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KHOLOPOV, P, N.

USSR/Astronomy - Star Clusters Nov/Dec 51

"Stellar Association Around the Diffuse Cluster NGC 6231 in Scorpio," P. N. Kholopov, State Astr Inst imeni Shternberg

"Astron Zhur" Vol XXVIII, No 6, pp 472-491

V. A. Ambartsumian (cf. "Stellar Evolution and Astrophysics," Erevan, 1947; "Astron Zhur" Vol XXVI, 1949; "Iz Ak Nauk, Ser Fiz" 14, 1950) noticed instability and recent formation of these stellar systems. Described results of research are summarized from foreign literature. Author expresses gratitude to Prof Parenago for advice.

1947G

KHOLOPOV, P.N.

KUKARKIN, B.V.; PARENAGO, P.P., YEFREMOV, Yu.I. KHOLOPOV, P.N.; POLYAKOVA, T.V., tekhnicheskiy redaktor.

[Fourth supplement to the first edition of the general catalog of variable stars, containing data on 105 variable stars noted in 1952, with more precise data on 613 earlier noted variable stars] Chetvertoe dopolnenie k pervomy izdaniiu obshchego kataloga peremennykh zvezd, soderzhashchee svedeniia o 105 peremennykh zvezdakh, oboznachennykh v 1952 g., a takzhe utochnennye svedeniia o 613 ranee obozhachennykh peremennykh zvezdakh. Moskva, Izd-vo Akademii nauk SSSR, 1952. 86 p.
(Stars, Variable) (MLRA 8:7)

KHOLOPOV, P.N.

Problem of stellar associations. Vop.kosm.1:195-233 '52.
(MLRA 7:2)
(Stars--Distribution)

KHOLOPOV, P.N.

DI Cephei. Per.zvezdy 9 no.2:157-160 N '52. (MLRA 7:2)

1. Astronomicheskiy Sovet Akademii nauk SSSR (Moscow).
(Stars, Variable)

1. KHOLOPOV, P. N.

2. USSR (600)

4. Cosmogony - Congresses

7. Second All-Union Conference on Cosmogony.
Vest. AN SSSR 22 no. 8, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

KHOLOPOV, P. N.

USSR/Astronomy - Star Clusters Nov/Dec 52

"Ellipticity of Spherical Star Clusters," P. N. Kholopov, Astron Council, Acad Sci USSR

"Astron Zhur" Vol 29, No 6, pp 671-681

Divides clusters in several sectors and plots for each sector a curve of density. Presents such curves and data for clusters NGC 5139, NGC 5272, NGC 6266. Submitted 10 Sep 52.

239T77

1. KHOLOPOV, P. N.

2. USSR (600)

4. Stars, Variable

7. Variation in brilliance of dwarf stars with emission lines in three areas of the constellations Orion and Taurus. Astron. tsir., No. 110, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

SHKLOVSKIY, I. S. - KHOLOPOV, P. N.

Nebulae

Indentification of nebula NGC 1316 with a radio star in the Fornax system. Astron. tsir. no. 131, 1952

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KHOLOPOV, P.N.

KUKARKIN, B.V.; PARENAGO, P.P.; YEFREMOV, Yu.I.; KHOLOPOV, P.N.

[Fifth supplement to the first edition of the general catalog of variable stars, containing data relative to 70 variable stars appearing in 1953 plus more precise data on 324 variable stars appearing earlier] Piatoe dopolnenie k pervomu izdaniiu obshchego kataloga peremennykh zvezd, soderzhashchee svedeniia o 70 peremennykh zvezdakh, oboznachennykh v 1953 g., a takzhe utochnennye svedeniia o 324 ranee oboznachennykh peremennykh zvezdakh. Moskva, Izd-vo Akademii nauk SSSR, 1953. 51 p. (MLRA 7:9)
(Stars, Variable)

KHOLOPOV, P. N.

SPZ 918 Persei - a Variable of U Gemini Type With Large Amplitude or a Nova. Peremennyye Zvezdy, No 5, 1953, 334-336.

Previous studies and 59 photoplates of Moscow Observatory were analyzed. The magnitude of the star could be established only on two negatives and it was not found on the other plates. Therefore it seems to be either a Nova or a variable with very large amplitude. (RZhAstr, No 9, 1954)

SO: W-31128, 11 Jan 55

KHOLOPOV, P.N.

Spatial distribution of RR Lyrae-type variable stars in spherical clusters M5 and NGC 3201. Per.zvezdy 9 no.6:371-378 0 '53.
(MLRA 8:2)

1. Astronomicheskiy sovet AN SSSR.
(Stars, Variable) (Stars--Clusters)

KHOLOPOV, P.N.

SPZ 919 Persei. Per.svezdy 9 no.6:408-409 0 '53. (MLRA 8:2)

1. Astronomicheskiy sovet AN SSSR.
(Stars, Variable)

KHOLOPOV, P.N.

Cepheid variable IU Cygni. Per.zvezdy 9 no.6:409-411 O '53.
(MLRA 8:2)

1. Astronomicheskiy sovet AN SSSR.
(Stars, Variable)

KHOLOPOV, P.N.; KHARADZE, E.K., professor, direktor.

Professor Kharadze's catalog. Nauka i zhizn' 20 no.5:38 My '53.
(MLRA 6:6)

1. Abastumanskaya astrofizicheskaya observatoriya (for Kharadze).
(Stars--Spectra)

KHOLOPOV, P.N.

Visible distribution of stars in twenty spherical star clusters.
Trudy GAISH 23:250-301 '53. (MLRA 7:5)
(Stars--Clusters)

USSR/Astronomy - Star Clusters Jan/Feb 53

"Formula for Finding Distribution of Density in a Spheroidal Star Cluster, Suggested by Kienle," P.N. Kholopov, Astron. Council, Acad Sci USSR

"Astron Zhur" Vol 30, No 1, pp 50, 51

Criticizes H. Kienle's formula (A.N. 232 (1928)) as inaccurate and attempts to correct Kienle's equations. Received 20 Nov 52.

246T39

KHOLOPOV, P. N. Jul/Aug 53

USSR/Astronomy - Variable Stars

"Spatial Distribution of Variables of the Type RR Lyrae in a Globular Cluster of Omega Centauri," P. N. Kholopov, Astron Council, Acad Sci SSSR

Astr Zhur, Vol 30, No 4, pp 426-441

Article, the first of a series, attempts to transform curves of visual density into curves of spatial density and particularly to analyze spatial density of variables of RR Lyrae type in a cluster of Omega Centauri. Received 23 Feb 53.

