-18278

- 1. Titanium--Metallurgical effects
- 2. Steel--Creep
- I. Bardenheuer, P.
- II. Fischer, W. A.
- III. Title: Verein...

Office of Technical Services

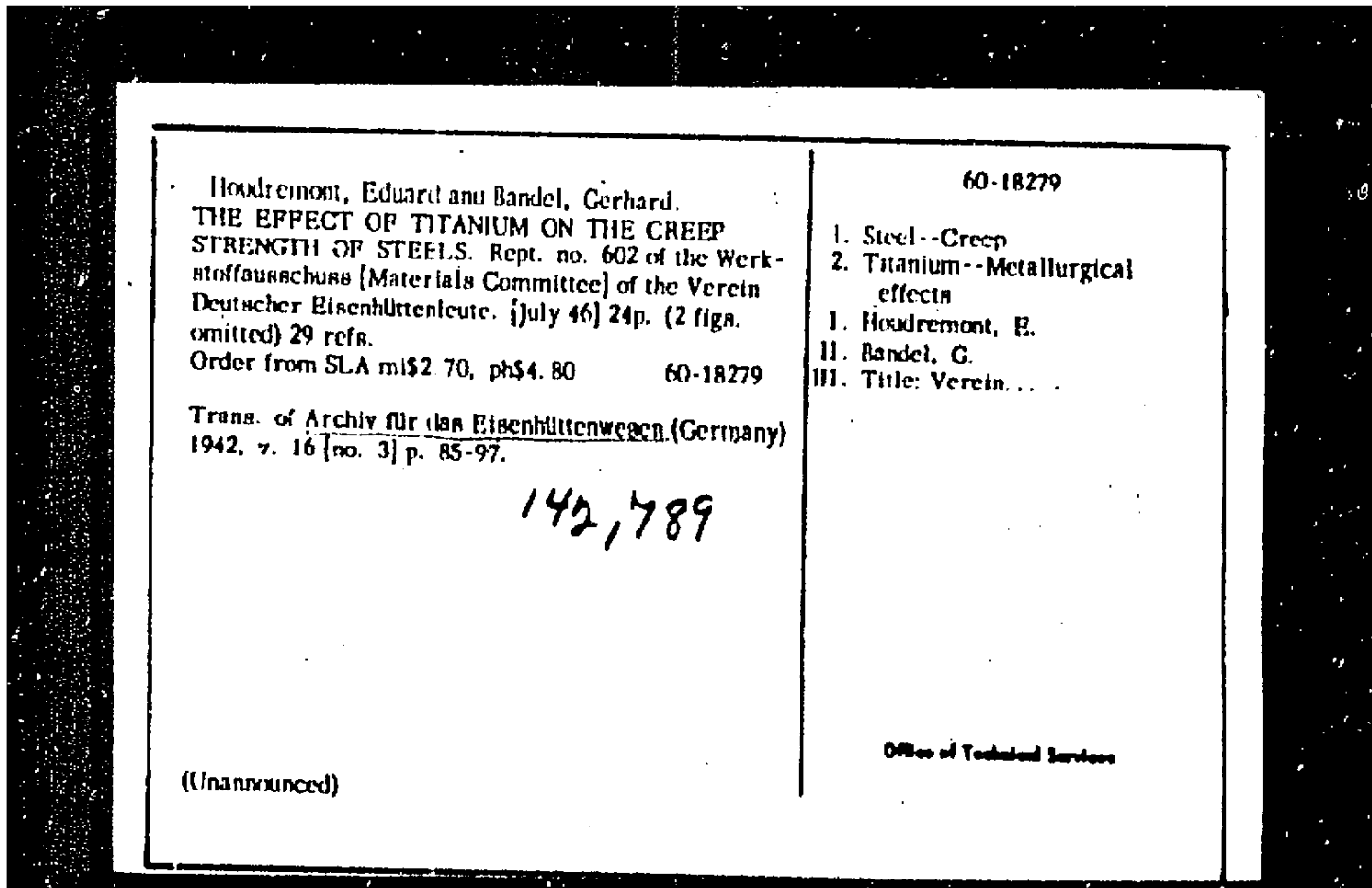
Metallographic Indication of Lead in Steel, by
K. B. Volk. UNCL

GERMAN, per, Arch Eisenhuettenen, Vol XVI, No 2,
1942, pp 81-84.

British Iron and Steel Ind
(no number given)

Min/
Sci - Met
Sep 59

98422



Houdremont, Eduard and Bandel, Gerhard.
THE EFFECT OF TITANIUM ON THE CREEP
STRENGTH OF STEELS. Rept. no. 602 of the Werk-
stoffausschuss (Materials Committee) of the Verein
Deutscher Eisenhüttenleute. (July 46) 24p. (2 figs.
omitted) 29 refs.
Order from SLA ml\$2 70, ph\$4. 80 60-18279

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1942, v. 16 [no. 3] p. 85-97.

