

PETUKHOV, S.P., SMOL'YANINOVA, N.K.; SPIRINA, A.S.; SINITSYNA, N.S., red.;
BYKOVA, M.G., red.; TRUKHINA, O.N., tekhn. red.

[Growing berry nursery stock] Vyrashchivanie posadochnogo mate-
rial'a iagodnykh kul'tur. Moskva, Sel'khozizdat, 1962. 206 p.
(MIRA 16:2)
(Berries) (Nursery stock)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2

СОЛДАТ И. В. Н.

"Investigating Middle-Temperature Coking of Gas Cools of the Kuznets Basin."
Grad Tech Sci, Tula Polytechnic Inst, Tula, 1954. (RZhKhim, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (13)
Sov. Sum. No. 523, 29 Jul 55

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2"

Scientific literature

AUTHORS: Ebler, I.V., Dr. of Tech.Sc. and Smol'yaninova, N.M.,¹⁵⁸ Cand. Tech. Sc. (Tomsk Polytechnical Institute of S. M. Kirov).

TITLE: The influence of heating temperature on coking properties of some coals from the Kuznetsk Basin. (Vliyaniye temperatury nagreva na spekayushchiye svoystva nekotorykh ugley Kuznetskogo Basseyna).

PERIODICAL: "Koks i Khimiya" (Coke and Chemistry), 1957, No.3, pp. 21-24 (U.S.S.R.)

ABSTRACT: An investigation of the influence of the temperature to which coals were heated on their coking properties (Table 1) was carried out. For the evaluation of coking properties the method of I. V. Gebler (Koks i Khimiya, 1939, Nos. 1 and 2) was used. This is based on the amount of sand bound by softened coal penetrating into the spaces between the sand grains under the pressure of a load. The amount of sand so bound in grams multiplied by 100 gives the "softening number". The dependence of the softening numbers on temperature for various coals and coal blends is given on the graph in the form of curves. The slope of the curve before reaching the maximum is considered as representing the thermal stability of the coal mass while that after the maximum as representing the thermal stability of the

GEBLER, I.V., prof.; SMOLEVANINA, N.M., kand. tekhn. nauk;
LIVSHITS, D.L., red.

[The problem of metallurgical fuel for the metallurgy of
Tomsk Province iron ores] Problema metallurgicheskogo
topliva dlia ispol'zovaniia zheleznykh rud Tomskoi oblasti.
Tomsk, Izd-vo Tomskogo univ. 1959. 14 p. (MIRA 16:10)
(Tomsk Province--Iron ores) (Fuel)

SMOL'YANINOVA, N.M.; GEBLER, I.V.

Medium-temperature coking of gas coal from the Kuznetsk Basin.
Izv. Sib. otd. AN SSSR no. 4:29-77 '59. (MIRA 12:10)

1. Tomskiy politekhnicheskiy institut im. S.M.Kirova.
(Coke)

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SMOL'YANINOVA, N.M.; KAPLIN, A.A.; VASIL'YEVA, L.M.

Stability of coke in the hot state. Koks i khim. no. 5:25-28 '61.
(MIRA 14:4)

1. Tomskiy politekhnicheskiy institut (for Smol'yaninova, Kaplin).
2. Sibirskoye otdeleniya AN SSSR (for Vasil'yeva).
(Coke--Thermal properties)

SHUB' ALIEVA, I....; KO MIKOV, Ya.S.

Effect of the temperature and velocity of heat carriers on the initial drying of molasses peat. Izv.T.i 111.91-64 '64.

(MIA 16:6)

1. Представлено проф. доктором И.В. Григорьевым.
(Peat--Drying) (Heat--Transmission)

SMOLYANINOV, N.Y., SUTIN, V.I.

Effect of the temperature of thermal processing of gas coals on
the yield and composition of lower phenols. Izv. TPI 126:15-20
'64. (MIRA 18:7)

SHOK YANNOVA, N.N.

Bertrandite from the granite massive of Kouradskii, Central Kazakhstan. F. V. Chukhrov and N. N. Smol'yaninova. *Doklady Akad. Nauk S.S.R.* 107, 578-580 (1956). Previously, bertrandite (I) was known in the U.S.S.R. from the aquamarine deposits of the Irkutka-Tigeretsk Mts., Altai, Siberia. The occurrence of the Kazakhstan steppes is remarkable because of high-temp. quartz veins in greisen granites which contain I associated with muscovite, K feldspar, pyrite, chalcopyrite, sphalerite, fluorite, magnetite, beryl, wolframite, molybdenite, and gilbertite. I is never abundant, although wide-spread, in the rocks. The colorless, water-clear crystals of rarely more than 1 mm. in diam. are highly brittle, with excellent cleavage in 2 perpendicular planes; biaxial, neg.; $\alpha = 1.588$; $\gamma = 1.615$; d. 2,600. Four crystal habits are described. I is probably formed in the ultimate stages of the quartz veins, but before fluorite and gilbertite, although after wolframite and muscovite. I is slightly changed into a hydrous Ca-contg. mineral of unknown compn. No indication is observed that I was formed by weathering from beryl.

W. Eitel

SMOL'YANINOVA, N.N.; MOLEVA, V.A.

Phenacite from Batystau deposits (Central Kazakhstan). Dokl.
AN SSSR 112 no.4:749-752 F '57. (MLRA 10:4)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii
i geokhimii. Predstavлено akademikom D.I.Shcherbakovym.
(Kazakhstan--Phenacite)

SMOL'YANOVA, N.N.; SAVDNOVA, V.M.

Arseniosiderite from southern Kirghizia. Trudy Min. muz.
no.14:250-258 '63. (MIRA 16:10)

(Kirghizistan---Arseniosiderite)

SMOL'YANINOVA, N.N.; SENDEROVA, V.M.

Find of chillagite in the Akchatau deposit. Zap. Vses.
min. ob-va 92 no.5:588-594 '63. (MIRA 17:1)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimii (IGEM) AN SSSR, Moskva.

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CIA-RDP86-00513R001651720016-2

SWEDEN, M.M.

Some of a research report on lead and the formation of barrobandite
on zinc galvanizes. Tilly Mine Co., Inc. 1974. 165.

(MIRA 36:6)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2"

ALYAVDIN, V.F.; BONSHTEDT-KUPLETSKAYA, E.M.; GODLEVSKIY, M.N., doktor geol.-mineral.nauk; KOMKOV, A.I.; KUKHARENKO A.A.. prof.; SAL'DAU, E.P.; SMOL'YANINOVA, N.N.; BORNEMAN-STARYNKEVICH, I.D.; TATARSKIY, V.B., prof.; FRANK-KAMENETSKIY, V.A.

From the Commission on New Minerals of the Mineralogical Society of the U.S.S.R. Zap.Vses.min.ob-va 94 no.5:555-565 '65. (MIRA 18:11)

1. Komissiya po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva. 2. Predsedatel' Komissii po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva (for Frank-Kamenetskiy). 3. Zamestitel' predsedatelya Komissii po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva (for Bonshtedt-Kupletskaya). 4. Sekretar' Komissii po novym mineralam Vsesoyuznogo mineralogicheskogo obshchestva (for Sal'dau).

SMOL'YANINOVA, N.N., mladshiy nauchnyy sotrudnik

Swedish fly in Khakassia. Zashch. rast. ct vred. i bol. 4 no.2:
24-25 Mr.-Ap '59. (MIRA 16:5)
(Khakass Autonomous Province—Frit flies)

SMOL'YANINOVA, N.S., PYL'TSOV, I.M., KLEMENOVA, Ye.S.

Congenital diaphragmatic hernia of the anterior mediastinum simulating epileptoid seizures. Vest.khir. 80 no.4:114-115 Ap'58 (MIRA 11:5)

1. Iz 2-go khirurgicheskogo otdeleniya (zav. - prof. G.V. Alipov) i rentgenovskogo otdeleniya (zav. - prof. P.N. Mazayev) Instituta khirurgii im. A.V. Vishnevskogo AMN SSSR. Adres avtorov: Moskva, B. Serpukhovskaya, d.27, Institut khirurgii im. A.V. Vishnevskogo AMN SSSR.

(HERNIA, DIAPHRAGMATIC, inf.& child
congen., simulating epilepsy (Rus))
(EPILEPSY, differ, diag.
congen. diaphragmatic hernia (Rus))

SMOL'YANINOVA, N. S. Cand Med Sci -- (diss) "X-ray picture of changes in the gastrointestinal tract following the removal of a lung or part of it (Clinical and experimental studies)." Mos, 1959. 15 pp (Acad Med Sci USSR), 200 copies (KL, 43-59, 128)

-93-

SMOL'YANINOVA, N.S.; ITKIN, S.I.

Anatomic and functional changes in the gastrointestinal tract
following total or partial resection of the lung; experimental
study. Grud. khir. 2 no.3:73-74 My-Je '60. (MIRA 15:3)

1. Iz rentgenovskogo otdoleniya (zav. - prof. P.N. Mazayev)
Instituta khirurgii imeni A.V. Vishnevskogo (dir. - deystvitel'nyy
chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR. Adres avtorov:
Moskva, B. Serpukhovskaya ul., d.27, Institut khirurgii imeni
A.V. Vishnevskogo.

(ALIMENTARY CANAL) (LUNGS--SURGERY)

SMOL'YANINOVA, N.S.; LOKSHINA, K.A.

X-ray observations of the motor evacuatory function of the stomach
following reconstructive plastic operations. Klin.khir. no.8:16-
18 Jl '62. (MIRA 15:11)

1. Rentgenologicheskoye otdeleniye (zav. - prof. P.N. Mazayev) i
tret'ye khirurgicheskoy otdeleniye (za. - prof. G.D. Vilyavin)
Instituta khirurgii imeni A.V. Vishnevskogo AMN SSSR.
(STOMACH--MOTILITY)

LOKSHINA, K.A.; SMOL'YANINOVA, N.S.

Cancer of the small intestine; a case from clinical practice.
Sov.med. 26 no.1:113-115 Ja '63. (MIFA 16:4)

1. Iz rentgenologicheskogo otdeleniya (zav. - prof. P.N.Mazayev)
Instituta khrurgii imeni A.V.Vishnevskogo (dir. - deystvitel'nyy
chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR.
(INTESTINES-CANCER)

BELOUS, I. Kh., st., nauchny. sotr.; KAZANSKIY, Yu.P., VDEVIN, V.V.; KLYAROVSKIY, V.M.; KUZNETSOV, V.I.; NIKOLAYEVA, I.V.; MOLOZHILOV, V.I.; SENDERZON, E.M.; AKAYEV, M.S.; BABIN, A.A.; BERDNIKOV, A.P.; GORYUKHIN, Ye.Ya.; NAGORSKIY, M.P.; PIVEN', N.M.; BAKANOV, G.Ye.; GESLER, I.V.; SMOLYANINOV, N.M.; SMOLYANINOVA, S.I.; YUSHIN, V.I.; D'YAKONOVA, N.D.; REZAJOV, N.M.; KASHTANOV, V.A.; GOL'BEIT, A.I.; SIL'OV, A.P.; GARLASH, A.A.; LYKOV, N.S.; BORODIN, L.V.; RYCHKOV, L.F.; KUCHIN, N.I.; SHAKHOV, F.N., glav., red.; SHAKOVSKAYA, L.I., red.