262T30

KHOLOPOV, P. N. Sep/Oct 53

USSR/Astronomy - Cluster, Globular

"Spatial Distribution of Stars of Various Types in the Globular Cluster M3," P. N. Kholopov, Astron Council, Acad Sci USSR

Astron Zhur, Vol 30, No 5, pp 517-531

Article is second of a series started in same journal Vol 24 (1947). Analyzes data obtained by H. Shapley et al (Harvard Observatory) and H. Zeipel (Sweden) and attempts new determination of relative concentration of various type stars in center of cluster M3. Recd 18 Mar 53.

Source #264771

KHOLOPOV, P. N.

USSR/Astronomy - Bibliography Dissertations

Sep/Oct 53

"Bibliography. Index to Astronomical Literature Published in the USSR in May/June 1953," Yu. G. Perel'

Astron Zhur, Vol 30, No 5, pp 572-576

Lists 7 monographs (books, brochures, symposia), 3 ephemerides, 9 'Trudy' (Works) of institutions, 34 articles from 16 periodicals, 9 articles from 7 dailies and gazettes, 2 bibliographies, and 4 author abstracts of dissertations. The 4 dissertations are: 1. M. P. Kazachevskiy, Cand Phys-Math Sci, "Photometric Determination of the Reflectivity of the Terrestrial Globe," Alma-Ata, 1953, 8pp, 120 copies, Acad Sci Kazakh SSR, Astrophys Inst. 2. S. G. Slyusarev, Cand Phys-Math Sci, "Wolf-Rayet Stars," Leningrad, 1953, 8pp, 100 copies, Leningrad U im Zhdanov. 3. P. N. Kholopov, Cand Phys-Math Sci, "Structure of Globular Stellar Cluster," Moscow, 1953, 8pp, 110 copies, Moscow State U, Astron Inst im Shternberg. 4. A. I. Kochetkov, Cand Tech Sci, "Development of a New System of Spherical Coordinates and Formulas for the Computation of Astronomical Observations," Moscow, 1953, 100 copies, Moscow Inst of Engineers of Geodesy, Aerial Photography, and Cartography.

264T76

KHOLOPOV, P.N.

SPZ 918 Persei is a variable of the U Geminorum type with great amplitude or a nova. Per.zvezdy 9 no.5:334-336 Je '54. (MLRA 7:8)

1. Astronomicheskiy Sovet Akademii nauk SSSR.
(Stars, Variable) (Stars, New)

KHOLOPOV, P.N.

Observations and consolidated brightness curve of RY Tauri. Per. zvezdy 10 no.3:180-186 0'54. (MIRA 8:12)

1. Astronomicheskiy sovet AN SSSR
(Stars, Variable)

KHOLOPOV, P.N.

Color-magnitude diagram and zero point of the period-luminosity curve for Cepheid variables. Astron.tsir. no. 148:5-8 Ap '54. (MLRA 7:8)

1. Astronomicheskiy sovet Akademii nauk SSSR.
(Stars, Variable)

KUKARKIN, B.V., redaktor; PARENAGO, P.P.; YEFREMOV, Yu.I.; KHOLOPOV, P.N., GUROV, K.P., redaktor; ACTAF'YEVA, G.A., tekhnicheskiy redaktor.

[Seventh supplement to the first edition of the General catalog of variable stars] Sed'moe dopolnenie k pervomu izdaniiu obshchego kataloga peremennykh zvezd. Moskva, Izd-vo Akademii nauk SSSR, 1955. 71 p. (MLRA 8:12)
(Stars, Variable--Catalogs)

KHOLOPOV, P.N.

Spatial distribution of red giants and RR Lyrae variable stars in globular cluster M 15. Per. zvezdy 10 no.5:253-261 '55. (MLRA 9:9)

1. Astronomicheskiy sovet AN SSSR.
(Stars--Distribution)

KHOLOPOV, P.N.

Observations and consolidated brightness curve of RW Aurigae [with summary in German]. Per.zvezdy 10 no.6: 390-402 Jl '55. (MLRA 10:2)

1. Astronomicheskiy Sovet AN SSSR, Moskva.
(Stars, Variable)

KHOLOPOV, P.N.

Structure of the system of bright stars in globular cluster M3.
Astron.zhur.32 no.4:309-313 Jl-Ag'55. (MLRA 8:10)

1. Astronomicheskiy sovet Akademii nauk SSSR
(Stars--Clusters)

KHOLOPOV, P.N.

"Necessity of working on a classification of stars of the T-Tauri type", a paper presented at the Conference on Nonstationary stars held at the Byurakan Astrophysics Observatory of the Academy of Sciences Armenian SSR from September 20-23 1956.

Sum. 1287

KHOLOPOV, P.N.

KUKARKIN, B.V.; PARENAGO, P.P.; [illegible], Yu.I.; KHOLOPOV, P.N.; GUROV, K.P. redaktor izdatel'stva; POLYAKOVA, T.V. tekhnicheskiy redaktor.

[Eight supplement to the first edition of the general catalog of variable stars containing information on 629 variable stars recorded in 1956] Vos'moe dopolnenie k pervomu izdaniiu obshchego kataloga peremennykh zvezd, soderzhashchee svedeniia o 629 peremennykh zvezdakh, oboznachennykh v 1956 g. Moskva, Izd-vo Akad. nauk SSSR, 1956. 61 p. (MLRA 10:6)
(Stars--Catalogs) (Stars, Variable)

KHOLOPOV, P.N.

Variable stars in open star clusters [with summary in English].
Per. zvezdy 11 no.5:325-351 Jl '56. (MIRA 12:1)

1.Astronomicheskiy sovet AN SSSR, Moskva.
(Stars, Variable)

KHOLOPOV, P.N.

Spatial distribution of stars of various types in the globular cluster M4. Astron. zhur. 33 no.1:46-53 Ja-F '56. (MLRA 9:6)

1.Astronomicheskiy sovet Akademii nauk SSSR.
(Stars--Distribution)

KHOLOPOV, P.N.

Density distribution of RR Lyrae-type variables in globular clusters and phenomena of stratification in these systems [with summary in English]. Per.zvezdy 11 no.3:202-209 F '57. (MIRA 12:1)

1. Astronomicheskiy sovet AN SSSR, Moskva.
(Stars, Variable) (Stars--Clusters)

MARTYNOV, D.Ya.; KHOLOPOV, P.N.

The V 751 Cygni a R Coronae Borealis-type variable star. Per. zvezdy 11 no.3:222-225 F '57. (MIRA 12:1)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga i Astronomicheskiy sovet AN SSSR, Moskva.
(Stars, Variable)

KHOLOPOV, P.N.

MS Cassiopeiae. Per.zvezdy 12 no.1:69-72 S '57 [Publ.1959.]
(MIRA 13:5)

1. Astronomicheskiy Sovet AN SSSR, Moskva.
(Stars, Variable)

KHOLOPOV, P.N.