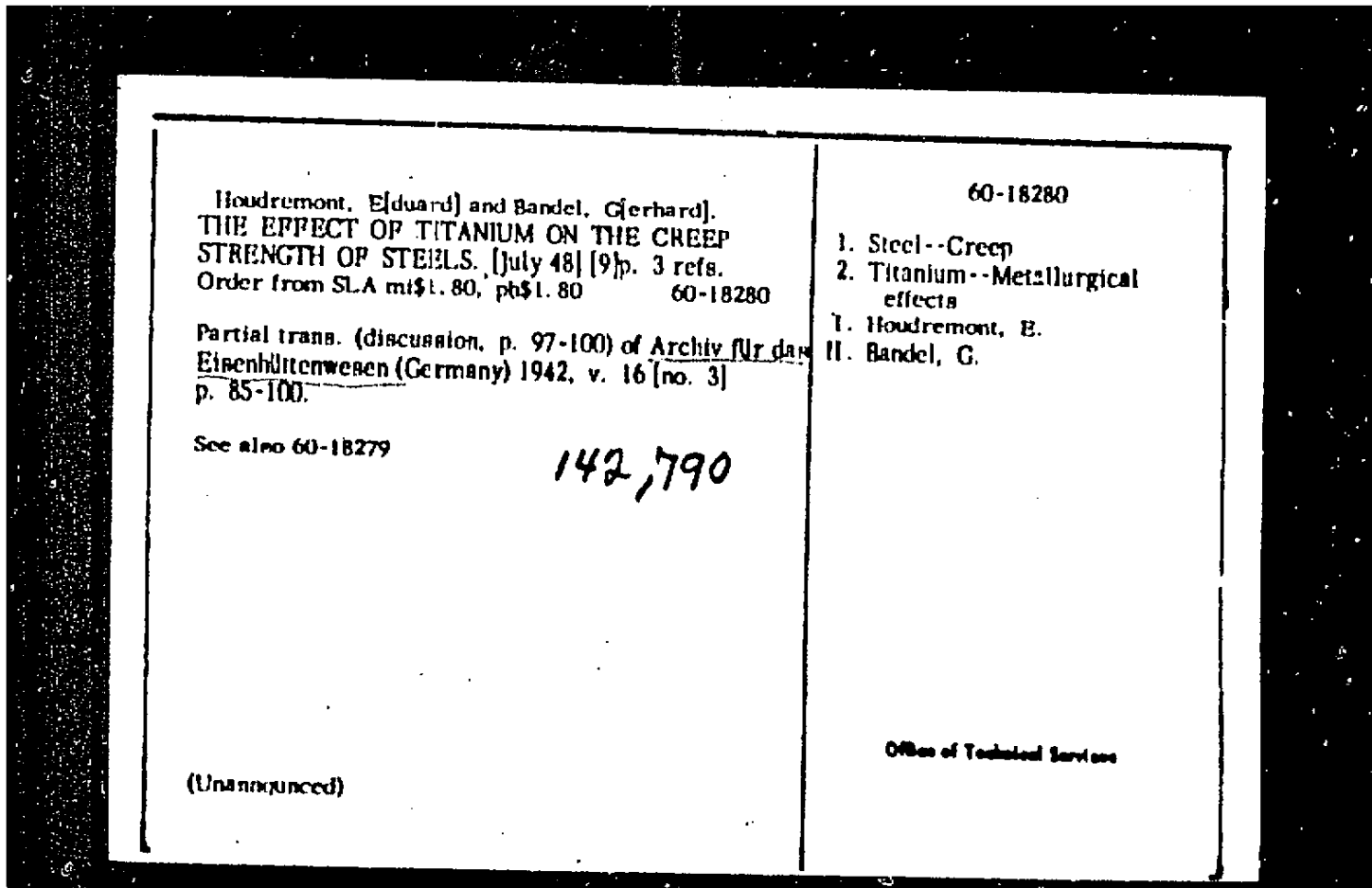
142,789

60-18279

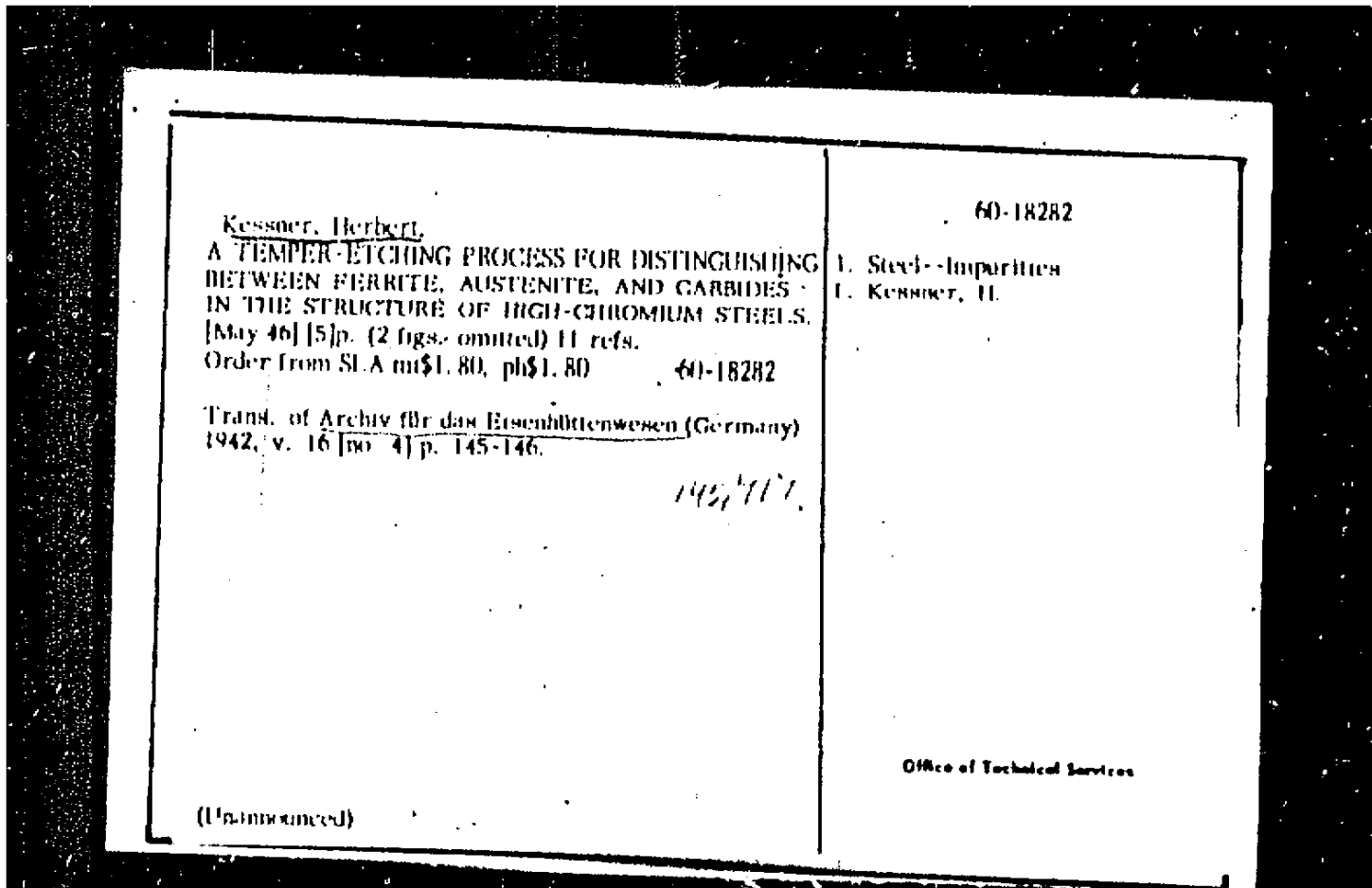
- 1. Steel--Creep
- 2. Titanium--Metallurgical effects
- 1. Houdremont, E.
- II. Bandel, G.
- III. Title: Verein...