[West Siberian iron ore basin] Zapadno-Sibirskii zhelezorudnyi bassein. Novosibirsk, Red.-izn. otdel Sibirskego otdeleniya AN SSSR, 1964. - 447 p. (NIKA 17:12)

1. Akademiya nauk SSSR. Sibirskae otdeleniye. Institut geologii i geofiziki. 2. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR (for Belous, Kazanskiy, Vdevin, Klyarovskiy, Kuznetsov, Nikolayeva, Molozhilov, Sanderzon). 3. Institut gornogo dela (for Akayev). 4. Novosibirskoye geologicheskoye upravleniye Ministerstva geologii i ekologii neid SSSR (for upravleniye Ministerstva geologii i ekologii neid SSSR (for Babin, Berdnikov, Goryukhin, Nagorskiy, Piven')).
(Continued on next card)

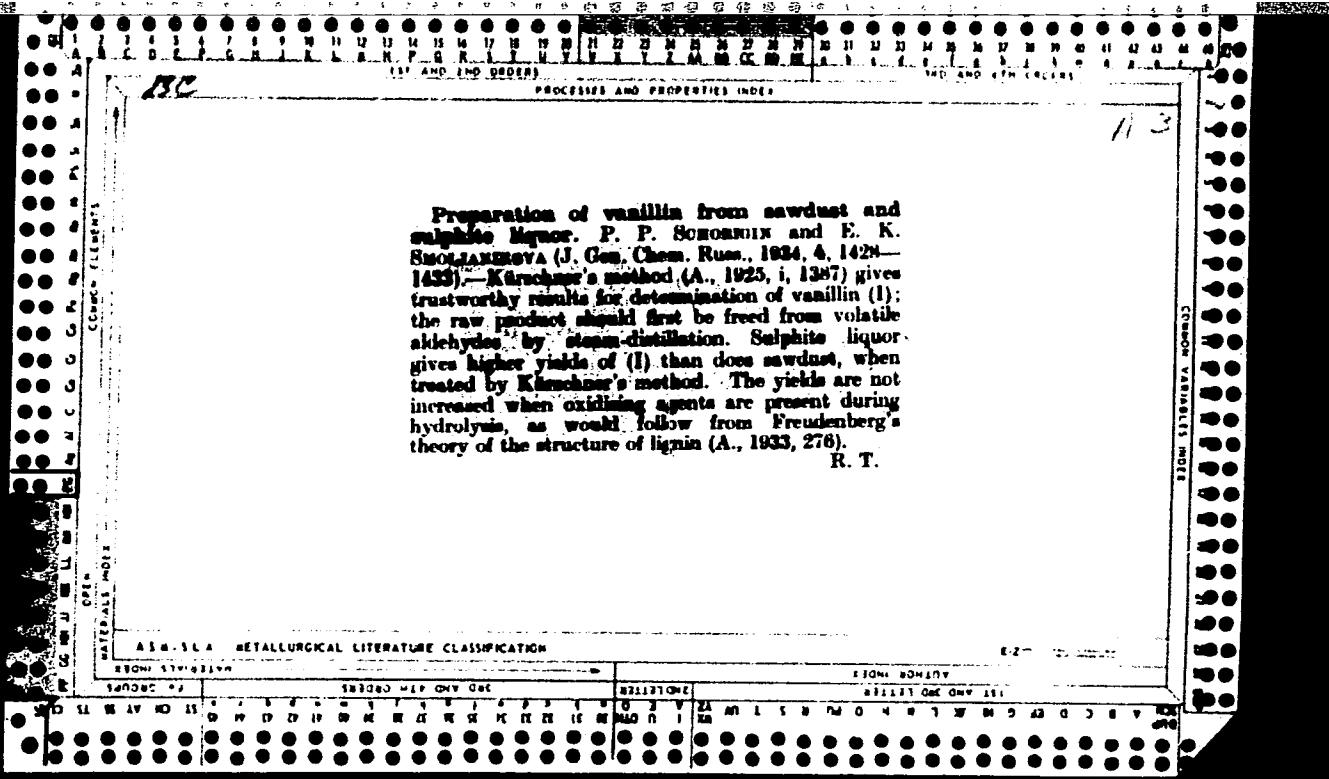
BELOUS, N. Kh. --- (continued). Card 1.

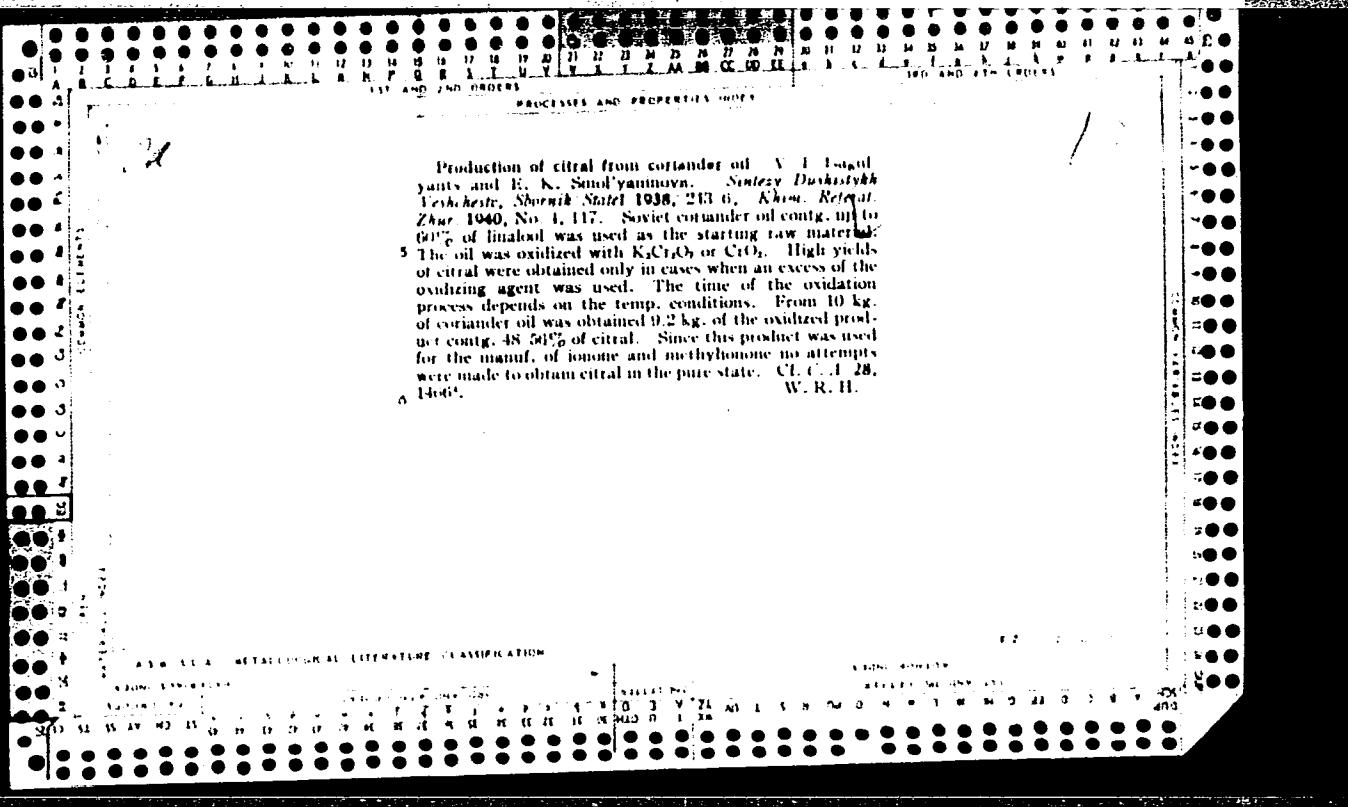
Tomskiy politekhnicheskiy institut (for salenov, Gorbunov, Smolyaninov, Smolyaninova), 5. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya (for Yushin, D'yakonova, Rezapov, Kasnianov, Gel'bert), 6. Institut ekonomiki sel'skogo khozyaystva (for Garnash), 7. Sibirskiy metallurgicheskiy institut (for Bykov, Barodin, Ryabikov), 8. Tomskiy inzhenerno-stroitel'nyy institut (for Kuchkin), 9. Sibirskiy korrespondent AN SSSR (for Shakhev).

SMOL'YANINOVA, V.L.; BOGOSLAVSKIY, A.I.; GARKAVI, R.A. [deceased] .

Comparative evaluation of different methods of investigating
the functional state of the visual analysor in cataracts.
Ush.zap. GNII glaz.bol. no.8:17-39'63. (MIRA 16:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut glaznykh
bolezney imeni Gel'mgol'tsa.
(CATARACT) (OPTIC NERVE)





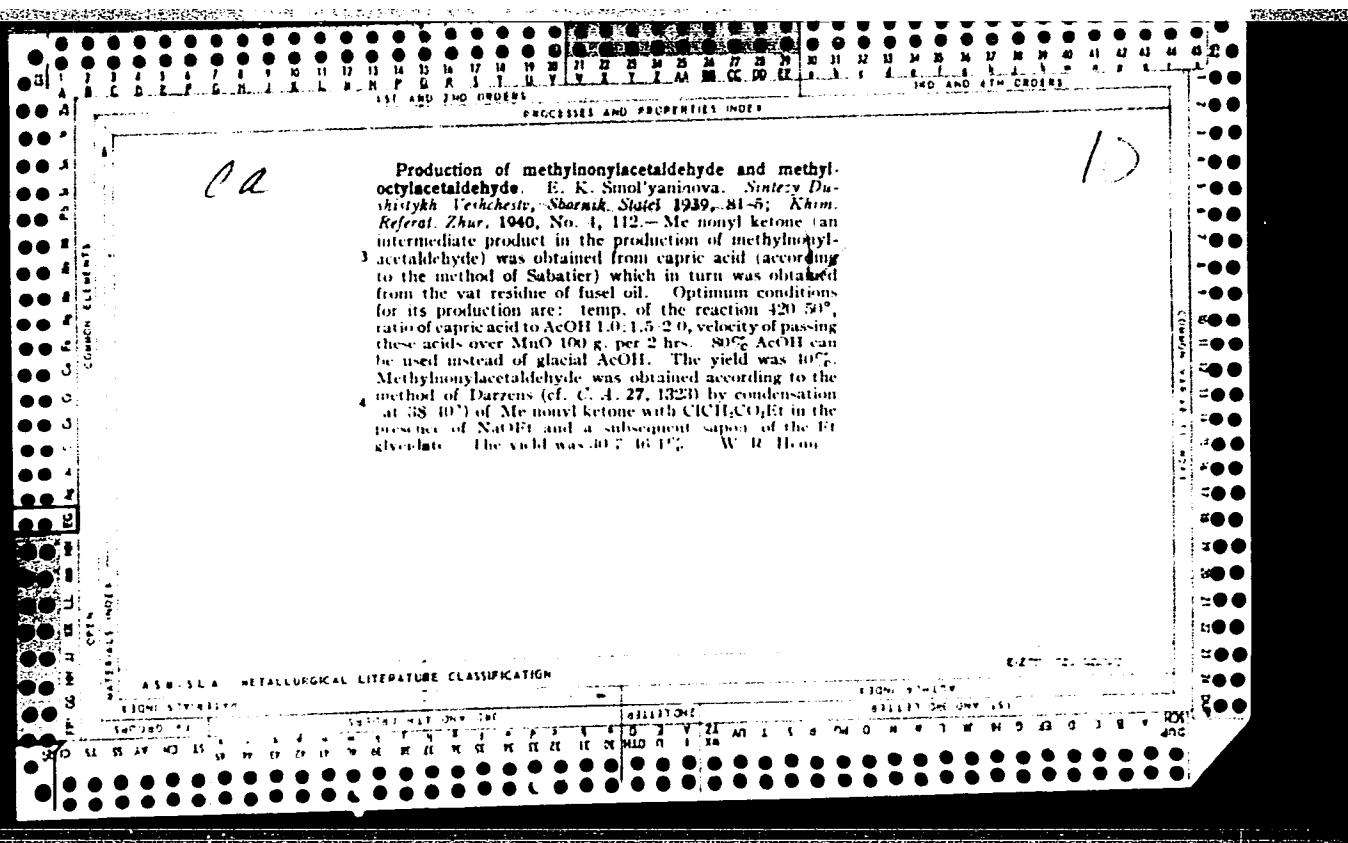
/0

The chemistry of Perkin's reaction. New method of preparation of coumarin and its application on a large scale
 V. I. Tsiglyants and R. K. Smol'yanova. *J. Applied Chem. (U. S. S. R.)* 11, 946-949 (French 934) 1948.
 Tech. α -HOCH₂CHO was prepd. by the Ficmann-Renier method. Isocoumarin was prepd. by the Perkin method modified by Kalinin (cf. *C. A.* 23, 828) as follows: 180 g. of calcined K₂CO₃, 520 g. of Ac₂O and 200 g. of tech. α -HOCH₂CHO (50-60%) were placed in a 2-l. flask provided with a reflux condenser, a cooling system and a thermometer. Immediately after adding the Ac₂O to the K₂CO₃ the temp. of the reaction mixt. rose to 110-20° (due to the heat of reaction) with a violent evolution of CO₂. After that, the reaction mixt. was heated at 180-200° for 1 hr. simultaneously distg. off the AcOH and AcOPh formed and the excess of Ac₂O. Upon cooling to 15-40° the contents of the flask were poured into 5 vols. of cold water. The crude coumarin was extd. with 400-500 cc. of PhMe. The ext. was washed with water (to remove AcOH) and steam-distd. (to remove the PhMe and AcOPh). The residue was distd. *in vacuo*, yielding coumarin which was then crystd. from 95% EtOH, yielding 75% of pure isocoumarin. The method was applied on a larger scale using 25 times of the above amounts of the reactants. A. A. Podgorny