Symposium on nonstationary stars. Vop. kosm. 5:287-290 '57.
(Dublin--Astronomy--Congresses) (MLRA 10:8)

YEFREMOV, Yu.I.; KHOLOPOV, P.N.; KUKARKIN, B.V., otv. red.; POLYAKOVA, T.V., tekhn. red.

[Ninth supplement to the first edition of the general catalog of variable stars, containing information on 337 variable stars recorded in 1957] Deviatoe dopolnenie k pervomu izdaniiu obshchego kataloga peremennykh zvezd, soderzhashchee svedeniia o 337 peremennykh zvezdakh, obosnachennykh v 1957 g. Moskva, Izd-vo Akad. nauk SSSR, 1958. 46 p. (MIRA 11:12)
(Stars, Variable--Catalogs)

KHOLOPOV, P. N.

Voprosy kosmogonii, t. 6 (Problems in Cosmogony, Vol. 6) Moscow, Izd-vo AN SSSR, 1958. 367 p. 2,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Astronomicheskiy sovet.

ARTICLES

REPORTS

AUTHOR: Kholopov, P.N. 33-35-3-12/27

TITLE: The Spectrum-Luminosity Diagram for T-Associations (Diagrammy svetimost'-spektr dlya T-assotsiatsiy)

PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 3, pp 434-447 (USSR)

ABSTRACT: For 10 T-associations (groups of irregular variable stars of the type RW Aur) the spectrum-luminosity diagrams are constructed, namely for T Ori, S Mon, T Tau, RY Tau, UZ Tau, RW Aur, CO Ori, IC 348, R CrA and a group of stars in the region of ρ Oph. The results admit the following conclusions:
1. The variables of the type RW Aur lie on the diagram in a wide strip which is denoted by the author as the T-strip (its limits are given). Under variation of light the variables go on the diagram in the direction of the strip. The T-strip extends from the spectral class O to M.
2. The variables of the type RW Aur in general are subgiants which are different from the usual subgiants of constant luminosity. Among them there are not only found stars up to the class K 3, but also of the class M 6. The variables of the spectral classes O-G can be found above the main sequence as well as below it.
3. There exists no essential difference between the variables

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of the type RW Aur which are found in O- and T-associations. The diagrams luminosity spectrum for T-associations differ from those for O-associations only by the absence of hot stars of the spectral classes O - BO and of the supergiants.
4. Probably each O-association is not only a T-association but also inversely: with almost each T-association a dispersed group of hot stars can be connected.
There are 9 figures, and 32 references, 6 of which are Soviet, 18 American, 2 German, 1 Swedish, 1 Dutch, 1 Spanish, and 3 English.

ASSOCIATION: Astronomicheskiy sovet Akademii nauk SSSR (Astronomical Council of the Academy of Sciences of the USSR)

SUBMITTED: January 4, 1958

3(1) SOV/33-35-4-3/25

AUTHORS: Artyukhina, N.M. and Kholopov, P.N.

TITLE: The Distribution of Stellar Density in the Open Star Cluster M37 (Raspredeleniye zvezdnoy plotnosti v rasseyannom zvezdnom skoplenii M37)

PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 4, pp 524-547(USSR)

ABSTRACT: The authors present a detailed investigation of the apparent and space distribution of stars of different types p (red giants), s=q+t (brightest stars), u and w in the open cluster M37. The investigations are based on the position, magnitude and colour index data of 1885 stars given by Zeipel and Lindgren [Ref 2]. The results are represented in numerous diagrams, and compared with each other. The curves of equal apparent density show that the groups of stars have different centers of concentration which are determined from these curves. The main object is the study of the radial distribution of the space density f(r) of the single groups with respect to their centers of concentration. The core of the cluster is the same for all groups. The core contains for each group a central zone of practically constant density and a zone of maximum gradient of density

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which is called the inner zone of the core. These zones are most sharply defined for the groups p,s and do not coincide for the four groups under consideration. The authors particularly direct to the uncertainty in the results which is caused by their very sensitive dependence on the adopted positions of the centers of concentration.
There are 13 figures, 8 tables, and 11 references, 3 of which are Soviet, 3 American, 3 Swedish, and 2 German.

ASSOCIATION: Gos. astronomicheskiy in-t imeni P.K.Shternberga
Astronomicheskiy sovet AN SSSR (State Astronomical Institute imeni P.K.Shternberg Astronomical Council AS USSR)

SUBMITTED: April 30, 1957

3(1)
AUTHOR: Kholopov, P.N. SOV/33-36-2-11/27

TITLE: A Revised List of T - Associations and Their Members

PERIODICAL: Astronomicheskiy zhurnal,1959,Vol 36,Nr 2,pp 295-304 (USSR)

ABSTRACT: The paper contains 2 tables. In the first table there are given the 29 real and 12 possible T - associations and their members (see V.A. Ambartsumyan [Ref 1]). The coordinates, diameters, distances and population are given. A second table contains all the stars of the class RW Aur and registers their type according to a new classification. G. Herbig, G. Haro and the author lectured on the principle of this classification on the meeting concerning instationary stars in Byurakan (see [Ref 5]). P.P. Parenago and G.A. Manova are mentioned in the paper. There are 1 figure, 2 tables, and 37 references, 10 of which are Soviet,17 American, 4 South American, 3 English, 2 German, and 1 Egyptian.

ASSOCIATION: Astronomicheskiy sovet Akademii nauk SSSR (Astronomical Council AS USSR)

SUBMITTED: May 8, 1958

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3(1)
AUTHOR: Kholopov,P.N. SOV/33-36-3-6/29

TITLE: The System of T - Associations

PERIODICAL: Astronomicheskiy zhurnal, 1959,Vol 36,Nr 3,pp 434-443 (USSR)

ABSTRACT: The paper is a continuation of [Ref 1]. It is stated: the system of T-associations is plane; there exist chains of T-associations; T-associations exist in all the scattered groups of hot stars at a distance up 500 ps from the Sun; the spectral composition of T-associations connected with nebulae in essential is the same in all cases; there exists no distinction on principle between O- and T-associations. The partial densities of T-associations not connected with nebulae are much lower than the densities of associations connected with nebulae, and their diameters are much larger than those of the latter. According to the author, that points to an extension of the T-associations by which the variable stars of the type In are changed to stars of the type Is. The author mentions G.A.Manova and B.Ye.Markaryan. There are 12 references, 4 of which are Soviet, 5 American, 2 South American, and 1 German.

ASSOCIATION: Astronomicheskiy sovet Akademii nauk SSSR (Astronomical Council AS USSR)

SUBMITTED: May 8, 1958

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KHOLOPOV, P.N.

QX Cassiopeiae. Astron. tsir. no.199:22 Ja '59.
(MIRA 13:2)

1.Astronomicheskiy sovet AN SSSR.
(Stars, Variable)

YERLEKSOVA, G.Ye.; LANGE, G.A., PEROVA, N.B.; SATANOVA, E.A.; KHOLOPOV, P.N.; TSAREVSKIY, G.S.