(Unannounced)

Office of Technical Services



<p>Zumbusch, Wilhelm. PERMANENT MAGNETS OF IRON-NICKEL-COBALT- ALUMINIUM-COPPER(-TITANIUM) ALLOYS WITH PREFERRED MAGNETIC ORIENTATION. Rept. no. 603 of the Werkstoffausschuss [Materials Committee] of the Verein Deutscher Eisenhüttenleute. [June 46] 21p. 9 refs. Order from S.L.A mi\$2. 70. ph\$4. 80 60-18281</p> <p>Trans. of Archiv für das Eisenhüttenwesen (Germany) 1942, v. 16 [no. 3] p. 101-112.</p> <p style="text-align: center;">142,894</p> <p>(Unannounced)</p>	<p style="text-align: center;">60-18281</p> <ol style="list-style-type: none">1. Iron alloys--Magnetic properties2. Magnets--Materials <ol style="list-style-type: none">I. Zumbusch, W.II. Title: Verein... <p style="text-align: center;">Office of Technical Services</p>
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Influence of Temperature and Pressure Upon Carbon
Monoxide Decomposition and the Disintegrating Effect
of Carbon, by W. Baukloh, D. Edwin.

GERMAN, per, Archiv Fur Das Eisenhüttenwesen,
Vol XVI, No 6, 1942-1943, pp 197-200.

Brutcher Tr 1372

Scientific - Min/Metals

\$4.80

12,740

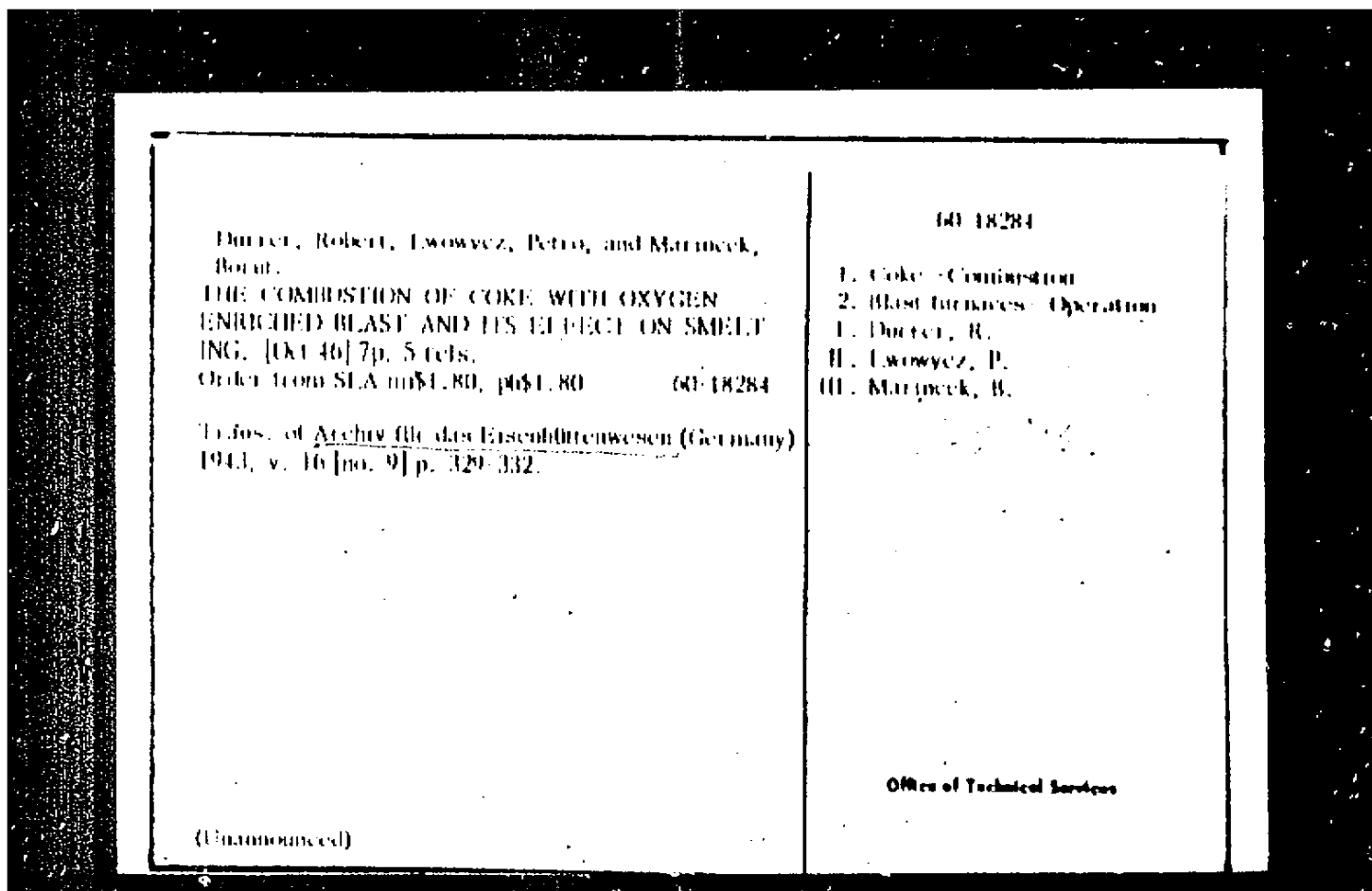
Alternate Stress Diagrams of Steels at
Higher Temperatures, by Max Hempel, Hermann
Krug, 24 p.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
1943, Vol XVI, No 7, pp 261-268.