CLASSIFICATION

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

E2



10

Production of benzyl alcohol and benzyl acetate. E. K. Smol'yanina and L. B. Gurevich. Sintez Dushibylkh Veshchestva, Sbornik Statei 1939, 150-4; Khim. Referat. Zhur. 1940, No. 4, 114-16.—A new production method for obtaining benzyl acetate suitable for perfume purposes (contg. no halide compds.) has been developed. Benzyl alc., obtained from BzH according to the modified

method of Davidson and Bogert (C. A. 29, 4341²), was used as the starting substance. The changes consisted in replacing MeOH with EtOH, lowering the reaction temp. from 65-75° to 50-60° and decreasing the amt. of base from 3 to 1.62 mols. BzH was obtained by oxidizing toluene. This gave a complete absence of Cl-contg. products. Acetylation of benzyl alc. was carried out with 80% AcOH for 1 hr. W. R. Heun

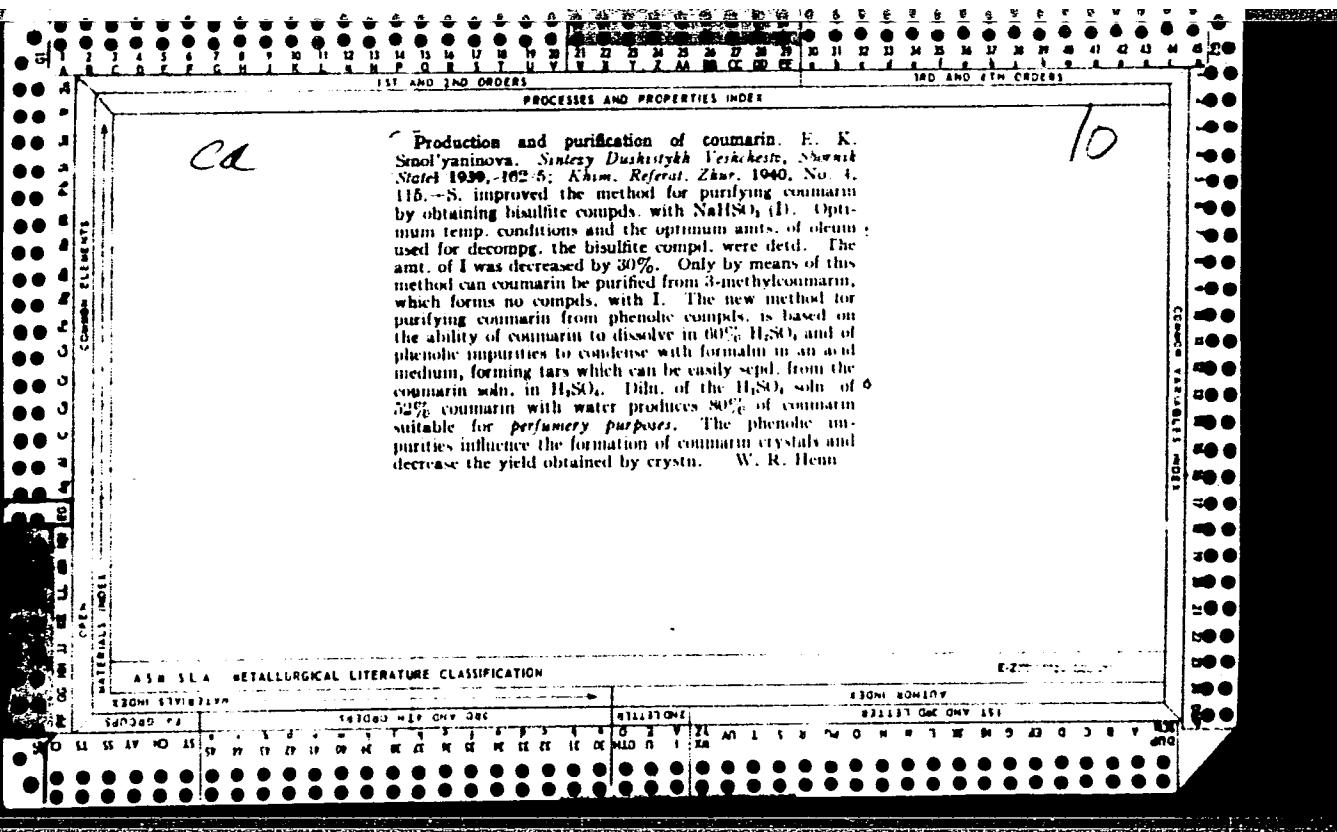
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

EDITION 5-1974

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EDITION 5-1974

SEARCHED ONE ONLY 1ST



The production of vanillin from wood and sulfite liquors. M. D. Seznik, P. P. Shorinjin and E. K. Smolyanina. *J. Gen. Chem. (U. S. S. R.)* 4, 1429-33(1934). Vanillin (I) can easily be detected in prepns. from vegetable sources by its odor, even when present in such small amounts, that quant. analysis is impossible. It is difficult to det. I in such materials and very difficult to isolate it in cryst. form. The quant. method of Kirschner (*C. A.* 26, 2724, 3048) employing $\text{Mn}(\text{OAc})_2\text{CONH}_2\text{NH}_3$ as reagent is superior to other methods, e.g., NaHSO_3 and NH_4OH , and gives accurate values if volatile reactants are first removed. S. and S. have improved K.'s method and obtained lower values. The crude I was dissolved in Na_2CO_3 soln. and steam-distd. to remove volatile aldehydes; the I remains as phenolate. Acidification with H_2SO_4 , extn. with Et_2O , removal of the Et_2O , and soln. in a small vol. of alc. were followed by pptn. with the reagent as directed by K. Sulfite liquors were more suitable as raw material than either sawdust or isolated lignin (II). The largest yield (0.43%) was obtained by hydrolysis with NaOH employed in the ratio of 1.3 parts NaOH to 1 part of dry substance and heating for 7 hrs. Tar formation was increased by substituting Na_2CO_3 for NaOH. Oxidative (CrO_3 and KMnO_4) decompn. of II did not give higher yields of I. This is considered evidence against Freudenberg's formula for II.
Lewis W. Butz

SMOL'VANINOV, E.K.

Intermediates in the synthesis of perfume substances.

I. Synthesis of 1,14-tetradecanediol acid. V. M. Rodionov, E. A. Ogorodnikova, N. N. Shevchenko, S. K. Smol'vaninova, and V. N. Belov. *Zhur. Obshch. Khim.* 36, 1828 (1966).—To the reaction mixt. (330 g.) of EtOAc with 0.6 mole EtONa is added 45 g. $(CH_3)_2Br$, and the mixt. is stirred 40–5 hrs. at 78–80°; after treatment with 200 ml. H₂O, sepn. of the org. layer, washing it with aq. NaCl, concn. *in vacuo*, and addn. of the residue (58–62 g.) to 150 g. powd. KOH and 80 ml. H₂O over 1 hr. at 95–100° (temp. must be below 110°), heating to 100° 2 hrs. longer, the cooled mixt. was dild. with 600 ml. H₂O and acidified to Cougo red with 1:1 HCl, yielding 35–7 g. $(CH_{13}CO_2H)_2$ (Ia); crystn. from hot 50% EtOH gave 60% Ia, m. 114–15°, contg. some 15% $HO_2C(CH_9)_nCO_2H$ (I); final crystn. from EtOH gave the pure dicarboxylic acid, m. 123–4°. I m. 75–8°. Purification of the dicarboxylic acid can be effected by conversion to the di-Me ester by treating with MeOH-H₂SO₄, 2–3 days at room temp., yielding 100% di-Me ester, m. 42.5–3.5°, b_d 185–8°; saponification gave the pure acid, m. 122–3°. If the cleavage is run with less concn. KOH, the reaction yields as a main product 2,5-hexadecanediol. II. Preparation of 2,15-hexadecanediol. V. M. Rodionov, N. E. Kologrivova, E. A. Ogorodnikova, and V. N. Belov. *Ibid.* 1828–30.—The best results in prepn. of 3,15-hexadecanediol (I) were as follows: The condensation product of $(CH_3)_2Br$, with AcCH₂CO₂H (cf. preceding abstr.) and 10% aq. alc. KOH refluxed 1 hr. and cooled gave 71% I; after 2 crystns. from 1:1 aq. EtOH the product m. 85–6°; semicarbzone, m. 108–9°. Lower concn. of NaOH or the use of AcOH gave much poorer yields; heating the condensation product with H₂O 5 hrs. at 200° gave 63% I, but the product was contaminated with tarry by-products.

G. M. Koepman

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2

OGORODNIKOVA, Ye.A.; SHEVYAKOVA, N.N.; SMOL'YANINOVA, Ye.K.; RODIONOV, V.M.,
akademik; BELOV, V.H.

Synthesis of heptadecanolide. Dokl.AN SSSR 90 no.4:553-556 Je '53.
(MLRA 6:5)

1. Akademiya Nauk SSSR (for Rodionov). 2. Vsesoyuznyy nauchno-issledova-
tel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.
(Heptadecanolide)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2"

RODIONOV, V.N.; OGORODNIKOVA, Ye.A.; SHVYAKOVA, N.N.; SHOL'YANINOVA, Ye.K.;
BELOV, V.N.

Intermediates in the synthesis of perfume substances. Report
No. 1: Synthesis of 1,14-tetradecanedioic acid. Trudy VNIIISNDV
no.2:25-26 '54.
(Tetradecanedioic acid)

YUZHINOV, V.M.; SOLOV'YEVA, N.N.; SMOL'YANINA, Ye.K.; BELOV, V.V.;
KROKHIN, N.G.

Intermediates in the synthesis of perfume substances. Report
No. 5: Preparation 11-bromo-undecanoic acids in a continuous
column apparatus. Trudy VNIISNDV no.2:32-33 '54. (MIRA 10:7)
(Undecanoic acid)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2

Бородникова, Е.А.;
Шевыкова, Н.Н.; Смолянинаева, Е.А.; Рудников, В.М.;
Симонов, В.Н.

Synthesis of heptadecanolactone. Trudy VNIISMDV no. 2: 34-54.
(MLRA 10:7)
(Heptadecanoic acid)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2"

SMOL'YANINOVA, Ye.K.; SOLOV'YEVA, N.P.; SVADKOVSKAYA, G.E.; BELOV, V.B.

Synthesis of dihydroambrettolactone. Trudy VNIISNDV no.2:34-35
'54. (MLRA 10:?)

(Ambrettolic acid)

AUTHORS: Byelov, V. N.; Dayev, N. A.; Skvortsova, N. I.; Smol'yaninova, Ye. K.
(Moscow)

TITLE: Progress in Chemistry of Perfumes (Uspekhi khimii dushistykh veshchestv)

PERIODICAL: Uspekhi Khimii, 1957, Vol 26, Nr 1, pp 96-134 (U.S.S.R.)