QX Cassiopeiae. Astron. tsir. no.201:12 Ap '59. (MIRA 13:2)

1.Institut astrofiziki AN Tadzh. SSR. Odesskaya astronomicheskaya observatoriya, Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga i Astronomicheskiy sovet AN SSSR.
(Stars, Variable)

KHOLOPOV, P.N., kand.fiziko-matematicheskikh nauk; LEVIN, B.Yu.; KOSTYLEV, K.V.

In the Astronomy Council. Vest.AN SSSR 30 no.9 99-102 S '60. (MIRA 13:9)

(Astronomy)

KUKARKIN, B.V.; YEFREMOV, Yu.I.; KHOLOPOV, P.N.

[The first supplement to the second edition of the general catalog of variable stars containing information on 796 variables indicated in 1960 and specified information on 1,647 previously indicated variables] Pervoe dopolnenie ko vtoromu izdaniiu obshchego kataloga peremennykh zvezd, soderzhashchee svedeniia o 796 peremennykh zvezdakh, oboznachennykh v 1960 g., a takzhe utochnennye svedeniia o 1647 ranee oboznachennykh peremennykh zvezdakh. Moskva, Gos.astronomicheskii institut im. P.K.Shternberga Mosk.gos.univ.im.M.V.Lomonosova, 1960. 226 p. (MIRA 14:3)

(Stars, Variable--Catalogs)

YERLEKSOVA, G. Ye.; LANGE, G.A.; PEROVA, N.B.; SATANOVA, E.A.; KHOLOPOV, P.N.; TSAREVSKIY, G.S.

QX Cassiopeiae. Per.zvezdy 13 no.1:41-51 Ap '60. (MIRA 14:3)

1. Institut astrofiziki AN Tadzhikskoy SSR; Odesskaya astronomicheskaya observatoriya; Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga i Astronomicheskiy sovet AN SSSR.
(Stars, Variable)

KHOLOPOV, P.N.

New evaluations of the brightness of RY Tauri. Per.zvezdy 13 no.6: 430-434 '61. (MIRA 16:9)

1. Gosudarstvennyy astronomicheskiy institut imeni Shternberga. (Stars, Variable)

ARTYUKHINA, N.M.; KHOLOPOV, P.N.

Distribution of stellar density in the cluster M 67. Astron.zhur. 38 no.6:1039-1054 N-D '61. (MIRA 14:11)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.
(Stars--Cluster) (Stars--Density)

KHOLOPOV, P.N.

Three variable stars discovered by G.S. Badalian. Astron. tsir. no.228:23 Ap '62. (MIRA 16:6)

1. Gosudarstvennyy astronomicheskiy institut im. Shternberga.
(Stars, Variable)

KHOLOPOV, P.N.

Distribution of the density of bright stars in globular cluster NGC 5466. Per. zvezdy 14 no.2:71-81 Je '62.
(MIRA 17:2)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga, Moskva.

ARTYUKHINA, N.M.; KHOLOPOV, P.N.

List of novae recommended for the determination of coordinates and proper motions. Astron.zhur. 39 no.6:1129-1131 N-D '62. (MIRA 15:11)

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga.

(Stars, New)

KHOLOPOV, P. N.

Density distribution of stars in M2 globular cluster and some remarks on the dynamic evolution of globular clusters. Astron. zhur. 40 no.1:118-126 J-F '63. (MIRA 16:1)

1. Gosudarstvennyy astronomicheskiy institut im. P. K. Shternberga.

(Stars—Clusters)

KHOLOPOV, P.N.

Stellar density distribution in the globular cluster M 15.
Astron. zhur. 40 no.3:523-533 My-Je '63. (MIRA 16:6)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga.
(Stars—Clusters)

ARTYUKHINA, N.M.; KHOLOPOV, P.N.

Open cluster M 37 and the coronas of star clusters. Astron. zhur. 40 no.6:1101-1111 N-D '63. (MIRA 16:12)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.

KARIMOVA, D.K.; KHOLOPOV, P.N.

A.N.Deich's object. Astron. tsir. no. 259:2 S '63. (MIRA 17:5)

1. Gosudarstvennyy astronomicheskiy institut imeni Shternberga.

ARTYUKHINA, N.M.; KHOLOPOV, P.N.

Structure, population and dimensions of the star cluster NGC 752, Astron. zhur. 41 no.4:743-749 Jl-Ag '64 (MIRA 17:8)

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shtern-berga.

KHOLOPOV, P.N.; ARTYUKHINA, N.M.

Luminosity function of the stars in the M[illegible]. Astron. zhur. 41 no.5:968-973 S-O '64.

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga. (MIRA 17:10)

KHOLOPOV, P.N.

Bright stars in the region of the nucleus of the cluster M 67.
Astron. zhur. 42 no.1:148-159 Ja-F '65. (MIRA 18:2)

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga.

KHOLOPOV, P.N.

Theory of stellar evolution and some characteristics of star clusters. Astron.zhur. 42 no.2:369-376 Mr-Ap '65.
(MIRA 18:4)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.

ARTYUKHINA, N.M.; BELOUSOV, P.N.

Structure of the system of bright stars in the NGC 7243 cluster.
Astron.zhur. 42 no.5:1050-1056 S-O '65. (MIRA 18:10)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.

KHOLOPOV, P.N.

Unified origin and evolution of star clusters. Astron. zhur. 42 no.6:1195-1208 N-D '65. (MIRA 19:1)

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga.
Submitted March 25, 1964.

KHOLOPOV, S.A., kandidat tekhnicheskikh nauk.

Calculated deformations and the effect of creep in correcting the axis of hingeless arch. Trudy Khab. IIT no.7:147-157 '54. (MLRA 8:1)
(Arches) (Structures, Theory of)

KHOLOPOV, V. D.

Kholopov, V. D. -- "Study of the Elements of Topography in the Secondary School Geography Course." Min Education RSFSR, Moscow Oblast Pedagogical Inst, Moscow, 1955 (Dissertation for Degree of Candidate in Pedagogical Sciences.)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

SHARETS, D.S.; KHOLOPOV, V.D.; POBEDINA, M.P.; TSVETKOV, P.V.; OL'SHANSKAYA, Yu.S.

Brief news: In memory of Arkadii Gustavovich Berens. Geog.v shkole 22 no.4:86 Jl-Ag '59. (MIRA 12:11)
(Berens, Arkadii Gustavovich, 1896-1959)

GVOZDKOV, N.N.; KHOLOPOV, V.L.