ELA 60-10174

Sc1
Apr 60
Vol III, No 3

112,055



Dies, K.
THE INFLUENCE OF CARBIDE FORMERS ON THE
YIELD POINT OF STEEL AT ROOM TEMPER-
ATURE. [1961] [13]p. 27 refs.
Order from SLA \$1.60

61-18654

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1963, v. 16, no. 9, p. 333-340.

DESCRIPTORS: *Steel, Heat treatment, *Carbides,
Metallurgy.

(Metallurgy--Ferrous Metals, TT, v. 6, no. 8)

61-18654

L. Dies, K.

195154

Office of Technical Services

Baukloh, Walter, Schulte, Fritz, and Friederichs,
Hellmut.

A STUDY OF THE PROCESSES INVOLVED IN THE
MALLEABILISING OF UNALLOYED AND ALLOYED
CAST IRON IN CARBON-MONOXIDE/CARBON-
DIOXIDE MIXTURES. Rept. no. 618 of the Materials
Committee of the Verein Deutscher Eisenhüttenleute;
abridged version of Doctor's thesis Technische
Hochschule, Berlin. Dec 43. 32p. (1 fig. omitted)
18 refs.

Order from SLA. \$3.60

61-18457

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1943, v. 16, Mar, p. 341-354.

DESCRIPTORS: *Cast iron, Iron alloys, Carbon
dioxide, Carbon compounds, Monoxides, Mixtures,
Temperature, Diffusion, Metallurgy.

(Unannounced)

61-18457

- I. Baukloh, W.
- II. Schulte, F.
- III. Friederichs, H
- IV. Title: Verein...
- V. Technische Hochschule,
Berlin (Germany)
- VI. BISI-158

184048

Office of Technical Services

Baukloh, Walter and Foroud, A. K.
THE DECARBURISATION OF CAST IRON AND
MALLEABLE IRON IN HYDROGEN AND IN
MIXTURES OF HYDROGEN AND WATER VAPOUR.
Rept. no. 619 of the Materials Committee of the Verein
Deutscher Eisenhüttenleute; abridged version of
Doctor's thesis, Technische Hochschule, Berlin.
[Dec 43] 16p. (5 figs. omitted) 8 refs.
Order from SLA \$1.60

61-18461

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1943, v. 16, Mar., p. 355-362.

DESCRIPTORS: *Cast Iron, *Hydrogen, *Water vapor,
Manganese, Mixtures, Graphite, Carbon, Temperature.

(Unannounced)

61-18461

- I. Title: Decarburization
- I. Baukloh, W.
- II. Foroud, A. K.
- III. Title: Verein...
- IV. Technische Hochschule,
Berlin (Germany)

184049

Office of Technical Services

Pawlek, Franz.
IRON-SILICON ALLOYS OF HIGH INITIAL PERME-
ABILITY DUE TO SPECIAL METALLURGICAL
TREATMENT. Rept. no. 620 of the Materials
Committee of the Verein Deutscher Eisenhüttenleute.
[May 44] 9p. 6 refs.
Order from SLA \$1. 10

61-18514

Trans. of Archiv für das Eisenhüttenwesen (Germany)
1943, v. 16, Mar, p. 363-366.

DESCRIPTORS: *Iron alloys, *Silicon alloys,
Annealing, Permeability.

(Unannounced)

61-18514

- I. Pawlek, F.
- II. Title: Verein...

184080

Office of Technical Services

Photometric Method for Cobalt in Alloy Tool and High
Speed Steels in the Presence of Iron and Alloy
Metals., by G. Bogatskiy

GERMAN, ~~per~~, Archiv Eisenhüttenwesen, Vol XVII,
Nos. 5-6, 4-figures, ~~1500~~-words, 1943.

Butcher Tr Order No 1583
\$2.40

15,171

Scientific - Min/Max

Application of Perchloric Acid in the Determination
of Nitrogen in Iron and Steel, by H. Kempf, K. Abresch.

GERMAN, Archiv Eisenhüttenwesen, Vol XVII, No 5-6,
1943.

Butcher Tr No 1716

\$6.90

Scientific - Minerals/Metals 12,347

<p>Thom, August and Richard, Kurt. MULTI-SPECIMEN TESTING EQUIPMENT FOR LONG-TIME CREEP TESTS. [Feb 46] 11p. (1 fig. omitted) 12 refs. Order from SLA m\$2.40, p\$3.30 60-18283.</p>	<p>60-18283</p> <ol style="list-style-type: none">1. Alloys--Test methods2. Steel--Creep <p>I. Thom, A. II. Richard, K.</p>
<p>Trans. of <u>Archiv für das Eisenhüttenwesen</u> (Germany) 1943, v. 17, July/Aug, p. 29-33.</p>	<p>142,871</p>
<p>(Unannounced)</p>	<p>Office of Technical Services</p>

Influence of Different Alloy Additions upon
Properties of Chromium-Containing Permanent
Magnet Steels, by H. Krainer, F. Raidl, 21 pp.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVI,
No 7, 1943, pp 253-260. (loan copy only)

SLA 57-2809

Sci
Aug 58

70,898

Impact Test Bars for the Study of Steels at Sub-normal Temperatures, by H. Bennek.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVI, No 8, 1943.

Brutcher Tr 1681

12,691

Scientific - Min/Metals

\$1.20

Shock Losses and Resistance-Loss-Coefficients
of Pipe Lines and Conduits, by H. Euler

GERMAN, per, Archiv f das Wissenbutterwissen, No 11,
May 1943, pp 430-438.

TPA3/TIB T.1903

Scientific - Engineering
GIS/DER

5865

Influence of the Steel on the Service Life on
Gudgeon Pins, by E. Nickel, P. Sommer.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XVII,
1944, pp 227-234.

g
*BISIR 3087

Sci *Minipress*
Jan 65

The Gasification of Iron, by Ernst Justus
Kohlmeier, Hans Spandau, 31 pp.