ABSTRACT: A review is presented of various research work in the chemistry of perfumes and important semiproducts of their synthesis. The achievements of various Soviet and foreign researchers are listed. One group of Soviet chemists - Samokhvalov, Miropol'skaya, Vakulova, Preobrazhenskiy (10 - 12) have synthesized pseudoionone from methylheptenone through condensation with ester of gamma-bromocrotonic acid by means of the Reformatskiy reaction. The Lurie and Skvortsova team synthesized a number of ionone analogues with more complex side chain in the C₂ atom. B. A. Arbuzov and Mukhamedova (47-48) prepared isomers and ionone analogues with the methylene bridge in the cyclohexane ring and obtained analogous products through condensation with ketones for campholene aldehyde. A special section is devoted to the study of ambergris and the synthesis of perfumes with the scent of amber. Soviet chemists described the syntheses of three macrocyclic compounds: heptadecanolide from sebacic acid (75); dihydroambretolide from azelaic acid (76); and

Card 1/3

Progress in Chemistry of Perfumes

dihydro civetone from sebacic acid. Rodionov and associates published data on hydrobromination of undecylenic acid in a continuous action column (83). This group conducted catalytic hydrogenation of diesters and polyanhydrides of certain dibasic acids. The method of obtaining 14-methoxy-3-methyltetradecanoic acid which is an intermediate product in the synthesis of muscone was introduced in 1952 by Samokhvalov, Sibirtseva, Genkin and Preobrazhenskiy (96).

The contributions of other Soviet chemists - Dubinin-Kozhevnikova; Petrov and Sopov (126); Rodionov, Byelov, Ogorodnikova, Shevyakova; Skvortsov-Polyakova (149); Rodionov-Ogorodnikova-Moldovanska (148); Bryusova-Grigoryeva (150); Bryusova-Osipova-Gurevich-Lyuboshits (153); Byelov-Shepelenkova-Kologrivova (154); Machinskaya-Tokarev (155) - in this field of organic chemistry are listed. The names of French, USA, Swiss, and other foreign chemists and their particular accomplishments are not given in the abstract.

As is evident from the review, the last 5 years (1950-1954) have experienced great advances in the chemistry of perfumes. The authors

Card 2/3

Distr: 4E4J

Preparation of ω -hydroxypentadecanoic acid by the method of cross electrolytic condensation. I. Electrocondensation of ω -acetoxyundecanoic acid and monoethyl ester of adipic acid. G. E. Syadkovskaya, S. A. Veltkevich, E. K. Smol'yanina, and V. N. Belov. *Zhur Obshchek Khim.* 27, 2148-52 (1957). Electrolysis of 1:1 to 1:5 mixts. of ω -acetoxyundecanoic acid and $\text{Et}_2\text{OC}(\text{CH}_2)_5\text{CO}_2\text{H}$ for synthesis of ω -hydroxypentadecanoic acid was studied. The app. was either a cell provided with a cooling jacket, using a Pt anode with the steel walls of the cell acting as the cathode, or a smaller cell of flat rectangular shape, also using a Pt anode, with a circulating pump passing the electrolyte continuously through the app. The best conditions which produce 25-7% yield were detd. The best results are obtained with 1:5 molar ratio of the components, at 25-38 amp./sq. dm. c.d. at the anode, with partial neutralization of the starting materials with KOH or NaOH, using 0.875 moles base/mole acid mixt.; best voltage for the continuous cell was 10-12 v., with 8.3 moles $\text{H}_2\text{O}/\text{mole acid mixt.}$, the operating temp. being 40-80°. Na salts gave 3-5% lower yields than the K salts. Electrolysis of the free acids gives but 7% yield of the desired product. The crude product was isolated by distn., b_t 174-220°, and was saponified to ω -hydroxypentadecanoic acid with 10% alc. KOH; after acidification the free acid, m. 85-5.5°.

G. M. Kosolapoff

Smol'yannikov, V. N. 75-11-23/56
AUTHORS: Smol'yannikov, V. N.;
Below, V. N.

TITLE: Investigation of the Condensation Products of the
Undecylenic Acid With Formaldehyde (Issledovaniye produktov
kondensatsii undetsilenovoy kisloty s formal'devidom).

PERIODICAL: Zhurnal Obshchey Khimii, 1957, Vol. 27, Nr 11,
pp. 3015-3021 (USSR)

ABSTRACT: In search of a convenient synthesis of 12-oxydodecanic acid
the authors succeeded in performing the condensation of
undecylenic acid with formaldehyde and in investigating some
conversions of the compounds formed in this reaction.
A similar condensation of formaldehyde with unsaturated acids
had formerly only been described in two papers without
mentioning the undecylenic acid. The present condensation
was carried out by the authors in the presence of H_2SO_4
during six hours at 60-65°C. The following end products
were determined: 4-(ω -carboxyethyl)-1,3-dioxin;
4-(ω -carboxyethyl)-1,3-dioxine; 3-(ω -carboxyheptyl)-4-
oxetetrahydropyran; 3-(ω -carboxetoxheptyl)-4-oxetetrahydropy-
ran and a small quantity of 10-oxydodecanic acid. It was
also shown that these compounds partially manifest themselves

Card 1/2

Investigation of the Condensation Products of the
Undecylenic Acid with Formaldehyde

70-11-23/56

in the form of methyl ester. The structure of 4-(ω -carbo-methoxyethyl)-1,3-dienone and 3-(ω -carbomethoxyheptyl)-4-oxytetrahydrofuran was confirmed by a number of conversions. 4-(ω -carbomethoxyethyl)-1,3-dioxane can over a number of stages be converted to 12-oxydodecanoic acid (about 10%). There are 6 references, 3 of which are Slavic.

ASSOCIATION: All-Union Scientific Research Institute of Synthetic and Natural Aromatic Substances (Vsesoyuznyj nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv).

SUBMITTED: November 1, 1956

AVAILABLE: Library of Congress

1. Undecylenic acids - Condensation reactions
2. Formaldehyde - Condensation reactions

Card 2/2

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2

BELOV, V.; SMOL'YANINOVA, Ye.K.; OGORODNIKOVA, Ye.A.; RODIONOV, V.M.;
SOLOV'YEVA, N.P.; SVADKOVSKAYA, G.E.; SHEVYAKOVA, N.N.

Synthesis of macrocyclic lactones. Trudy VNIISNDV no. 4:3-22
'58. (MIRA 12:5)
(Lactones)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2"

SOLOV'YEVA, N.P.; SMOL'YANINOVA, Ye.K.; BELOV, V.N.

Intermediate products of the synthesis of odorous substances.
Report No.6: Production of ω -oxyacids by the dehydrogenation
of diols. Trudy VNIISMDV no.4:22-25 '58. (MIRA 12:5)
(Dehydrogenation) (Acids, Organic) (Glycols)

SOV/79-28-8-57/66

AUTHORS: Svadkovskaya, G. E., Smol'yaninova, Ye. K., Belov, V. N.

TITLE: Synthesis of the ω -Oxypentadecanic Acids by the Method of "Intersecting" Electrolytic Condensation. II (Poluchenije ω -okspentadekanovoy kisloty metodom "perekrestnoy" elektrolyticheskoy kondensatsii. II)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8, pp. 2268-2273
(USSR)

ABSTRACT: In this report the authors describe the conditions under which the electrolytic condensation of the ω -acetoxyundecanic acids with the monomethyl ester of adipic acid takes place. These conditions give a 25-27% yield of oxypentadecanic acid. When a large number of electrolysis products have been obtained an exact investigation of other compounds arising in these reactions can be undertaken. As is known, the Kolbe (Kol'be) synthesis is accompanied by a number of side reactions, whose nature depend on the experimental conditions. The synthetic products were investigated which formed in the "intersecting" (perekrestnaya) electrolytic condensation, modified after Kolbe. This mixture contained the ethyl ester of ω -acetoxypentadecanic

Card 1/3

SOV/79-28-8-57/66

Synthesis of the ω -Oxypentadecanic Acids by the Method of "Intersecting" Electrolytic Condensation. II

acid (16%), the diethyl ester of sebacic acid (18%), the acetate of eicosandiol (10%), the ethyl ester of pentanic acid (2%), the ethyl ester of pentenic acid (2%), the acetate of decyl alcohol (3-4%), the acetate of decene alcohol (3-4%), the acetate of decandiol (about 0.5%), the diethyl ester of adipic acid (3%), adipic acid (7%), the monoethyl ester of this acid (3%), and ω -acetoxyundecanic acid (below 1%). It was shown that the formation of separate compounds can be explained on the basis of their common assumed behavior according to the mechanism of the Kolbe reaction. There are 25 references, 7 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv (All-Union Scientific Research Institute for Synthetic and Natural Aromatic Materials)

SUBMITTED: June 24, 1957

Card 2/3

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2

SOV/79-26-8-57/66

Synthesis of the ω -Oxypentadecanic Acids by the Method of "Intersecting"
Electrolytic Condensation.II

Card 3/3

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2"

NESMEYANOV, A.N., akademik; FREYDLINA, R.Kh.; BELOV, V.N., prof.; KARAPETYAN,
Sh.A.; SMOL'YANINOVA, Ye.K.; SOLOV'YEVA, N.P.; OGORODNIKOVA, Ye.A.;
VASIL'YEVA, Ye.I.; ZAKHARKIN, L.I.; SHEVYAKOVA, N.N.

Synthesis of macrocyclic lactones and oxalactones based on ethylene
and carbon tetrachloride. Zhur. VKHO 5 no.4:371-376 '60.
(MIRA 13:12)

1. Chlen-korrespondent Akademii nauk SSSR (for Freydlina).
(Lactones)

SVADKOVSKAYA, G.E.; SOLOV'YEVA, N.P.; SMOL'YANINOVA, Ye.K.; BELOV, V.N.;
VOYTKEVICH, S.A.

Preparation of 16-hydroxyhexadecanoic acid by the "cross" electro-
condensation method. Part 3: Electrocondensation of monoesters of
azelaic acid with acyl derivatives of 9-hydroxynonanoic acid.
Zhur. ob. khim. 31 no.9:2877-2879 S '61.
(MIRA 14:9)
(Azalaic acid) (Nonanoic acid)

PETRENKO, L.P.; SMOL'YANINOVA, Yu.L.

Reaction of 2-butene with benzoyl chloride. Zhur. ob. khim. 33
no.6:2041-2042 Je '63. (MIRA 1617)
(Butene) (Benzoyl chloride)

L 36711-65 EPF(c)/EWP(j)/EMT(m) PC-L/Pr-4 RM

S/0080/65/038/001/0170/0173

ACCESSION NR: AP5003122

AUTHOR: Kostsova, A. G.; Smol'yaninova, Yu. L.; Shatalov, V. P.; Kovrzhko,
L. F.

TITLE: Synthesis of technical dodecylmercaptan¹

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 1, 1965, 170-173

TOPIC TAGS: technical dodecylmercaptan, synthesis, synthetic rubber, polymerization regulator

ABSTRACT: Technical dodecylmercaptan was synthesized from higher alcohols obtained by oxidation of paraffins at the Shebekinsk Chemical Co. of Synthetic Fatty Acids. (Shebekinskoye khimicheskoye kibinate sinteticheskikh zherny*kh kislot). A wide fraction of alcohols ($C_9-C_{10}-C_{12}-C_{13}-C_{14}$) and a narrow fraction ($C_{10}-C_{12}-C_{13}$), obtained by vacuum distillation of the former, was used. The alcohols were brominated or chlorinated (HBr, or gaseous HCl) to the haloalkyls which were then reacted with H_2S in an alcoholic solution of KOH. The resultant

Card 1/2

26

24

B

L 36711-05

ACCESSION NR: AP5003122

mixtures of mercaptans, predominantly dodecylmercaptan, were designated technical dodecylmercaptan. The narrow fraction gave a better product. Preliminary tests with the technical dodecylmercaptan indicated it was a good polymerization regulator for synthetic rubber. Orig. art. has: 4 tables

ASSOCIATION: Voronezhskiy gosudarstvenny*y universitet (Voronezh State University)