Heat propagation in a hollow conical body. Inzh.-fiz. zhur. 6 no.5:119-123 My '63. (MIRA 16:5)

1. Gosudarstvennyy universitet, Voronezh.
(Heat--Conduction)

L 47572-66

ACC NR: AP6032163 SOURCE CODE: UR/0410/66/000/004/0050/0054

AUTHOR: Dmitriyev, V. D.; (Kazan'); Yermolayev, Yu. P. (Kazan'); Kholopov, V. V. (Kazan') 22 B

ORG: none

TITLE: The problem of increasing the accuracy of RC distributed parameter networks

SOURCE: Avtometriya, no. 4, 1966, 50-54

TOPIC TAGS: RC circuit, distributed parameter, CIRCUIT DESIGN

ABSTRACT: The problem of manufacturing distributed film RC networks with reproducible transfer characteristics is analyzed. The networks are made by vacuum deposition through masks of alternate rectangular layers of conductive, dielectric, and resistive materials. The problem of reproducibility arises when there is a spread in the mask apertures and their alignment. Fig. 1 illustrates some of these reproduction problems. Fig. 1a shows an uneven layer of resistive material (white) on the capacitance (hatched region). The RC product remains the same because whenever the resistance per unit length increases there is a corresponding decrease in per-unit capacitance; lateral mask misalignment is therefore not harmful. Fig. 1b shows the lower capacitance plate layer (hatched region L units long), a resistive layer (white region), film contacts attached to the resistance (hatched end areas), and the equivalent circuit for this ideal configuration. Fig. 1c shows that when the

Card 1/4 UDC: 621.382.416

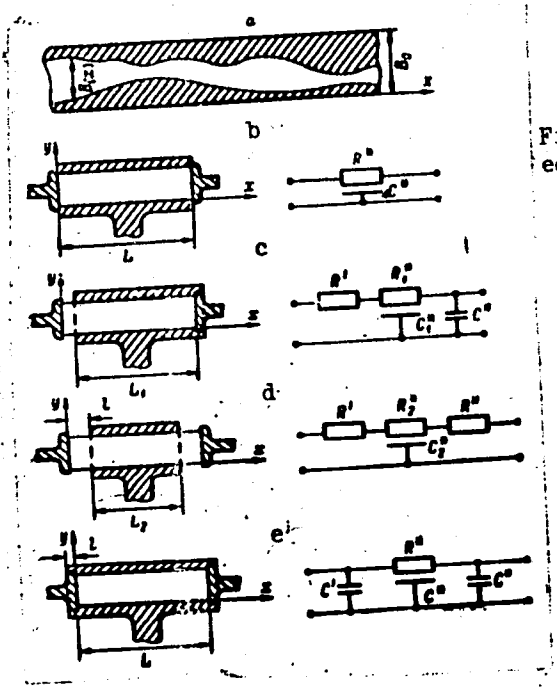


Fig. 1. Distributed RC networks with equivalent circuits.

resistive layer and contact layers are misaligned, R' and C'' appear, respectively. To combat this problem, either the resistive layer is made to overlap the capacitive layer, (Fig. 1d), in which case the RC circuit acquires two bulk resistors (R' and R'') but the RC product remains as designed, or, preferably, the contact layer is made to overlap the resistive and lower capacitance plate layers, thus producing capacitances C' and C'', (Fig. 1e). Figs. 2 and 3 show the results of tests of RC

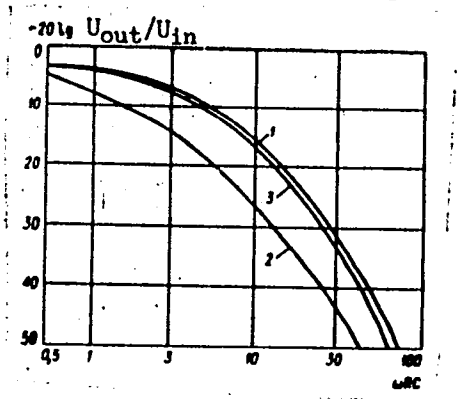


Fig. 2. Transfer characteristics for network of Fig. 1b.

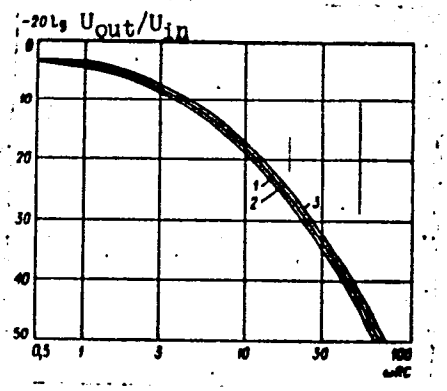


Fig. 3. Transfer characteristics for network of Fig. 1d.

L 47572-66

ACC NR: AP6032163 O

distributed networks (L = 10 mm) made according to the methods shown in Figs. 1b and 1e, respectively. Curve 1 in both figures corresponds to exact mask alignment; curves 2 and 3 correspond to maximum mask shift of 1 mm in the left and right directions. Orig. art. has: 2 formulas and 4 figures. [BD]

SUB CODE: 09/ SUBM DATE: 20Jan66/ ORIG REF: 001/ OTH REF: 001/ ATD PRESS: 5093

Card 4/4

L 10682-66 EWT(1)/EWA(h) TG

ACC NR: AP6000525 SOURCE CODE: UR/0142/65/008/005/0607/0611

AUTHOR: Yermolayev, Yu. P.; Kholopov, V. V.

45
B

ORG: none

TITLE: Evaluation of the complexity of film and hybrid microelectronic modules from the viewpoint of number and type of contact junctions

SOURCE: IVUZ. Radiotekhnika, v. 8, no. 5, 1965, 607-611

TOPIC TAGS: system reliability, microelectronic packaging

ABSTRACT: An analysis is presented of the complexity of microelectronic modules as it is affected by type and number of contacts and method of interconnection. Four types of contacts are considered: 1) contacts between film elements; 2) soldered or welded contacts between discrete components and film conductors; 3) soldered or welded contacts between conducting films and module outputs; and 4) soldered contacts between module outputs and printed-circuit wiring. Three methods of module interconnection are considered: 1) all modules are interconnected through printed-circuit wiring; 2) part of the module interconnections are made through printed-circuit wiring and part directly by jumper wires; and 3) all connections are made by jumper wires. Families of curves are given by which a designer may readily see how the percentage of acceptable (in the statistical sense) modules will be affected by inclusion or exclusion of a specific number of contacts of a particular type. Using the same

Card 1/2 UDC: 621.316.8-181.4

L 10682-66

ACC NR: AP6000525 O

graph, the designer may select the optimum mode of assembly with reference to module interconnection. Finally, the authors derive expressions for the optimum (in the sense of maximum module exploitation) number of modules for each of the three methods of interconnection. Orig. art. has: 2 figures and 14 formulas. [BD]

SUB CODE: 09, 14/ SUBM DATE: 18Dec64/ ATD PRESS: 4167

HW

Card 2/2

KHOLOPOV, Yuriy Vasil'yevich; BRUK, M.V., red.