GERMAN, per, Archiv fuer das Eisenhuettenwesen,
Vol XVIII, No 1/2, Jul/Aug 1944, pp 1-6.

Dept of Commerce
Patent Office
Sci Lib (gift)

Sci - Chemistry
May 60

116,893

Industrial Mechanism of Plastic Deformation, by
Erich, Siebel, 24 pp.

CHROMAN, per, Arch fuer das Eisenhuettenwesen,
Vol XVIII, No 1/2, 1944, pp 13-22.

SLA 59-15187

Sci
Nov 59
Vol 2, No 3

101,551

Strength Characteristics of Porous Sintered Iron,
by H. Unckel,

GERMAN, per, Arch Eisenhüttenw, Vol XVIII, 1944,
pp 125-130.

AEC Tr-4022

Sci - Chem

May 60

117,376

<p>Siebel, Erich and Hahn, Günter THE CREEP OF HEAT RESISTING STEELS AT TEMPERATURES OF 800 TO 1200°C. EXTRACT FROM G. HAHN'S THESIS FOR THE DEGREE OF A DOKTOR-INGENIEUR [tr. by D. G. Box, G.] Rept. no. 644 of the Verein Deutscher Eisenhüttenleute. [Jan 17] 18p. (4 figs. omitted) 50 refs. Order from SLA ml2 40, ps\$3.30 60-18682</p>	<p>60-18682</p> <ol style="list-style-type: none">1. Steel - Creep2. Heat resistant alloys - Creep1. Siebel, E.II. Hahn, G.III. Title - Verein ...
<p>Trans. of Archiv für das Eisenhüttenwesen (Germany) 1944, v. 17, Mar/Apr, p. 211-220.</p>	<p>142,858</p>
<p>(Unannounced)</p>	<p>Office of Technical Services</p>

Regrowth of Recrystallisation After Hot-Deformation,
With Special Reference to Deformation
in the α -Iron Region, by H. Kornfeld,
G. Hartleif.

GERMAN, per, Arch. Eisenh. Vol 17,
Mar/Apr 1944, pp 221-226.

BISI 4332

Sci/MGM
Sep 65

289,322

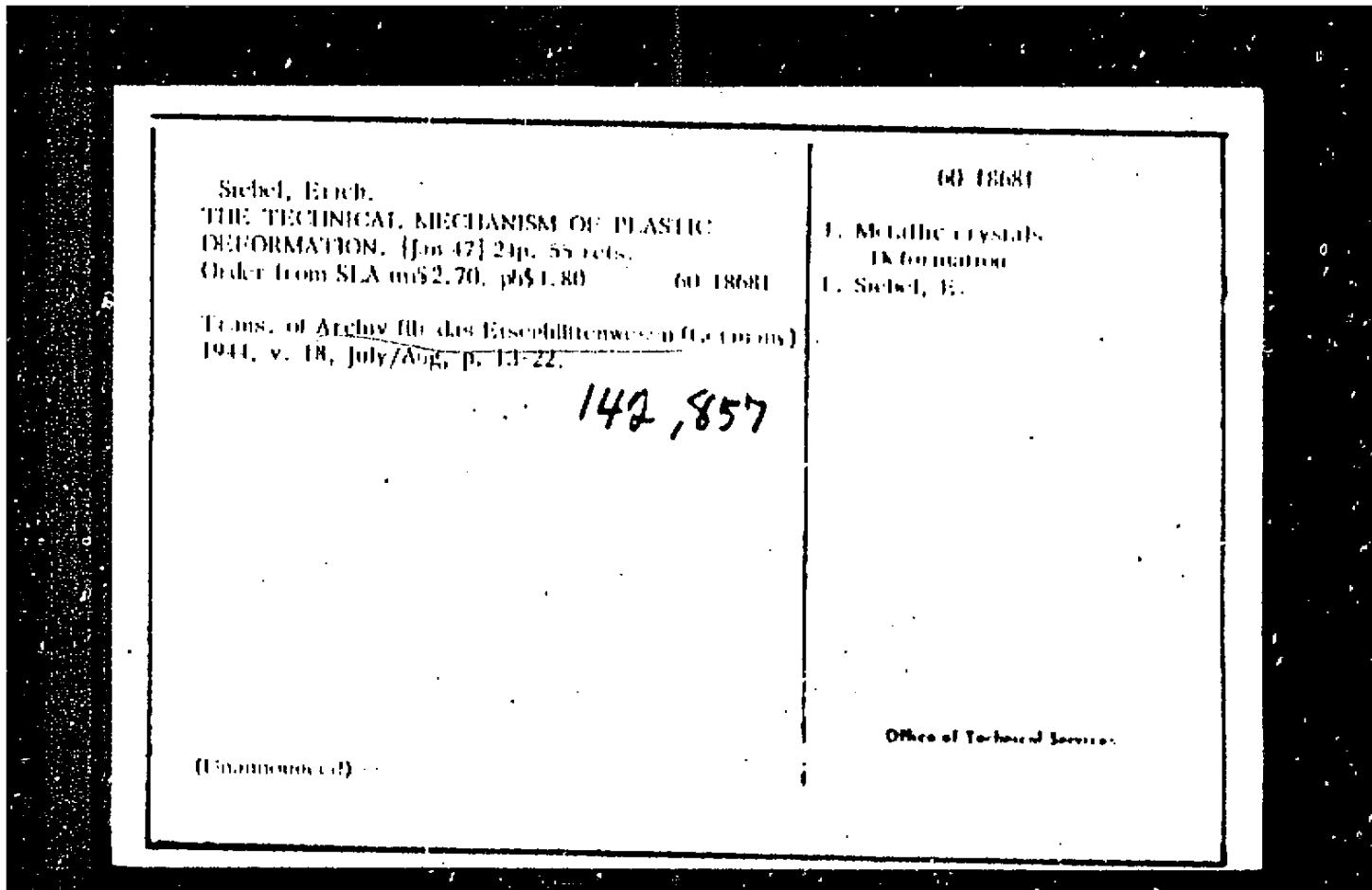
Influence of the Steel on the Service Life of
Gudgeon Pins, by E. Mickel, P. Sommer.

