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CLASSIFICATION OF BUILDAU OF STADDARSE FUBLIC TIONS

A detailed discussion of the classes of publications of the Bureau of Standards together with a cross indexed list of all publications is given in Gircular of the Bureau of Standards No. 24 with supplements. The letter or letters preceding the number of the paper indicate the class to thich it belongs. The sigmificance of letters appearing in the list is as follows:

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2 A Contraction of the second s

C = Circulars of the Bureau of Standards

LC = Letter Circulars of the Bureau of Standards

M = Miscellaneous Fublications of the Bureau of Standards

R = Simplified Practice Recommendations of the Bureau of Standards

- S = Scientific Papers of the Bureau of Standards
- T = Technologic Papers of the Bureau of Standards
- RP = Research Papers of the Bureau of Standards (Superseding classes S and T, starting in July 1928 and being papers originally published in the Bureau of Standards Journal of Research and available in the form of reprints.)

TO OBTAIN GOVERNMENT PUBLICATIONS

The Eureau of Standards publications, if not out of print and excepting Letter Circulars, may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D.C., at the prices stated (stamps are not accepted). Letter Circulars may be obtained free of charge from the Bureau of Standards, Washington, D.C., as long as available.

PUBLICATIONS OUT OF PRINT

Publications marked with an asterisk (*) are out of print but may be consulted at the leading libraries. A list of Government depository reference libraries is given in the Supplement to C 24, Nov., 1930, pp. 14-21.

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TO OBTAIN ARTICLES APPEARING IN OUTSIDE PUBLICATIONS

Articles by members of the Staff of the Bureau of Standards appearing in other than Government publications are listed separately. These publications may usually be found in the larger libraries or in some cases, obtained from the publishers. Reprints may, in a few cases, be obtained by applying directly to the authors.

LIST OF FEDERAL SPECIFICATIONS FOR PHOTOGRAPHIC MATURIALS

The following list is taken from the complete list of all Federal Specifications given in the Federal Standard Stock Catalogue, Section IV, revised to July 1, 1931. Copies of Federal Specifications may be purchased from the Superintendent of Documents, Washington, D.C.

Specification Symbol	Title of Specification	Original F.S.B.No
G-M-111	Lantern slide mats	-
G-P-641	Paper negative preservers	-
0-M-571	Mono-Methyl-Paramincphenol Sulphate (supersedes U-M-191)	421
0S-581	Sodium-Carbonate; granular (monohydrate crystals)	432
0-S-606	Sodium Sulphite; anhydrous (for photography)	586
UU-F-81	Blueprint paper, permanent- record (sensitized and un- sensitized). (Supersedes UU-P-83)	179
UU- P-86	Elueprint paper, semi-permanent-record (sensitized and unsensitized) (supersedes UU-P-88)	- 180

Specification Symbol	Title of Specification	Original F.S.B.No.
UU-P-91	Blueprint paper, temporary- record (sensitized and un- sensitized (supersedes UU- P-93)	181
UU-F-141	Brownprint paper, permanent- record (sensitized and un- sensitized (supersedes UU- P-143)	182
UU-P-416	Photographic black-line paper	-
UU-P-418	Photographic negative paper	-

CHRONOLOGICAL LIST OF REFERENCES

Consecutive reference numbers have been assigned to the references in the list of outside publications in order to facilitate the use of the author and subject indices given at the end of this list.

1. BUREAU OF STANDARDS PUBLICATIONS

B. of S. No.	Title of Paper	Authors	Date	Price
	Luminous Efficiency of the Firefly	Herbert E. Ives and W.W. Coblentz	8-09	5¢
S312	Wavelength Measure- ments in Spectra from 5600A to 9600A	W.F. Meggers	1-16-18	10¢
S318	The Application of Dicyanin to the Photo- graphy of Stellar Spectra	Paul W. Merrill	4-13-18	10¢
S385	A New Microphotometer for Photographic Den- sities	V.F. Meggers and Paul D. Foote	€-30-20	5¢