[Technology of ultrasonic welding] Tekhnologiia ul'tra-zvukovoi svarki. Leningrad, 1965. 24 p. (MIRA 18:5)

L 45613-65 EWT(d)/EPA(s)-2/EWT(m)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(b) EWP(l)/EWA(c) Pf-4 JD/HM

ACCESSION NR: AP5010978 UR/0286/65/000/007/0165/0165

29
B

AUTHOR: Kholopov, Yu. V.; Smirnov, A. S.

TITLE: Portable gun for ultrasonic two-side spot welding of metal. Class 49, No. 169987

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 165

TOPIC TAGS: ultrasonic welding, spot welding, ultrasonic welder

ABSTRACT: An Author Certificate has been issued for a portable ultrasonic welder for two-side spot welding of metals. The welder is made in the form of manually operated plane-parallel tongs which have a metallic contact point fixed at the tip of each jaw. The contact points are coaxial with each other and are perpendicular to the plane of the parts to be welded. A transducer is fitted on one of the jaws. Orig. art. has: 1 figure. [MS]

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut elektrosvarochnogo oborudovaniya (All-Union Scientific Research Institute of Electric Welding Equipment)

Card 1/1 Submitted 10Apr63

L 24504-66 EWT(d)/EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(l) JD/HM

ACC NR: AP6007716 SOURCE CODE: UR/0413/66/000/003/0118/0118

AUTHOR: Zaytsev, M. P.; Kholopov, Yu. V.; Smirnov, A. S. 36 B

ORG: none

TITLE: Ultrasonic seam-welding unit. Class 49, No. 178656 18 14 18

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 118

TOPIC TAGS: welding, ultrasonic welding, seam welding, ultrasonic welder

ABSTRACT: An Author Certificate has been issued for an ultrasonic seam welder equipped with a magnetostrictic converter and a disk device. To ensure continuous feeding of ultrasonic vibrations to the welding zone, the magnetostrictic converter is in the form of a ring with the disk mounted on top of it (see Fig. 1). [LD]

Card 1/2 UDC: 621.791.16.002.5

L 24504-66
ACC NR: AP6007716

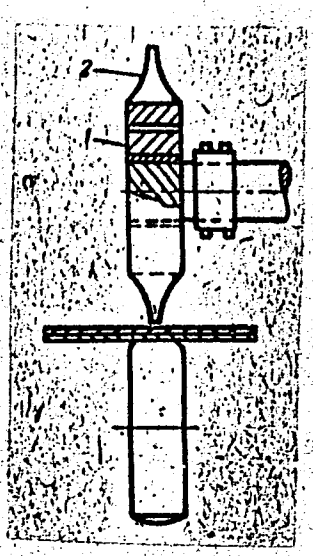


Fig. 1. Ultrasonic seam-welding unit. 1 - magnetostrictic converter; 2 - disk device

SUB CODE: 13/ SUBM DATE: 24Feb64/

Card 2/2. BLG

L 24537-66 EWT(d)/EWT(m)/EWP(v)/T/EWP(t)/EWP(z)/EWP(b)/EWP(l) JD/HW

ACC NR: AP6007717 SOURCE CODE: UR/0413/66/000/003/0118/0119

INVENTOR: Kholopov, Yu. V.; Smirnov, A. S.

ORG: none

TITLE: Device for ultrasonic seam welding. Class 49, No. 178657

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 118-119

TOPIC TAGS: seam welding, ultrasonic welding, ultrasonic seam welding, welder, ultrasonic seam welder

ABSTRACT: An Author Certificate has been issued for an ultrasonic seam welder with an active resonant tube as a working element. To speed up the welding process, the reflector is a passive resonant tube for applying pressure to the parts to be welded. [LD]

SUB CODE: 13/ SUBM DATE: 24Feb64/

Card 1/1 UDC: 621.791.16.002.5

ACC NR: AP6018010 (N) SOURCE CODE: UR/0413/66/000/010/0126/0126

INVENTORS: Zaytsev, M. P.; Kholopov, Yu. V.; Mukhachev, A. M.

ORG: none

TITLE: An instrument for ultrasound welding of metals. Class 49, No. 181966 [announced by All-Union Scientific Research Institute of Electric Welding Equipment (Vsesoyuznyy nauchno-issledovatel'skiy institut elektrosvarochnogo oborudovaniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 126

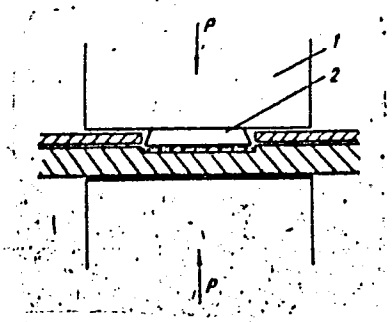
TOPIC TAGS: metal cutting, metal blade, metal cladding, welding, ultrasound welding

ABSTRACT: This Author Certificate presents an instrument for ultrasound welding of metals. The instrument contains a working tip (see Fig. 1). To increase the productivity in the process of cladding one metal with another, the working tip is provided with a cutting edge. This permits a detail to be simultaneously clad and cut out.

Card 1/2 UDC: 621.791.16.03

ACC NR: AP6018010

Fig. 1. 1 - working tip; 2 - cutting edge



Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 050ct64

Card 2/2

ACC NR: AP6035923 SOURCE CODE: UR/0413/66/000/020/0183/0183

INVENTOR: Zaytsev, M. P.; Kholopov, Yu. V.; Smirnov, A. S.