GERMAN, per, Archiv fuer Eisenhuettenwesen, II
Vol XVII, 1944, pp 227-234.

BISI 3087

Sci - M/M
Mar 63

226,640



Processes in Pressing Metallic Powders, by H. Unckel,
GERMAN, per, Arch Eisenhüttenw, Vol XVIII, 1945,
pp 161-167.

AEC Tr-4020

Sci - Chem

May 60

117, 375

Photometric Determination of Phosphorus, Chromium,
Nickel and Molybdenum in One Weighing, by M. Adelt,
G. A. Gruendler.

GERMAN, Archiv Eisenhüttenwesen, Vol 19, 1948.

Butcher Tr No 2157

\$5.95

Scientific - Minerals/Metals

12,353

Structure of Cemented Carbide Compositions, by
H. Franssen, 24 pp

GERMAN, DEU, Archiv Eisenhüttenwesen, Vol XIX,
1948, pp 79-84

FDD/X 1329
~~DEU Deutscher-Verlag~~

4104

Metals
Scientific - Min/~~MIN/XX~~

\$9.80

The Influence of the Elements on the Polymorphism of
Iron, by Willy Oelsen, Franz Wever, 18 pp.

GERMAN, per, Arch Eisenhüttenw, Vol ~~XV~~ XIX, 1948,
pp 97-104.

AEC Tr 2669

Sci - Min/Metals
Jan 57 CTS

42,167

the Metallurgy of the Basic Converter Process,
W. Celsen. H. Maetz.

MAN, per, Archiv fuer Eisenhuettenwesen, Vol XIX,
48, pp 111-117.

BISI 2292

1 - Min/Met

1 61

161,069

63-14375

Trümel, Gerhard and Gedschold, Hermann.
**THE PRODUCTION OF VANADIUM FROM SLAGS
RESULTING IN STEEL PRODUCTION** (Die Gewinnung
von Vanadin aus Schlacken, die bei der Stahlerzeugung
Anfallen). [1963] [23]p. (foreign text included) 12 refs.
Order from SLA \$2.60 63-14375

I. Trümel, G.
II. Gedschold, H.

Trans. of Archiv für das Eisenhüttenwesen (West
Germany) [1948] v. 19, p. 119-124.

DESCRIPTORS: *Vanadium, Production, *Slags, Steel,
Manganese, Spinel, Sodium compounds, Chlorine
compounds, Carbon compounds, Oxides, Manufacturing
methods.

After a brief survey on the industrial experiences in
the obtaining and processing of vanadium-containing
slags, experiments are reported on for determining
in the laboratory the conditions for as complete
obtaining of pure vanadium as possible. The constitution
(Metallurgy, TT, v. 10, no. 7) (over)

Office of Technical Services

The Ratio of Notched-Bar Impact Toughness Using
Various Specimens, by C. Bihlmaier.

GERMAN, per, Archiv fur das Eisenhüttenwesen, Vol XX,
No 1/2, 1949, pp 31-35.

D.S.I.R./12196/CT

Scientific - Engineering

DEX ONLY

12,169

The Determination of Spread in the Hot-Rolling
of Steel by Smooth Rolls, by Werner Lueg,
23 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XX, No 1/2, 1949, pp 59-68.

SLA 60-18285

Sci

Apr 61

146,136

Creep Tests of Some Unalloyed Basic Bessemer
Steels and High-Alloy, Heat-Resisting Steels
at 500 to 900°C, by A. Fomp, A. Krisch, 25 pp.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XX,
No 3, 4, 1949, pp 125-134. (loan copy only)

SLA 57-2617

Sci
Aug 58

~~SECRET~~
A6213

Hoff, H. and Dunk, G. von der.
TESTING THE UNIFORMITY OF ZINC COATINGS
ON STEEL WIRE BY DIPPING IN CuSO_4 SOLU-
TIONS. [1962] 7p. (figs. refs. omitted).
Order from SLA \$1.10

62-16958

Trans. of Arch[iv] f[ür] d[as] Eisenhüttenwesen
(West Germany) 1949 [v. 20, no. 3/4] p. 135-138.

DESCRIPTORS: *Zinc coatings, *Steel wire, Process-
ing, Solutions, Copper compounds, Sulfur compounds,
Oxides.

(Metallurgy, TT, v. 8, no. 9)

62-16958

I. Hoff, H.
II. Dunk, G. von der

Office of Technical Services

Dipper, M.
CALCULATION AND STUDY OF IMPACT EXTRU-
SION OF SHELLS. [1962] 18p. (24 figs. 11 tables
31 formulae refs. omitted).
Available on loan from SLA

62-16948

Trans. of Archiv für das Eisenhüttenwesen (West
Germany) 1949, v. 20, no. 9/10, p. 275-286.

DESCRIPTORS: *Cylindrical bodies, *Extrusion,
Impact shock, Deformation, Plastic flow, Hardening,
Statics.

(Machinery--Manufacturing, TT, v. 8, no. 5)

62-16948

I. Dipper, M.

Office of Technical Services

Fundamentals of Flow in Industrial Furnaces, by
Michael Hansen, 20 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XX, No 11/12, 1949, pp 337-344.

SLA 60-18286

Sci

Apr 61

146,130

Supersonic Frequency Generator for Non-Destructive
Material Testing, by H. and J. Krautkramer, O. Rudiger.

GERMAN, Arch Eiserhüttenw, Vol XX, No 11/12, Nov/
Dec 1949, pp 355-358.

TPA3/TIB Trans T 3933
P22317T

EDur - Germany
Scientific - Electronics, generator, frequency,
supersonic, testing

Index Aeronauticus

George Brantley Collier
No 2879

Wentrup, Hanns and Reff, Otto.
ON THE SOLUBILITY OF NITROGEN IN MOLTEN
IRON WITH CHROMIUM, MANGANESE AND NICKEL
ADDITIONS. [1963] [17]p. 6 refs.
Order from SLA \$1.60

63-16837

Trans. of Archiv für das Eisenhüttenwesen
(West Germany) 1949, v. 20 [no. 11/12]
p. 359-363.