SUBMITTED: 26Dec62

ENCL: 00

SUB CODE: GC, MT

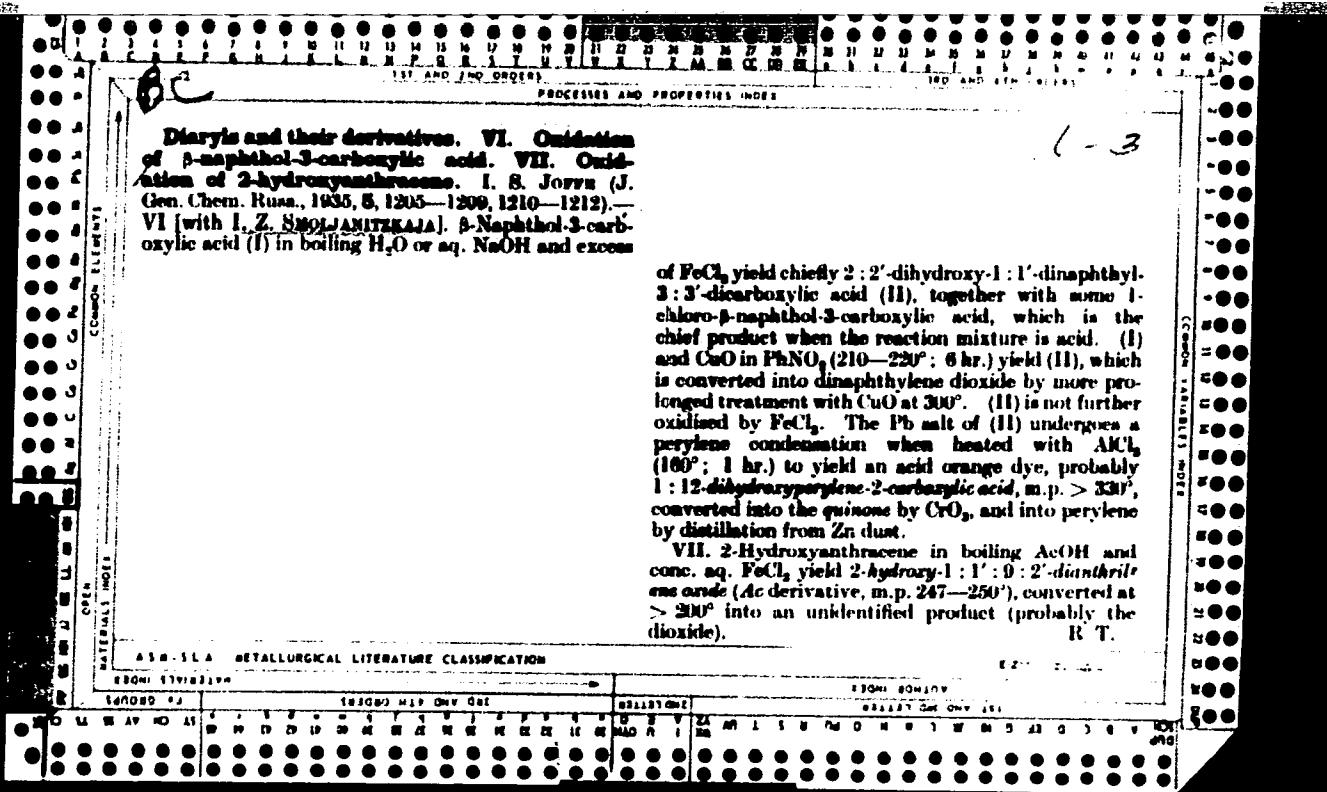
NR REF SOV: 003

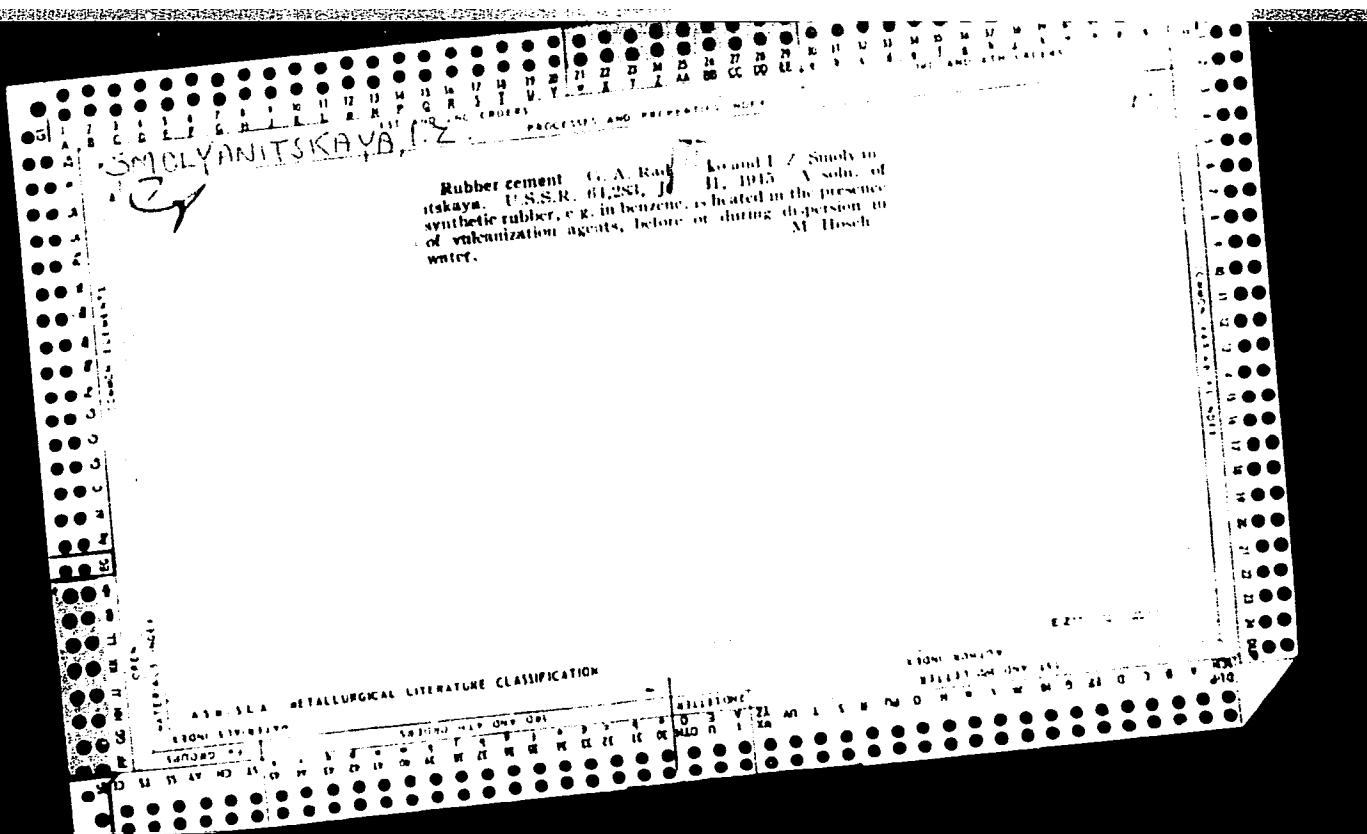
OTHER: 008

Card 2/2

SMOL'YANINOVA, Z.Ya.

Scientific and technical conference on the production of condenser paper. Bum.i der.prom. no.4:55 O-D '62. (MIRA 15:12)
(Paper)





SMOLYANITSKAYA, I.Z.

Design of barrels made from hard fiber materials and the technology
of their manufacture. Trudy NIlitary no.2:51-70 '58.
(MIRA 13:12)

(Coopers and cooperage)

SMOLYANITSKIY, Boris Zinov'yevich; AYZENSHTADT, Mikhail Grigor'yevich

[Vologda Economic Region in the seven-year plan] Vologodskii
ekonomiceskii raion v semiletke. Vologda, Vologodskoe
knizhnoe izd-vo, 1960. 57 p. (MIRA 14:2)
(Vologda Economic Region--Industries)

BAKANOV, Nikolay Aleksandrovich; MALYSHKIN, K.N., retsenzent;
SMOLYANITSKIY, B.Z., red.; KHOT'KOVA, Ye.S., red.izd-va;
KARLOVA, G.L., tekhn. red.

[Manual for the operator of acid preparation plants in
sulfite pulp mills] Posobie kislotchiku sul'fitno-
tselliuloznogo proizvodstva. Moskva, Goslesbumizdat,
1963. 155 p.
(Woodpulp industry)

BARANOV, Nikolay Aleksandrovich; MELNIKOV, S.F., Geroj sotsialisticheskogo truda, rovshenarit; SHADUJKOV, M.P., in-tov.; retsepmen: SKOLYANITSKIY, B.Z., otd. red.

[Technology of woodpulp and cellulose] tekhnologija drevesnoi massy i tselliulazy. Moscow, Lesnaja preryshlenost', 1965.
(MIRA 1813)
354 p.

DZIGORA, I.S.; SMOLYANITSKIY, D.L.

Record for mining coal using the IK-52m cutter-loader. Ugol' 39
no.12:1-5 D '64. (MIRA 18:2)

1. Trest Kuybyshevugol'.

KOZHEVNIKOV, S. N. [Kozhevnykov, S. M.] (Dnepropetrovsk); PRAZDNIKOV,
A. V. [Prazdnykov, A. V.] (Dnepropetrovsk); SMOLYANITSKIY, E. A.
[Smolianyts'kyi, E. A.] (Dnepropetrovsk)

New manipulation mechanism for an automatic blooming mill.
Prykl. mekh. 9 no. 1:86-93 '63. (MIRA 16:4)

1. Dnepropetrovskiy institut chernoy metallurgii.

(Rolling mills)

L 2693-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1) IJP(c) BC

ACCESSION NR: AT5022816

UR/3165/65/000/001/0094/0102

40
B+1

AUTHOR: Kozhevnikov, S. N. (Corresponding member AN UkrSSR); Praznikov, A. V. (Candidate of technical sciences); Smolyanitskiy, E. A.

TITLE: Selection of optimal parameters for a high-speed throttle servo control mechanism with an electronic model

SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Gidravlichеские машины и гидропривод, no. 1, 1965. Issledovaniye gidravlichесkikh ustroystv i sistem (Investigation of hydraulic devices and systems), 94-102

TOPIC TAGS: servomechanism, optimal control, mathematic model, machine tool

ABSTRACT: The present paper considers the problem of utilizing a servo throttle hydraulic drive with rigid negative feedback, operating on water, and using remote manual or automatic control for the mechanisms of heavy high-speed machines. The drive should be capable of performing the following functions:

- a) Operate the mechanisms controlled by it in a broad range of speed; in this case, the maximum speed may reach one or several meters per second. b) Assure the braking of the moving parts of the mechanism within the limits specified by

Card 1/2

L 2693-66
ACCESSION NR: AT5022816

the conditions of endurance and durability of the mechanism. c) Carry out the prescribed displacement of the piston to an accuracy of from one to several millimeters. d) Assure the stability of the system along the entire range of changing speeds. The data obtained from processing the oscillograms obtained show good agreement between the data of the electronic and the physical models, and, therefore, a good approximation of the mathematical description of the processes in the high-speed servo drive. It is shown that with the parameters selected, the maximum pressures arising in the cylinder cavities during braking exceed their rated values only slightly. Orig. art. has: 5 figures, 1 table, and 7 formulas.

ASSOCIATION: none

ENCL: 00

SUB CODE: IE

SUBMITTED: 00

OTHER: 000

NO REF SOV: 000

KC
2/2

Author: V. A. Kuznetsov, V. V. Kostylev, V. V. Slobodkin, V. V. Shchegolev,
Editor: V. V. Slobodkin
Date: 1980

Using an algoritm based on selecting optimal parameters of a
high-speed mechanism with a throttle servomechanism. Giza.
Mass., 1980. No. 1-94-12-165. (MIRA 18:12)

1. Preprint Chernykh institut chernoy metallurgii.
2. Order-independent AM Ural (for Kuchavnikov).

SMOLYANITSKIY, M.Kh.

Universal mass production caramel line. Ref. nauch. rab. VKNII no.1:
31-36 '57.
(Confectionary--Equipment and supplies) (Caramel)

BRONSHTEYN, I.I. & SMOLYANITSKIY, M.Kh.

BRONSHTEYN, I.I.; SMOLYANITSKIY, M.Kh.