ORG: none

TITLE: Ultrasonic welding tool. Class 49, No. 187492

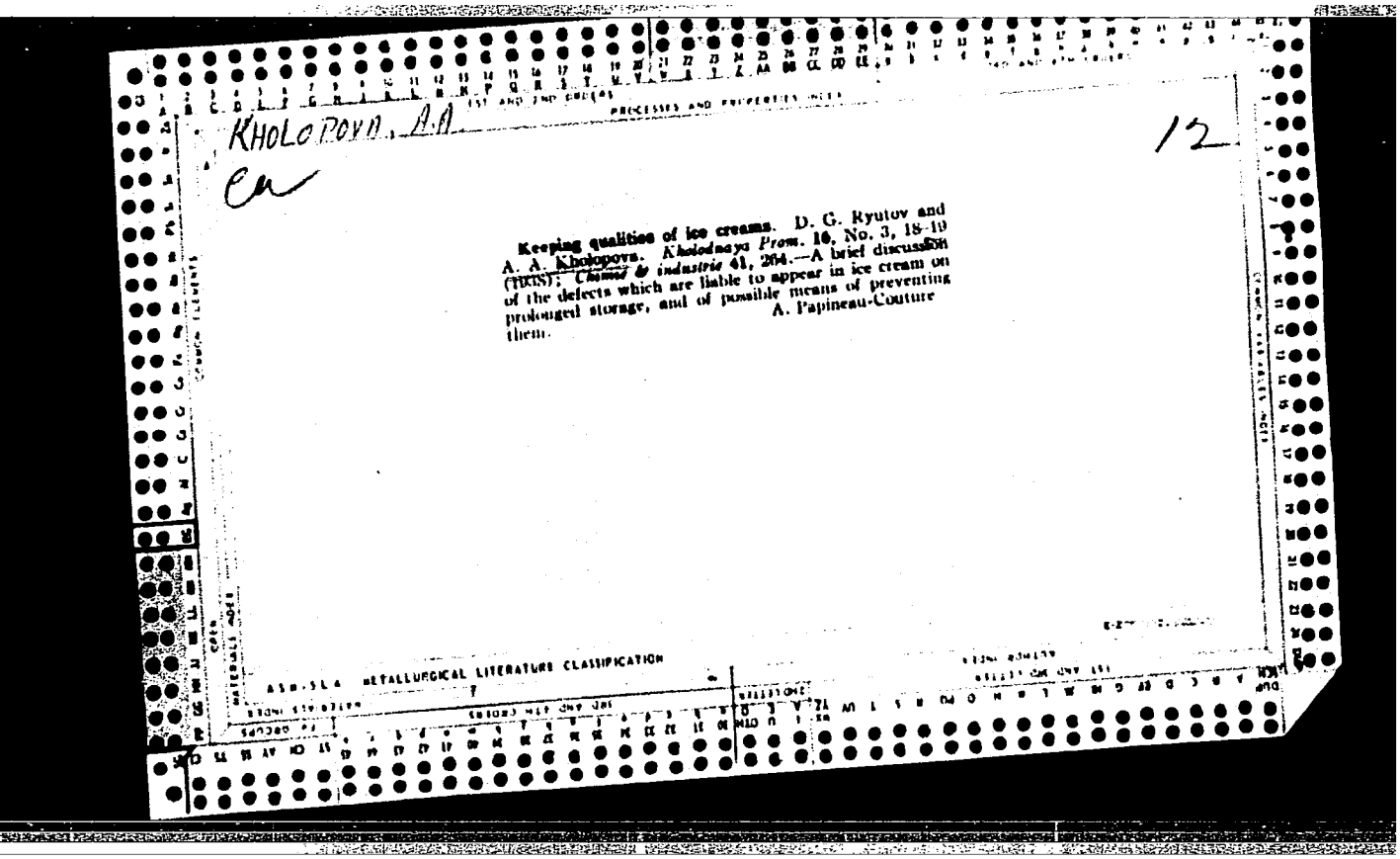
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 183

TOPIC TAGS: ultrasonic welding, welding ~~tool~~ EQUIPMENT

ABSTRACT: This Author Certificate introduces an ultrasonic welding tool which consists of a resonator bar and working tip. To improve weld quality the tip is made in the form of a truncated cone, the smaller base of which forms the supporting area of the tool. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 01Apr64/

Card 1/1 UDC: 621.791.16.03



KHOLODOV, A.A.

Ca

12

Keeping qualities of ice creams. D. G. Ryutov and A. A. Kholopova. *Kholodnaya Prom.* 10, No. 3, 18-19 (1935); *Chimie & industrie* 41, 204.—A brief discussion of the defects which are liable to appear in ice cream on prolonged storage, and of possible means of preventing them.
A. Papineau-Couture

CA KHOLOPOVA, A.

12

Changes in unripe cheese during freezing. M. Karamitskaya and A. Kholopova. *Molochnaya Prom.* 10, No. 12, 38-40(1949).—Freezing unripe cheese in all stages of ripening lowers the bacterial population and slows ripening by half, when −18° is the freezing temp. Cheese frozen during the early ripening state eventually ripens and its properties do not differ from normal. G. M. Kosolapoff

KHOLOPOVA, A.; BOCHAROVA, Z.; OLENEV, Yu.

Effect of cooling sweet butter immediately after processing upon its stability in storage. Khol.tekh. 30 no.4:35-40 O-D '53. (MLRA 7:3)

1. VNIKhI. (Cold storage) (Butter--Preservation)

A-U Sci Res Inst Cold Storage Ind.

ROSSOVSKIY, Leonid Sergeyevich; KHOLOPOVA, Aleksandra Andreyevna; RYUTOV, D.G., kand.tekhn.nauk, nauchnyy red.; TSIPERSON, I.L., red.; SOKOLOVA, N.N., tekhn.red.

[Cold storage of cheeses; a scientific report] Kholodil'noe khranenie syrov; nauchnoe soobshchenie. Moskva, Gos.izd-vo torg. lit-ry, 1959. 16 p. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kholodil'noy promyshlennosti imeni A.I.Mikoyana (VNIKhI) (for Rossovskiy, Kholopova).

(Cheese)

14(1) SOV/66-59-2-20/31

AUTHORS: Barulin, N., Kholopova, A.

TITLE: Refrigerating Plants of the Polish Peoples Republic (Kholodil'niki Pol'skoy Narodnoy Respubliki)

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 2, pp 62-67 (USSR)

ABSTRACT: The majority of cold storage plants have been built in Poland within the last 10 years; the Central Administration of the Refrigeration Industry controls at present 22 cold storage plants, which have a capacity of 3,000 and 7,500 tons each. Freezing and storing rooms for fish are separated from the rest of the plant. Elevators are of 1,200 and 1,500 kg capacity. Freezers are of the tunnel type and freezing at -30°C lasts 16 hours. The application of air channels and fans in storage rooms for frozen food keeps products in a frozen state. Compressors are of the single and double stage types, horizontal as well as vertical ones. There exists a system of remote level indication and remote temperature measuring. Newly built cold storage plants will be equipped with automatic level and temperature control. Operation of compressors is not automated. Constant temperature in the storage rooms is maintained by means of thermostats. Some cold storage

Card 1/3

plants are equipped for deep freezing of berries and vegetables, others for producing ice at a rate of 180 tons per day. The most modern cold storage plant is located in Gdan_sk having a capacity of 7,000 tons. The ammonium installation ensures 3 different evaporation temperatures: -40° for freezing, -27° for keeping products frozen and -10° for general storage. Of the 8 vertical compressors installed in the Gdan_sk cold storage plant 5 are single stage of the S2x200-type, and 3 of the S4-225-type, which are acting as booster compressors. In the same department are also placed a telethermometric station and logometers for simultaneous recording of temperatures in 6 storage rooms. In accordance with technical documentation elaborated by TsBKhA and KhU (Central Bureau of Chemical Apparatus and Refrigerating Installations) piston type compressors for ammonium are being built in Poland also for chlorous methyl and Freon-12; those mostly employed are single and double stage vertical S-type compressors with 320 to 600 rpm, operating on ammonium.