DESCRIPTORS: Additives, *Nickel alloys, *Manganese
alloys, *Chromium alloys, *Iron alloys, Liquid metals,
*Nitrogen, Solubility, High temperature research,
Oxygen.

The receptivity of iron-chromium, iron-manganese,
iron-nickel, iron-chromium-manganese, and iron-
chromium-nickel melts for nitrogen was investigated
at 1600°C and sometimes also at 1700°C, and at the
solidification point. Chromium and manganese
(Metallurgy, TT, v. 10, no. 9) (over)

63-16837

I. Wentrup, H.
II. Reff, O.

Office of Technical Services

The Effect of Welding Defects on Tensile
Endurance Limit in ST 37 Steel Specimens, 16 p.
by M. Hempel, H. Moller
GERMAN, per, Arch Eisenhüttenw., 1949, Vol XX,
No 11/12, pp 375-383.

ATS-01L340

HTS-489-35

Sci
Mar 60
Vol 2, No 11

109,603

Embrittlement of Hardened Steel on Tempering
Between 250 - 400°, by H. Schrader.
GERMAN, per, Arch Eisenh, Vol 21, Jan/Feb
1950, pp 21-31.
BISI 5062

314,504

Sci - Mechanical, Industrial,
Civil, and Marine Engineering
Dec 66

A Contribution to the Metallurgy of the Blast-
Furnace, by Theo Kootz, Willy Olsen, 24 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XXI, No 3/4, 1950, pp 77-88.

SLA 60-18628

Sci

Apr 61

146,110

Creep of Steel at Room Temperature under
Static Load, by W. Janiche, G. Thiel, 4 pp.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXI,
1950, pp 105-118. (loan copy only)

SLA 57-2620

Sci
Aug 58

70,896

Kralner, Helmut.

INVESTIGATIONS ON TITANIUM CARBIDE AND
TITANIUM CARBIDE-CONTAINING HARD METAL
ALLOYS. Pt. 2 of Physical Investigations on Hard
Metal Alloys. [1961] [17]p. 62 refs.
Order from SLA \$1.60

62-10453

Trans. of Archiv fur das Eisenhüttenwesen (West
Germany) 1950, v. 21, no. 3/4, p. 123-127.

DESCRIPTORS: *Titanium compounds, *Carbides,
Metals, Alloys, X-rays, Sintered alloys, Met-
allurgical analysis, Graphite, Lattices, Production,
Quality control, Sintering, Grains (Metallurgy).

(Metallurgy--Structural, TT, v. 7, no. 8)

62-10453

I. Kralner, H.
II. Title: Physical. . .

Office of Technical Services

Fink, Kurt.

A DYNAMIC CALIBRATION OF WIRE STRAIN GAGES
(Eine Dynamische Eichung von Dehnungsmessstreifen).

[1963] [16p] (foreign text included) 14refs

Order from SLA \$1.60

TT-63-20490

Trans. of Archiv für das Eisenhüttenwesen (West
Germany) 1950, v. 21, no. 3/4, p. 137-142 (Max Planck
Institut für Eisenforschung (West Germany)). Communi-
cation-510. (Abstract available)

DESCRIPTORS: *Strain gages, Calibration, Oscillo-
graphs, Shock waves, Wire, Amplifiers.

Shock waves produced by impact in a cylindrical steel
bar were photographed with elongation strip charts, a
tube amplifier and an electron beam oscillograph. Com-
parison of the measured shock wave path with the com-
puted one shows satisfactory agreement within measur-
ing accuracy. Consequently, the elongation strip chart
(Engineering--Electrical, TT, v. 11, no. 2) (over)

TT-63-20490

I. Fink, K.

II. Max ... Communication-510

Office of Technical Services

The Transformation Kinetics of Steels; the
Composition of the Reactants During the
Transformation of a Chromium-Manganese Steel in
the Pearlite Range, by Franz Wever, Walter Koch,
16 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XXI, No 5/6, 1950, pp 143-152.

SLA 60-18629

Sci

Apr 61

146,165

Transformation Processes as Cause of Cracking in Deep
Carburized Steel Parts, by F. Brühl, H. J. Wiester.

Gokman

~~RUSSIAN~~, per, Archiv Fur Das Eisenhüttenwesen,
Vol XXI, 1950, pp 159-163.

Brutcher Tr No 2554

16,676

Scientific - Min/Metals

\$5.85

The Behavior of Steel ST 37 in the Time
Strength Range, by E. Gerold, K. Trachte,
11 pp.

GERMAN, per, Archiv fuer das Eisenhuettenwesen,
Vol XXI, No 5/6, May/June 1950, pp 175-179.

S.L.A.

Scientific - Minerals/Metals
CTS 70/Jul 55

25,182

The Influence of Alternating and Impact-Life Overloads Upon the Life of Steel Under Alternating Bending Loading, by A. Drozd, E. Gerold, E. H. Schulz, 16 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen, Vol XXI, No 5-6, May-Jun 1950, pp 181-185.

S.L.A.

Scientific - Minerals/Metals CTS 68/May 55

22,882

The Development of the Slurry-Settling Process
and its Significance in the Processing of Iron
Ores, by Ernst Bierbrauer, 40pp.

GERMANY, per, Archiv für das Eisenhüttenwesen,
Vol XXI, 1950, pp 273-282.

S.L.A. Tr 45

32,740

EEur - Germany
Scientific - Minerals/Metals

Influence of Alloy Addition on Diffusion of H
in Fe and Contribution of the System Fe-H, by
W. Geller.
GERMAN, per, Arch Eisenh. No 21, 1950, pp 423-30.
*NBS TT 70-57429

Sci-Mat
Aug 70

Optical Temperature Measurements of Luminous Flames
by Gerhard Kaeser, & Werner Pepperhoff, 18 pp.

GERMAN, per, Arch fuer Eisenhuettenwesen, Vol XXII,
No 1/2, 1951, pp 9-14.

SLA 59-10339

Sci - Chem
Sep 59
Vol 2, No 1

97,285

Soaking Process and Accelerated Life-Testing
of Heating-Element Alloys, by H. Krainer, J.
Kottelnik, C. Garius. DDCI.