Automatic unloading of caramel from coil-type vacuum cookers. Ref.
nauch. rab. VKNII no.1:39-43 '57. (MIRA 11:3)
(Caramel)

"APPROVED FOR RELEASE: 08/31/2001

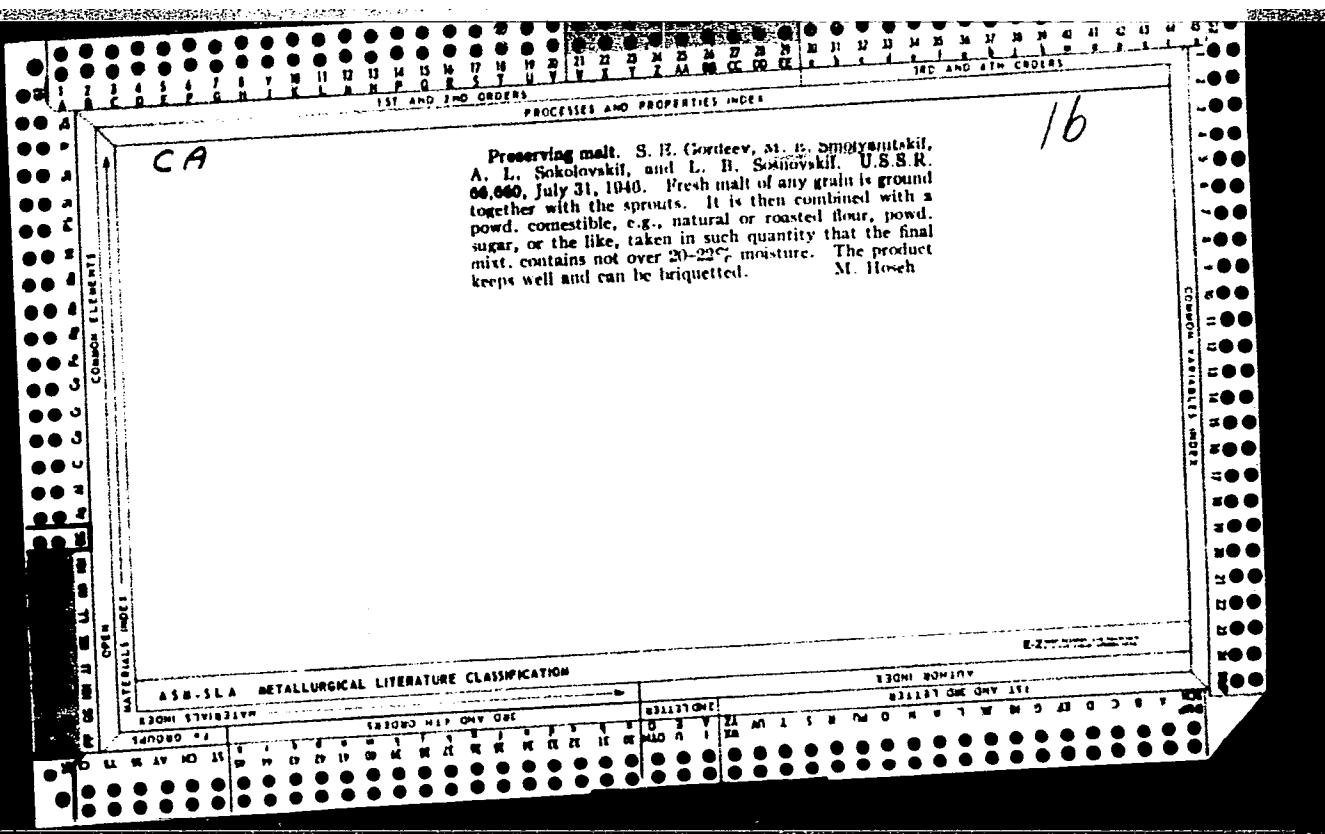
CIA-RDP86-00513R001651720016-2

SMOLYANITSKIY, M. Kh.

Continuous mechanized production line for wrapped candy caramel.
Trudy VKNII no.14:59-65 '59.
(MIRA 14:5)
(Caramel)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651720016-2"



SMOLYANITSKIY, M. Ye.

SOKOLOVSKIY, A.L., professor; SMOLYANITSKIY, M.Ye., nauchnyy sotrudnik;
AUNINA, O.V., nauchnyy sotrudnik; SHKLOVSKAYA, A.Ye., nauchnyy
sotrudnik; GREYSER, R.Ya., nauchnyy sotrudnik.

Continuous mechanized production of caramel. Trudy VKNII no.9:3-48
(MLRA 7:8)
'54.
(Confectionery) (Pastry)

SMOLYANITSKIY, M.Ye.; SOKOLOVSKIY, A.L.

Development and operation of continuous caramel production lines.
Khleb.i kond.prom. 1 no.7:14-18 J1 '57. (MIRA 10:7)

1. Vsesoyuznyy konditerskiy nauchno-issledovatel'skiy institut.
(Caramel) (Confectionery--Equipment and supplies)

AVDEYEVA, A.V., doktor tekhn.nauk; ALEKHIN, S.F., inzh.; ALTUNDZHI, K.S.,
inzh.; BRONSTEYN, I.I., kand.khim.nauk; BRUSSTEYN, M.S.;
GRIGOR'IEV, F.B., inzh.; ZHELEZNOVA, V.V., inzh.; ISTOMINA, M.M.,
kand.tekhn.nauk; KOZLOW, S.A., inzh.; KOLESNIKOVA, V.K., inzh.;
KOCHETKOV, I.A., inzh.; LUNIN, O.G., kand.tekhn.nauk; MANNINA, T.A.,
inzh.; SEREBRYAKOV, M.N., inzh.; SMOLYANITSKIY, M.Ya., inzh.; TYURIN,
A.I., kand.tekhn.nauk; TSYBUL'SKIY, A.A., inzh.; CHERNOIVANNIK, A.Ya.,
inzh.; SHKLOVSKAYA, A.Ye., inzh.; BEN', G.M., inzh., retsentent;
MARSHALKIN, G.A., kand.tekhn.nauk, retsentent; GUSAKOV, A.I., red.;
MARTYNOV, M.I., kand.tekhn.nauk, red.; KRUGLOVA, G.I., red.; KISINA,
Ye.I., tekhn.red.

[Confectioner's manual] Spravochnik konditera. Pod obshchel red. M.I.
Martynova. Moskva, Pishchepromizdat. Pt.2.[Technological equipment of
the confectionery industry] Tekhnologicheskoe oborudovanie konditersko-
go proizvodstva. 1960. 630 p. (MIRA 14:3)
(Confectionery--Equipment and supplies)

LUNIN, Oleg Grigor'yevich, kand.tekhn.nauk; SMOLYANITSKIY, Moisey Yefimovich, inzh.; GUSAKOV, A.I., inzh., retsenzent; KRUGLOVA, G.I., red.; KISINA, Ye.I., tekhn.red.

[Continuous production lines for confectioneries] Potochnye linii proizvodstva konditerskikh izdelii. Moskva, Pishcheprom-izdat, 1961. 160 p.
(Confectionery) (MIRA 14:6)

SMOLYANITSKIY, M.Ye.

[Mechanized continuous line for the production of cast
toffee-type candy] Mekhanizirovannaia potochnaia liniia
proizvodstva litogo irisa. Moskva, TSentr. in-t nauchno-
tekhn. informatsii pishchevoi promyshl., 1964. 10 p.
(MIRA 18:5)

SMOLYANITSKIY, Solomon Vladimirovich; LANINA, L.I., red.; RAKITIN, I.T. ,
tekhn. red.

[Listen, life!] Slushai, zhizn'! Moskva, Izd-vo "Znanie," 1961.
46 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politiche-
skikh i nauchnykh znanii. Ser.10, Molodezhnaia, no.24)
(MIRA 15:1)

(Construction workers)

GRINBERG, A.Ye.; CHERTKOVA, V.F.; SMOLYANITSKIY, V.Z.; MAKEYEVA, A.R.;
RUMYANTSEVA, N.P.

Using benzoates to protect rubber mixtures from scorching; report
no.1. Kauch. i rez. 18 no.1:22-27 Ja '59. (MIRA 12:1)

1. Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh
izdeliy. (Vulcanization) (Benzoic acid)

EYDEL'NANT, N.L.; RUBINA, S.I.; SMOLYANITSKIY, V.Z.; SEREBRYAKOVA, V.L.;
PLUNGLIAN, L.V.; DASHKEVICH, V.S.; Prinimali uchastiye:
PESCHANSKAYA, R.Ya.; LEVINA, A.Yu.; GOL'DBREYKH, I.Ye.;
SHCHERBAKOVA, L.P.; PAPULOVA, P.A.

Activated kailin and its use in rubber compounding. Kauch.
i rez. 20 no.9:46-49 S '61. (MIRA 15:2)

1. Nauchno-issledovatel'skiy institut rezi novykh i lateksnykh
izdeliy, Vsesoyuznyy nauchno-issledovatel'skiy institut plenochnykh
materialov i iskusstvennykh kozhi i zavod "Sangigiyana".

(Kaolin)
(Rubber, Synthetic)

PESCHANIKOV, R.Ya.; FEDO'TENOK, N.N.; GOLYANTSEV, V.D.; GORENOVICH, A.I.;
GOFEKOVICH, V.V.; GAILOPOVSKII, I.Ye.; NEKSEYEV, N.A.; TIKHONOV, Zn.L.

Use of heteroalkylbenzyl pyridinium ion in the ss vulcanization
acceleration of rubber compounds. Kaučuk iрез. 24 no.10(77) p.
165. (MTPA 18.10)

Nauchno-issledovatel'skiy institut rezinovyykh i lateksovykh
izdeliy i Zavod "Krasnyy trudogor'nik".

SMOLYANITSKIY, V.Z.; KHEYFETS, A.A.

Plants for rubber goods. Kauch. i rez. 24 no.10:43-44 '65.
(MIPA 18:10)
1. Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh
izdeliy.

L 22246-66 EWP(j)/EWT(m) IJP(c) RM
 ACC NR: AP6006493

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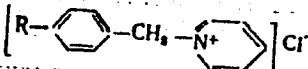
AUTHOR: Peschanskaya, R. Ya.; Eydel'nant, N. L.; Smolyanitskiy, V. Z.; Gershovich,³³
 A. I.; Stefanovich, V. V.; Gal'braykh, I. Ye.; Alekseyeva, N. A.; Tikhonova, Zh. I.³²

ORG: Scientific-Research Institute of Rubber and Latex Products (Nauchno-issledovatel'skiy
 institut rezinovykh i lateksnykh izdeliy); "Red Triangle" Plant (zavod "Krasnyy treugol'nik")
 TITLE: The use of p-alkylbenzylpyridinium chloride as a vulcanization catalyst for rubber
 mixtures¹⁵

SOURCE: Kauchuk i rezina, no. 10, 1965, 27-29

TOPIC TAGS: vulcanization, catalyst, butadiene styrene rubber, synthetic rubber, rubber
 chemical

ABSTRACT: A cationactive pyridinium compound, p-alkylbenzylpyridinium chloride (katapin):



(1)

where R is an aliphatic radical containing 12-14 carbon atoms, was studied as a vulcanization catalyst. Katapin is a water-soluble dark-brown paste, now being produced on a semi-industrial basis. When large-scale industrial production is organized, katapin production costs will be close to those of captax, the least expensive vulcanization catalyst. Katapin is found to

Card 1/2

UDC: 678.044.004.14

net

ACC NR: AP7000350

SOURCE CODE: UR/0413/66/000/022/5115/016

INVENTOR: Goron, I. Ye.; Baranov, Yu. A.; Dembinskiy, V. F.; Merkin, I. Kh.; Pankov, G. A.; Penchuk, N. V.; Smolyanitskiy, V. Z.; Volkov, Yu. D.