Card 2/3 TsBKhA and KhU have developed a scale of V, W and VV-shaped compressors

operating on Freon-12 and ammonium which have a cold producing capacity ranging from 2,800 to 160,000 standard kcal/hr at 960 rpm. Oil separators with ceramic rings ensure high grade purification of vapors of cooling agent.
There are 1 photo, 1 diagram and 4 sets of diagrams.

14(1) SOV/66-59-4-11/28

AUTHORS: Rossovskiy, L., and Kholopova, A., Engineers

TITLE: On Storage Conditions for Cheese in Refrigerated Stores

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 4, pp 46-48 (USSR)

ABSTRACT: The article deals with experiments conducted by VNIKhI in 1945 and 1957 for the purpose of determining optimum conditions for storing cheese in refrigerated stores. Results of experiments have shown that the quality of hard kinds of ripe cheese is better preserved in sub-zero (Centigrade) temperatures (from -2° to -5°C) than in temperatures above 0°C, reducing drying and shrinkage to a minimum and eliminating periodical treatment if stored at higher temperatures. The relative humidity of the air should be around 85-90%. In the experiments participated N.V. Maradulina and Ye.L. Moiseyeva of VNIKhI.

Card 1/2

On Storage Conditions for Cheese in Refrigerated Stores SOV/66-59-4-11/28

There are two tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut kholodil'noy promyshlennosti (All-Union Scientific Research Institute of Refrigeration Industry)

Card 2/2

ALEKSEYEV, P.A., kand.tekhn.nauk; NIKITIN, V.A., kand.sel'skokhoz.nauk; ROSSOVSKIY, L.S., inzh.; Prinimali uchastiye: KHOLOPOVA, A.A.; VYSOTSKAYA, O.M., starshiy nauchnyy sotrudnik; LEBEDEVA, M.B., starshiy nauchnyy sotrudnik; ZHAROVA, K.F., tekhnik; PAVLOVA, N.A., tekhnik

Experimental rail transportation of apricots and grapes. Khol.tekh. 39 no.6:46-50 N-D '62. (MIRA 15:12)
(Refrigerator cars) (Fruit--Transportation)

BOBKOV, V.A.; DANILOV, R.L.; DRACHEVA, T.A.; NOSKOVA, G.L.; OLENEV, Yu.A.; KHOLOPOVA, A.A.; SHELAPUTIN, V.I.; RYUTOV, D.G., red.; BYKOVA, M.G., red.; OKOLELOVA, Z.P., tekhn.red.

[Use of refrigeration for the preservation of agricultural products] Primenenie kholoda dlia khraneniia sel'skokhoziaistvennykh produktov. Moskva, Sel'khozizdat, 1963. 53 p. (MIRA 16:12)

1. Nauchnyye sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta kholodil'noy promyshlennosti (for all except Bykova, Okolelova).

(Farm produce--Storage)

PISKAREV, A.I.; KHOLOPOVA, A.A.; SHELAPUTIN, V.I.; NOSKOVA, G.L.; ALEKSEYEV, P.A.; DRACHEVA, T.A.; OLENEV, Yu.A.; PAVLOVA, I.A.; SELIVANOV, V.A.; VINOGRADOV, S.V.; MIROLYUBOV, P.A.; ROVENSKIY, A.I.; SKOROKHODOV, A.A.; RYUTOV, D.G., kand. tekhn. nauk, red.; CHICHKOV, N.V., red.; MEDRISH, D.M., tekhn. red.

[Manual on the operation of cold storage warehouses] Spravochnik po ekspluatatsii kholodil'nykh skladov. Moskva, Gostorgizdat, 1963. 175 p. (MIRA 16:7)

1. Sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta kholodil'noy promyshlennosti (for Piskarev, Kholopova, Shelaputin, Noskova, Alekseyev, Dracheva, Olenev, Pavlova). 2. Rosmyasorybtorg Ministerstva torgovli RSFSR (for Selivanov, Vinogradov, Mirolyubov, Rovenskiy). 3. Gosudarstvennyy planovoy komitet Soveta Ministrov SSSR (for Skorokhodov).
(Cold storage warehouses)

KHOLOPOVA, L.I., Cand Tech Sci--(diss) "~~Obtaining~~ Production of non-ferrous cement [redacted] by ~~a~~ synthetic ~~process~~ means." Len, 1958. 17 pp (Min of Higher Education USSR. Len Order of Labor Red Banner Construction Engineering Inst), 150 copies (KL,44-58,123)

BOZHENOV, P.I., doktor tekhn. nauk; KHOLOPOVA, L.I., kand. tekhn. nauk

Colored clinker portland cement. TSement 31 no. 6:9-10 N-D '65. (MIRA 18:12)

1. Leningradskiy inzhenerno-stroitel'nyy institut i Leningradskiy zonal'nyy nauchno-issledovatel'skiy institut eksperimental'nogo proyektirovaniya.

BOZHENOV, P. I.; KHOLOPOVA, L. I.

New method for making colored cements. TSement 26 no.4:15-20 Jl-Ag '60. (MIRA 13:11)

(Cement)

BOZHENOV, P.I., doktor tekhn. nauk, prof.; KAVALEROVA, V.I.; SAL'NIKOVA, V.S.; SUVOROVA, G.F.; KHOLOPOVA, L.I.; ROTENBERG, A.S., red.izd-va; KISELEV, M.V., inzh., nauchn. red.; PUL'KINA, Ye.A., tekhn. red.

[Autoclave-hardened cements and products made from them] TSementy avtoklavnogo tverdeniia i izdeliia na ikh osnove. Leningrad, Gosstroiizdat, 1963. 200 p. (MIRA 17:1)

KHOLOMOVA, Lyudmila Irodionovna; BOZHENOV, P.I., doktor tekhn. nauk, prof., nauchn. red.

[Corrosion of reinforcement in autoclaved cellular concrete and methods of preventing it] Korroziia armatury v avtoklavnykh iacheistykh betonakh i sposoby ee preduprezhdeniia. Leningrad, Stroiizdat, 1965. 80 p. (MIRA 18:6)

KOLOPOVA, L.S. and PROSKURYAKOV, I.I.

REciprocal action of ascorbic acid and vegetal amylases of various origin.

Biokimiya. Vol. 17, No. 5, pp 578, 1952.

YEFREMOV, Yu.K.; MOGILEVKINA, L.N.; KHOLOPOVA, N.T.

Report on the activities of the Moscow Branch of the Geographical Society of the U.S.S.R. for 1960. Vop. geog. no.60:157-191 '63. (MIRA 16:6)

(Geographical Societies)

YEFREMOV, Yu.K., KHOLOPOVA, N.T.

Report on the activity of the Moscow Branch of the Geographical Society of the U.S.S.R. in 1963. Vop geog. no.68:204-215 '65.
(MIRA 18:12)