		5.		
P. of S. No.	Title of Paper	Luthors	Date	Price
5392	A Photographic Method of Detecting Changes in a Complicated Group of Objects	M.H. Stillman	7-31-20	5¢
S409	A New Method for the Measurement of Photo- graphic Filter Fact- ors	Raymond Davis	2-5-21	5¢
S422*	Studies in Color Sensitive Photo- graphic Plates and Methods of Sensi- tizing by Bathing	F.M.Talters, Jr. and Raymond Davis	11-15-21	. 15¢
followin availabl	Much of the material ing Circular of the Burea	ede -		
-	Color Sensitive Photographic Plates	(unsigned)	11-6-19	
S439*	Sensitometry of Pho- tographic Emulsions and a Survey of the Characteristics of Plates and Films of American Manufacture	Raymond Davis nd and F.M. ^{vy} alters, Jr.	5-5-22	35¢
	Much of the material in ablished in the following f Standards which are n	lg Photographic Cir	culars of	
l	Testing of Photo- graphic Emulsions and a Description of the Apparatus used in Photo- graphic Sensitom- ctry	Raymond Davis	1918	
2	in itlas of Photo- graphic Emulsions	Raymond Davis and	9-3-20	(Confi- dential)

F.M.Walters, Jr.

T217 Photomicrography of R.E. Lofton 8-2-22 Paper Fibres

5¢

B. of S.				
No.	Title of Paper	Luthors	Date	Price
S454	Action of Charred Paper on the Photo- graphic Plate and a Method of Decipher- ing Charred Records	Raymond Davis	10-18-22	5¢
T255	A Camora for Studying Projectiles in Flight	H.L. Curtis, W.H. Wadleigh and H. Sellman	3-19-24	10¢
S494	Aberrations of Long Focus Anastigmatic Photographic Object- ives	L.H. Bonnett	10-16-24	20¢
S508	Spark Photography and Its Application to Some Problems of Ball- istics	Phillip P. Quaylo	6-15-25	20¢
S511	A Nonintermittent Sensitometer (Time- Scale Exposure Mach- inc) with Clock-Con- tbolled Motor Drive	Raymond Davis	8-20-25	15¢
S517	A Special Camera for Photographing Cylin- drical Surfaces	Raymond Davis	12-5-25	lo¢
S528	Experimental Study of the Relation be- tween Intermittent and Nonintermittent Sector-Wheel Photo- graphic Exposures	Raymond Davis	5-18-26	20¢
RP20	Sensitization of Pho- tographic Emulsions by Colloidal Materials	Burt H. Carroll and Donald Hubbard	10-28	10¢
R98	Photographic Papor		1929	lO¢
RP134	The Effect of Light on Silver Chloride in Chemical Analyses	G.E.F. Lundoll and J.I. Hoffman	1-30	5¢

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B. of S. No.	Title of Paper	uthors	Date	Prico
RP173	Spectral Sensitiza- tion of Photograph- ic Emulsions (Notes on Bathing with Finacyanol-Finaflav- ol Mixtures)	Burt H. Carroll and Donald Hubbard	5-30	5¢
RP163	A Comparison of Re- solving Power and Sensitivity of Pho- tographic Plates with Varying Develop- ment		7-30	5¢
Mll4	Filters for the Re- production of Sun- light and Daylight and the Determina- tion of Color Temperature	Raymond Davis End K.S. Gibson	1-31	45¢
RP340	The Photographic Emulsion- After Ripening	Burt H. Carroll and Donald Hubbard	8-31	lo¢
RP355	An Experimental Study of Several Methods of Represent- ing Photographic Sensitivity	and	9-31	lo¢
RP365	A Correlated Color Temperature for IL- luminants	Raymond Davis	10-31	lo¢
RP374	The Relative Spec- tral Energy Distri- bution and Correlat- ed Color Temperature of the N.P.L. White- Light Standard	and	11-31 .	5¢
RP376	The Photographic Emulsion: The Silver Mon-Gelatin Equilib- rium	and	11-31	5¢
RP378	Variation of Photo- graphic Sensitivity with Different Light Sources	and	11-31	5¢

B. of S. No.	Title of Paper	Authors	Dato	Prico
RP427	The Optical Require- ments of Airplane Maping	I.C. Gardner	4-32	

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2. OUTSIDE PUBLICATIONS.