ORG: none

TITLE: Electromagnetic flaw detector. Class 42, No. 188737

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 115-116

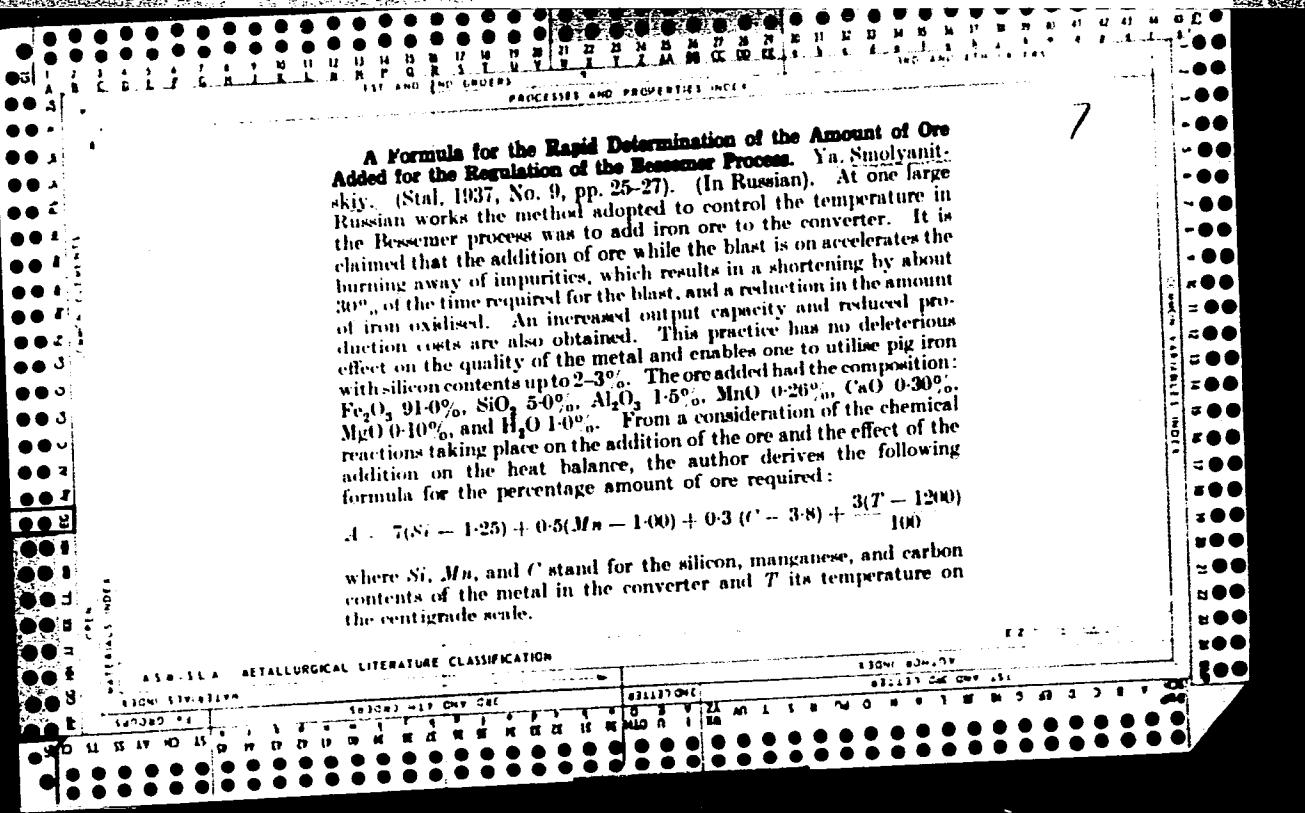
TOPIC TAGS: flaw detector, magnetic flaw detector, magnetic field ~~measuring device~~, ~~flaw detection, electromeasuring device~~

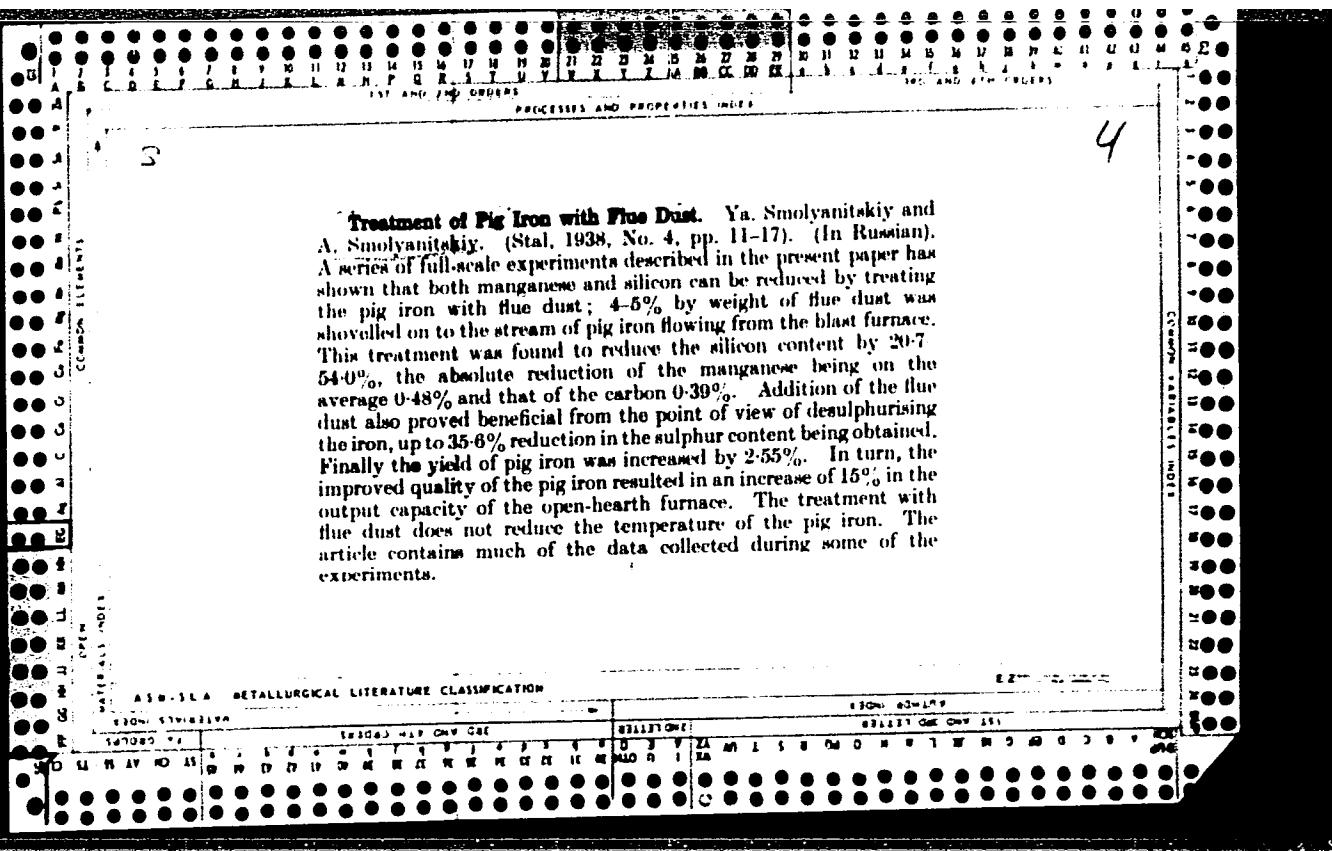
ABSTRACT: This Author Certificate introduces an electromagnetic flaw detector containing 1) a primary magnetic flux conductor for magnetizing the inspected article, 2) a secondary magnetic flux conductor for duplicating the magnetic field configuration of the article surface, 3) generators with alternating magnetic field ensuring hysteresis-free transfer of the magnetic field configuration, and 4) magnetic recording heads. To inspect shaped articles, the conductor is clamped to the article with elastic rings stretched over the article. To maintain its cylindrical shape, the secondary conductor is enclosed in a vacuum shell. Orig. art. has: 1 figure.

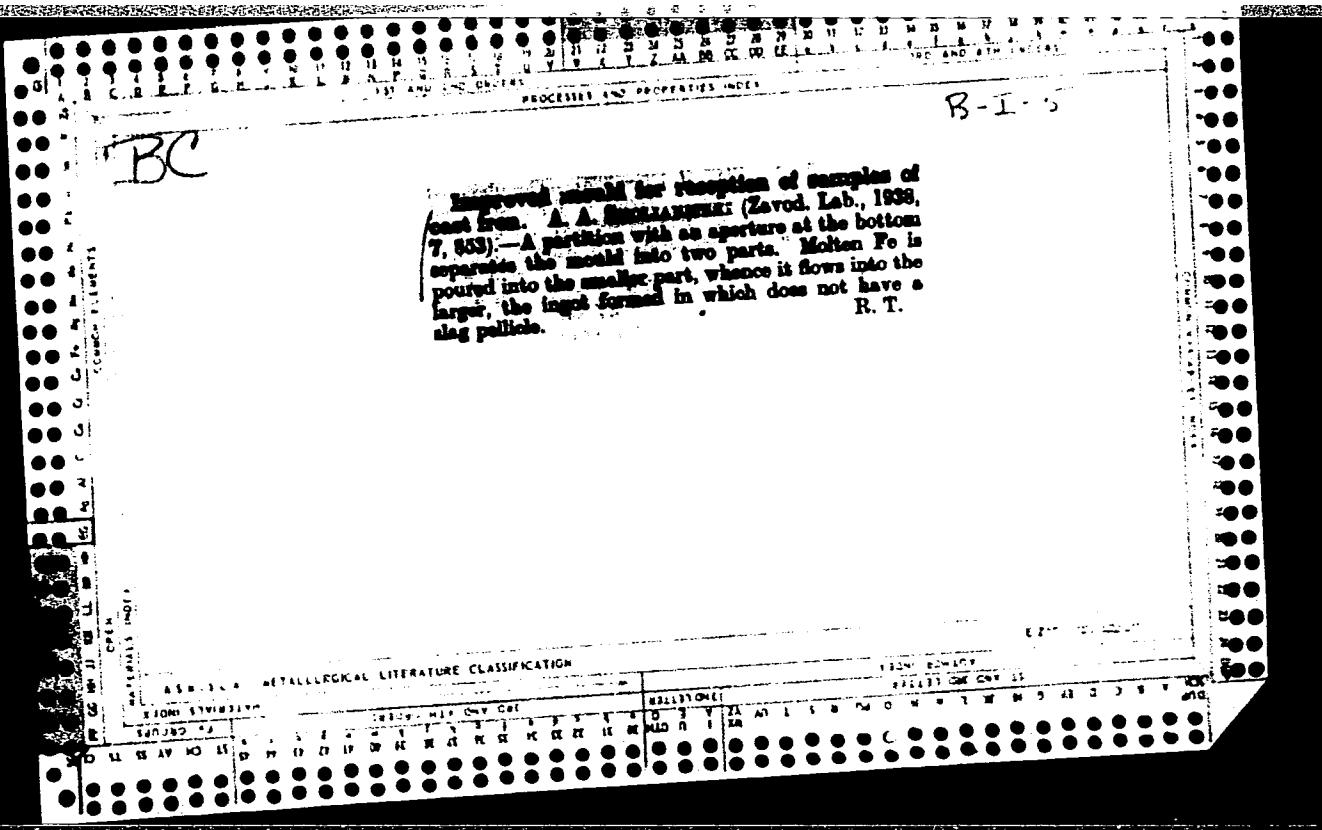
SUB CODE: 1407/SUBM DATE: 11Aug65/

UDC: 620.179.14.08

Card 1/1







EXTRACTS AND PREPARED BY

RC

Effect of cupola slag on the structure and properties of cast iron. Ya. A. Smolyantskii. *Litovsk. Delo* 1940, No. 7, 13-16. The content of SiO₂, Al₂O₃, P₂O₅ and S in slag was the same in all heats with different fluxes such as limestone, open-hearth slag, dolomite and their combinations. The effect of these fluxes was greater on MgO and CaO content than on FeO and MnO. Best structure and mech. properties were shown by cast Fe prep'd. with fluxes of (1) open-hearth slag and dolomite and (2) limestone and dolomite. Limestone alone produced coarse graphite structure and low mech. properties. Open-hearth slag was better than limestone in producing good mech. properties, yield and graphite structure. No relation was found between chem., compn. and fluidity of slag or between fluidity of slag and the mech. properties of the cast Fe. However, the cast Fe with coarsest graphite inclusions and lowest mech. properties were obtained with slags of lowest fluidity.

B. Z. Kamch

ARM-55A METALLURGICAL LITERATURE CLASSIFICATION

16

Viscosity Control of Cupola Slags. Ya. A. Smolyantsev, Henry Bratcher (Altadena, Calif.). Translation No. 2112, 1948, 4 pages. From Zavodskaya Laboratoriya (Factory Laboratory), v. 14, no. 2, 1948, p. 214-215.