OSWEGAN, per, Arch Eisenhüttenwesen, Vol XXII,
Mar/Apr 1951, pp 103-110.

British Iron and Steel Ind
(no number given)

Doc - Min/Max
Box 59

98, 231

Patenting and Drawing Experiments on Austenitic
Coarse- and Fine-Grained Steel Wires and the
Influence of Small Contents of Carbide-Forming
Alloy Elements, by Werner Papsdorf, 23 pp.

GERMAN, per, Archiv fur das Eisenhuettenwesen,
Vol XXII, No 3/4, 1951, pp 87-98.

SLA 60-18630

Sci

Apr 61

146,112

Qualitative Analysis of Alloy Steels -- Detection
of Vanadium, Tungsten, Molybdenum, Chromium, and
Manganese, by C. Beermann, H. Hartmann.

GERMAN, per, Archiv für das Eisenhüttenwesen,
Vol XXII, Nos 5, 6, 1951, p 159.

Brutcher Tr 2770

Scientific - Min/Metals

\$2.60

12,714

Contribution to the Theory and Practice of
Pressing Powdered Materials, by C. Ballhausen,

GERMAN, per, Archiv f.d. Eisenhüttenwesen,
Vol XXII, No 5-6, 1971, pp 185-196.

23,159

Brutcher Tr No 3393
\$12.85

Scientific - Min/Metals

Apr
~~Mar~~ 55 CTS

A Contribution to the Mechanics of Industrial
Deep Drawing, by H. Kostron

GERMAN, *per*, Arch Eisenhüttenw, Vol XXII, No 7/8,
Jul/Aug 1951, pp. 205-213.

OTC 10-16959
TPA3/TIB T 4112

Scientific - Minerals/Metals
CPS/DEX

8196

Investigation of a New Process of Hot Deep
Drawing, by D. Lenz,

GERMAN, per, Arch. Eisenhüttenw., Vol XXII,
No 7/8, 1951, pp 215-224.

Aluminium Lab, LTD.

B-TM-150-54

OT/1113

21,827

Scientific - Min/Metals

Mar 55 CTS

The Mathematics of Tensile Strengths, by H. Kostron.

Full translation.

GERMAN, Arch Eisenhüttenw, Vol 22, No 9/10,
pp 317-325, Sep/Oct 1951.

TPA3/TIB Tr No T 3950

Scientific - Engineering

Index Aeronautics, March 1953

*also from Section
No 271*

Room Temperature Creep Tests on Steel Wire, by
A. Krisch.

GERMAN, per, Archiv Eisenhüttenwesen, Vol. XXII,
No 9/10, 1951, pp 313-316.

Brutcher No 3361
\$4.90

Sci - Min/metals

40,654

Radio Tracer Technique as Applied to Investigation
of the Metallurgical Processes in a 50-Ton Open-
Hearth Furnace, by W. Koch and K. Fink.

GERMAN, Archiv Fur Das Eisenhüttenwesen, Vol 22,
1951, No 11-12, pp 371-375.

Brutcher Tech Tr No 2932

A Contribution ~~EM~~ To the Question of Endurance
Strength With Varying Sample Size, by N. Hempel

Full translation.

GERMAN, Arch Eisenhüttenw, Vol 22, No 11/12, pp
425-436, 1951.

TPA3/TIB Tr No T 4016

Scientific - Engineering

Index Aeronautics, March 1953

The Acid Smelting of Iron Ores Containing
Manganese for Obtaining Artificial Manganese
Ores and Their Smelting to Ferromanganese,
by P. Ischebeck, J. Willems.

GERMAN, per, Arch Eisenhüttenw. Vol XXIII,
No 1/2, 1952, pp 1-15.

TPA3/TIB T4492

Sci - Minerals/Metals SLA 57-1764
30,065

Calcium Phosphate Melting Crucibles on the
Metallurgy of the Basic Bessemer Process, by
Gerhard Froemel, Willy Oelsen, 8 pp. UNCL

GERMAN, per, Arch fuer das Eisenhuettenwesen, Vol
XXIII, 1952, pp 17-20. CIA 9038744

British Iron and Steel Ind 444

Sci - Min/Mat; Chem
Apr 59

86,720

V
Contribution to the Rapid Determination of Copper
in Steel by W. Koch and K. Behrens.

GERMAN, ~~DEE~~, Archiv fur das Eisenhuettenwesen,
Vol XXIII, No 1/2, 1952, pp 35-36.

Bratcher Tr No 2864

Scientific - Min/Metals

13,974

Photometric Determination of Copper in Pig Iron and
Carbon Steel, by W. Wers and A. Heuberger.

BERMAN, Archiv Fur Das Eisenhüttenwesen, Vol 23, 1952,
No 1-2, pp 37-38.

Butcher Tech Tr No 2865

APPROVED FOR RELEASE: 2005/08/09 CIA-RDP91-00403R000200730059-1

Study of the Most Suitable Chemical Composition of
4% Cr, 2% Co, 0.5% W Permanent Magnet Steel by
W. Knorr

GERMAN, Archiv Fur Das Eisenhüttenwesen, Vol 23,
1952, No 1-2, pp 53-55.

Brutcher Tech Tr No 2855

APPROVED FOR RELEASE: 2005/08/09 CIA-RDP91-00403R000200730059-1

Nondestructive Ultrasonic Testing by the Pulse-Echo Technique, by A. Lutsch

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIII, No 1-2, 1952, pp 57-65.

Butcher Order No 3070
Price \$12.20

Scientific - Minerals/Metals

Jun 53 CTS

2244

Mechanical Properties of Low-Alloy Heat-Treating Steels Improved by Proper Adjustment of Heat-Treating Temperatures and Times, by W. Eilender, H. Arend, W. Neuhaus.

GERMAN, Archiv Fur Das Eisenhüttenwesen, Vol XXIII, 1952, No 1-2, pp 67-72.

Brutcher Tech Tr 2881

~~RESEARCH~~
Scientific - Minerals/Metals

12,343