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Rcf No.	Name of Publication	Title of Paper	luthors	Date	Vol.
1	Physical Review (abstract of - lecture)	Optical and Pho- tographic Methods for the Detection of Invisible Writing	and		<u>14</u> p.188
2	Journal of the Franklin Institute	Hypersensitizing Commercial Pan- chromatic Plates	S.M. Burka	1-20	<u>189</u> p.25
3	Journal of the Opti- cal Society of America and Review of Scientific In- struments (reprint of S385)	A New Micropho- tometer for Pho- tographic Densi- ties	and	1-20	4,1 p.24
4	Journal of the Op- tical Society of America and Review of Scientific In- struments	Dyes for Photo- graphic Sensi- tizing	W.F.Meggers and E.J.Stimson	5-20	4,3 p.91
5	Journal of the Op- tical Society of America and Review of Scientific In- struments (reprinted as S409)	A New Method for Measurement of Photographic Fil- ter Factors	Raymond Davi	- s 9-20	4,5 p.300
6	The Photographic Journal (reprint of S409)	A New Method for Measurement of Photographic Fil- ter Factors	Rcymond Davis	4-21	<u>61</u> p.168
7	Lofax Handbock (abstract of S422)	Color Sonsitive Photographic Platos and Mothods of Sonsitizing by Bathing	F.M.Walters, And Raymond Davi s	-Ji: 9-21 .s	Dewey 722 Lefax 00
8	The British Journal of Photography (reprint of S422)	Studies in Color Sensitizing by Bathing	F.M.Walters, and 7 Raymond Davi	(Tr 12 -14-22 .s	<u>69</u> p.416

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RCI. No.	Name of Publication	Title of Paper	Luthors	Dato	Vol.
ô	Journal of the Optical Society of America and Review of Scientific Instruments	Note on the Shrinkago of Photographic Films	H.L. Curtis	3-23	7,3 p.275
10	The British Journal of Photography (reprint of S439)	Sensitometry of Photographic Emulsions and a Survey of the Characteristics of Plates and Films of Ameri- can Manufacture	Raymond Davis and F.M. Taltors, Jr.	8-17-23 8-24-23 8-31-23 9-7-23 4-6-23	70 p.50% p.5%5 p.539 p.554 p.205
11	The British Journal of Photography (reprint of S454)	Action of Charred Paper on the Pho- tographic Plate and a Method of Deciphering Char- red Records	Raymond Davis	4-6-23	70 p.205
12	Journal of Physicall Chemistry	Solarization and Photographic Re- versal by Desen- sitizers	B.H. Carroll	6-25	<u>29</u> p.693
13	Science et Industries Photographi- ques (abstract of 12)	Solarization and Photographic Rev- ersal by Desensi- tizers	B.H. Carroll	8-25	5,8 p.139
14		∴ Nonintermittent Sensitometer	Raymond Davis	12-4-25	<u>131</u> p.354
15	Journal of Physical Chemistry	The Photochemical Oxidation of Leu- co Bases	B.H. Carroll	1-26	<u>30</u> p.130

Ref. No.	Name of Publication	Title of Paper	Authors	Date	Vol.
16	Science et Industries Photograph- iques (translation of S511)	Sensitometer Non- Intermittent a Moteur Controle par Pendule	Raymond Davis	2-26	<u>6</u> ,2 p.24
17	Journal of the Optical Society of America and Review of Scientific In- struments	Camera for Pho- tographing the In- terior of a Rifle Barrel	and	2-26	<u>12,2</u> p.159
18	Journal of the Optical Society of America and Review of Scientific In- struments	The Unit of Pho- tographic Inten- sity (Report of O.S.A. Committee)	L.A. Jones, Chairman	6-26	<u>12</u> ,6 p.567
19	Science et Industrics Photograph- iques (translation (516517)	Appariel pour la Photographic des Surfaces Cylind- riques	Raymond Davis	6-26	6,6 p.115
20	Journal of the Optical Society of Imerica and Review of Scientific In- struments	Sensitization for Tho Entire Vis- ible Spectrum	B.H. Carroll	7-26	<u>13</u> ,1 p.35
21	Technische Rundschau (Translation of S517)	Einc Spezialkam- era Zum Photo- graphicren von Zjlinderflachen	Raymond Davis Trans. by Dr. Alfred Grad- onwitz	8-18-26	<u>33</u> ,32 p.297
22	Science et Industries Photograph- iques (translation of S528)	Influence des Poses Intermit- tontes ŝur l'ac- tion Photograph- iques	Raymond Davis	10-25	<u>6,</u> 10 p.179