Gives data on a proposed rectangular-block viscosimeter (figure gives design and tentative dimensions) for the above; also gives results obtained with it. Advantages of proposed viscosimeter: simplicity, low cost, and high accuracy. Time required for one viscosity determination: less than one minute. 3 ref.

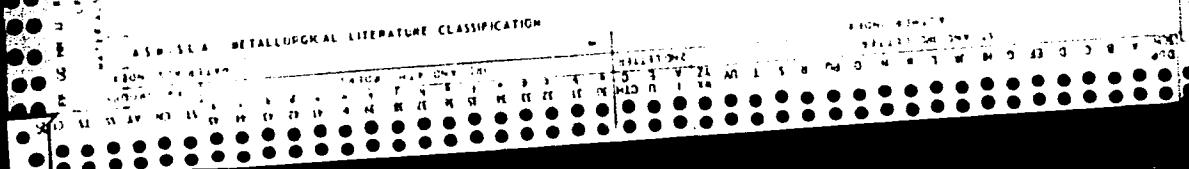
SPOLYANOVICH, V.A. .

Smol'yanitsky, A. A., Arsen, V. D. and Savanova, V. V. "The effect of the composition of the charge and of the pig iron on the durability of the sand-earth furnace walls," Trudy Stalinstroj. Nauko-tekhnicheskaya VINITOM, No 1, 1969, p. 107-11
- Millions of hours

SU: J-401, 17 Dec 69 DR 103, (Letopis' Zhurnal 'Soviet States', 26. 1969)

Method for Determination of Stresses in Cast Structural Elements (in Russian). Ya. A. Smolyantsev.
Zavodskaya Laboratoriya (Factory Laboratory), v. 15, May 1949, p. 684-688.

Describes and diagrams method for the above, using a dial-type instrument called the "optimeter." High sensitivity of this method in residual-stress determinations was confirmed experimentally.



SMOLYAMITSKII, Ya. A.
B.S. lecturer

The Relieving of pressures in the cast construction by means of local inductive heating.

Vest Mash p. 55 Oct 51

SMOLYANITSKIY, Ya. A., Engr.

USSR/Metals - Steel, Heat Treatment

Jan 52

"Normalization of Steel Castings With Simultaneous Accelerated Tempering," Ya. A. Smolyanitskiy, Engr, Donets Industrial Inst imeni Khrushchev

"Litey Proizvod" No 1, pp 2-4

Describes expts to establish new heat treating process for shaped castings of medium carbon steels. Accelerated tempering satisfactorily relieves thermal stresses imposed by previous normalization. Entire process takes 7 hours, up to removal of castings from furnace for final cooling, vs 14-18 hrs required for annealing.

204T67

SMOLYANITSKIY, Ya.A.

Rapid methods of applying heat treatment to steel. Lit,proizv, no.7:30-31
Jl '53.

(MLRA 6:7)

(Steel--Heat treatment)

BRAYNIN, I.Ye., professor; SMOLYANITSKIY, Ya.A., dotsent; BUDINSHTEYN,
R.I., inzhener.

Effect of mixture ratio on the durability of casting molds. Stal'15
no.1:79-81 Ja '55. (MIRA 8:5)

1. Donetskiy industrial'nyy institut.
(Iron founding)

SMOLYANITSKIY, Ya. A.

Smolyanitskiy, Ya. A.

✓ Testing the Dynamic Strength of Mould Mixtures. Ya. A. Smolyanitskiy. [Zavodskaya Laboratoriya, 1055, 21, (10), 1236-1237]. [In Russian]. In the apparatus described a formed green sample of mould mixture is placed on a horizontal surface which is repeatedly raised and allowed to fall through a distance of 20 mm. The index of dynamic strength is taken to be the arithmetic mean of the number of impacts between the appearance of the first crack and its passage over the whole upper surface. Results obtained show the effect of moisture on the dynamic strength of similarly and differently compacted samples. Deviations from the mean did not exceed 10%. — s. K.

Done to Inst. Inst. m. N. S. Khrushchev

AUTHOR:

Smolyanitskiy, Ya A.

SOV-118 58-8 9/21

TITLE:

Methois for Reducing Thermal Stresses in Cast Constructions
During Casting into the Raw Mold (Puti umen sheniya termi-
cheskikh napryazheniy v litykh konstruktsiyakh pri otlivke
v syryyu formu)

PERIODICAL:

Izteynoye proizvodstvo, 1958, Nr 6, pp 16-18 (USSR)

ABSTRACT:

Thermal stresses in casts increase with the speed of cooling in the mold. This speed depends on the size of the mold, the temperature of the metal, and the thermo-physical properties of the mold material. The moisture content of the molds also exerts a considerable influence, especially in thin-walled molds. The influence of the moisture content has been studied on small molds of 1.4 kg (Figure 1). The heat conductivity of the mold mixture increases with the moisture content. In Figures 2 and 3, the results of tests of compression and gas permeability in molds with different moisture content and density are shown. At a moisture content of 5.35%, and a density caused by 5 blows of the ram, the compression resistance is 0.67 kg/cm², the gas per-

Card 1/2

SOV-128-58-8-9/21
Methods for Reducing Thermal Stresses in Cast Constructions During Casting
into the Raw Mold

meability 70, and the elastic deformations 0.234 mm.
A decrease in moisture content increases the technological qualities of the mold materials. There are 3 graphs,
1 table, 1 diagram, and 8 Soviet references.

1. Metal castings--Stresses 2. Thermal stresses--Analysis

Card 2/2

25(1)

SOV/148-59-2-15/24

AUTHORS: Smolyanitskiy, Ya.A., Candidate of Technical Sciences, Docent,
and Kapliy, N.I., Engineer

TITLE: Plastic Deformations in Mechanical Retardation of Metal Shrinkage
(Plasticheskiye deformatsii pri mekhanicheskem tormozhenii usadki
metalla)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya,
1959, Nr 2, pp 111-116 (USSR)

ABSTRACT: Information is given on the dependence of plastic deformation on
mechanical retardation of metal shrinkage at different temperatures.
Investigations of shrinkage retarded by a constant load were
carried out on a device shown in Figure 1 and with the use of
Silumin as starting material. It was proved that the mechanical
brake action caused retarded linear shrinkage due to elastic-
plastic deformations. These deformations developed within
140 seconds in two stages: intensive formation and subsequent
attenuation. Their temperature range was from 584°C at the begin-
ning and 350-330°C at the end. Increased shrinkage retardation
extended the stage of intensive development and speeded-up the
deformation rate. These factors reduced the actual shrinkage
values. The effect of the retardation stress on the temperature
range of plastic deformation was hardly noticeable.

Card 1/2

S/123/60/000/023/003/008
A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No. 23, p. 205,
127808

AUTHORS: Smolyanitskiy, Ya. A., Kapliy, N. I.

TITLE: The Effect of Mechanical Shrinkage Inhibition on Hot Cracking in Castings

PERIODICAL: Tr. Donetsk. industr. in-ta, 1959, Vol. 36, pp. 111-120

TEXT: Results are expounded from an investigation of the inhibition of casting shrinkage at the origination of hot cracks. The design is described of a device for inhibiting the shrinkage by a force of constant magnitude. A special method is developed for determining the conditional strength limit of cast material in the temperature range of hot crack origination. It turned out that hot cracks develop at stresses of 1.7-2.0 kg/cm² in aluminum specimens of 10 mm thickness, 20 mm width, and 200 mm length, if they solidify in sand molds; the magnitude of the shrinkage inhibition force does not affect the instant of cracking, but increases their size; hereat, the tensile strength of metal increases, too. The ✓

Card 1/2

S/123/60/000/023/003/008
A005/A001

The Effect of Mechanical Shrinkage Inhibition on Hot Cracking in Castings

results from the investigation are compiled in tables and graphs. There are 7 figures and 5 references.

S. Yu. A.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

S/128/60/000/012/011/014
A054/A030

AUTHOR: Smolyanitskiy, Ya.A.

TITLE: The Determination of Foundry Shrinkage and the Elastic-Plastic Deformation of Various Parts of the Castings

PERIODICAL: Liteynoye proizvodstvo, 1960, No. 12, pp. 36 - 37

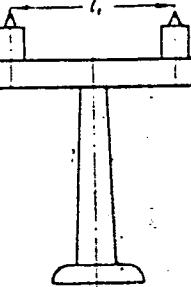
TEXT: Mechanical and thermal retardation of shrinkage results in plastic deformations in the casting, during the entire cooling time from the first appearance of shrinkage until the final temperature is reached. The deformations are unevenly distributed in the casting and it is necessary to know their mechanism in order to control the factors retarding shrinkage, the appearance of cold and hot cracks of deformations and to establish an adequate technology for pouring. The phenomena occurring during retarded shrinkage in the course of hardening and cooling are described in Reference 1 (Korol'kov, A.M.: "The Phenomena of Shrinkage in Castings of Cracks During Hardening", AN USSR, Moscow, 1957), the concentration of deformations by uneven temperature distribution along the sample are discussed in Reference 2 (Smolyanitskiy, Ya.A. and Ivashchenko, V.M.: "News of Schools of Higher Education", Iron Metallurgy, 1958, No. 4) but these reports

Card 1/4

S/128/60/000/012/011/014
A054/A030

The Determination of Foundry Shrinkage and the Elastic-Plastic Deformations of Various Parts of the Castings

refer to laboratory tests on straight, small samples, carried out with rather intricate instruments. The present article deals with the determination of the elastic-plastic deformations and the values of actual, free and delayed shrinkage in various parts of the casting. With the device shown in Figure 1 pairs of conical index marks are made in the lower and upper parts of the mold and also on the cores; the distance l_1 between these pairs is established in accordance with the size and the structure of the casting, the extent of uneven distribution of temperature and the dimensions of the places where deformations concentrate. The dimensions of the conical protrusions on the device are chosen in accordance with the kind of casting and its liquidity with its external dimensions and its cross section. For instance, for malleable cast iron or silumin sufficiently precise and acute-angle protrusions can be obtained, when the height of the cone is 3 mm and the diameter of its base 4 mm. For steel castings and large castings of any alloy the protrusions have to be larger. The distance between the tops of the conical protrusions l_2 can be measured with a slide caliper with a reading accu-



Card 2/4

S/128/60/000/012/011/014
A054/A030

The Determination of Foundry Shrinkage and the Elastic-Plastic Deformations of Various Parts of the Castings

racy of 0.05 mm. The value of absolute shrinkage is obtained from the difference in the readings of the distance between the markings in the mold and the protrusions on the casting $y = l_1 - l_2$, the actual shrinkage is determined from $E = (l_1 - l_2) : l_1 \cdot 100\%$. The results for free and thermically retarded shrinkage in various parts of a malleable cast iron holding device before and after tempering are represented in Figure 2. There are 2 figures and 2 Soviet references.

Card 3/4

S/128/60/000/012/011/014
A054/A030

The Determination of Foundry Shrinkage and the Elastic-Plastic Deformations of Various Parts of the Castings

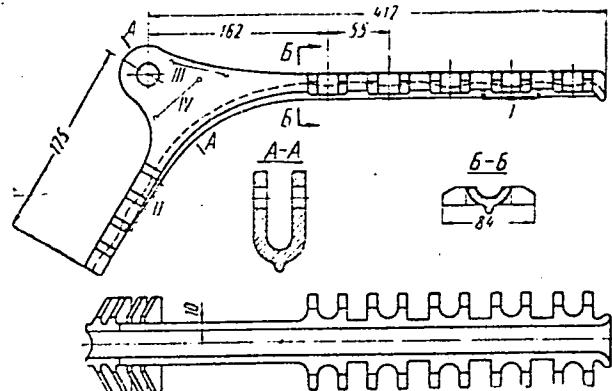


Figure 2: Free and retarded shrinkage in a holding devie. Due to the uneven speed of cooling the casting deforms in the direction indicated by arrows. In section III, IV tensile stresses and deformations occur, in sectors I, II shrinkage is free.

Card 4/4