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23	Science et Industries Photograph- iques (ábstract of 20)	Sensitization for the Entire Visible Spectrum	B.H. Carroll	10-26	<u>6</u> ,10 p.187
24	Journal of the Optical Society of America and Review of Scientific Instruments (abstract of lecture)	Reproducible Liquid Filters for the Pro- duction of "Thite Light"	Raymond Davis and K.S. Gibson	2-27	<u>14</u> ,2 p.135
25	Journal of the Optical Society of Imerica and Review of Scientific Instruments	The Distortion of Some Typical Photographic Objectives	л.H. Bennett	3-27	<u>14</u> ,3 p.235
26	Journal of the Optical Society of .merica and Review of Scientific Instruments	The Compensation of Distortion in Objectives for Airplane Photo- graphy	I.C. Gardner and ∴.H. Bonnett	3-27	<u>14</u> ,3 p.245
27		Filtres Colorcd pour "Lumiere Blanche"	Raymond Davis and K.S. Gibson	5-27	7,5 p.91
83	Fhysical Re- view (abstract of lecture)	Reproducible Liquid Filters for the Deter- mination of the Color Tempera- ture of Incan- descent Lamps	Raymond Davis and K.S. Gibson	6-27	<u>29</u> ,2 p.916

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NO.	Fublication	Title of Paper	luthors	Date	Vol.
29	Journal of Physical Chomistry	The Photographic Tmulsion4. The Comparison of Emulsions Made with Different Bromides	B.M. Carroll and Donald Hubbard		<u>31</u> p.906
30	Science et Industries Fhotograph- iques (abstract of 29)	The Photographic Emulsion I. The Comparison of Emulsions Made With Different Bromides	B.H. Carroll ánd Donald Hubbard	8-27	7 p.146
31	Journal of the Optical Society of America and Review of Scientific Instruments (abstract of of locture)	Filters for the Reproduction of Sunlight and the Determination of Color Tempera- ture.	Raymond Davis and K.S. Gibson	5-28	<u>16,5</u> p.33:
32		The Unit of Photo- graphic Intensity- Report of the C.S. A. Committee on the Unit of Photo- graphic Intensity		7-28	p.152
33	Proc. 7th Int. Cong. Phot., Londón	Artificial Sun- light for Photo- graphic Sensi- tometry	Raymond Davis and K.S. Gibson	7-28	p.161
34	Industries	Lumiere Solaire Artificielle pour Sensitometrie	anđ	9-28	8,9 p.158
35	al of Fhotogra	Sensitization of Emulsions by Col- loid Materials.	and		p.72

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36	Transactions of the Society of Motion Pic- ture Engineers	Irtificial Sunlight for Photographic Scnsitometry	Raymond Davis 1928 and K.S. Gibson	<u>12,33</u> p.225
37	Optical Society of America and Review of Scien- tific Instru- ments		L.A. Jones, 3-29 Chairman	<u>18,3</u> p.162
38	Optical Society	Methods for Deter- mining the Color of Sunlight and Daylight	K.S. Gibson 6-29 and Raymond Davis	<u>18,6</u> p.442
39	Photograph- ische Indust- rie (translation of RF20)	Sensitization of Emulsions by Col- loid Materials	B.H. Carroll 1929 and Donald Hubbard	<u>27</u> p.321
40	Radiological	Safeguarding the Storage of Photo- graphic, Motion Ficture, and X- ray Films	C.R. Brown 5-30	<u>14</u> p.454
41	British Journal of Photography	Sonsitizing with Pinacyanol-Pina- flavol Mixtures	B.H. Carroll 7-18-30 and Donald Hubbard	77 p.429
42	Science et In- dustries Photo- graphiques (abstract of RF183)	A Comparison of Resolving Power and Sensitivity of Thetographic llates with vary- ing Development	B.H. Carroll 11-30 and (2) Donald Hubbard	<u>1</u> ,11 p.412

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43	Science et Industries Thotograph- iques (abstract of M114)	Filteres pour la Reproduction de la Lumicre Sol- aire (ctalon Sensitometrique)	Raymond Davis and K.S. Gibson	5-31 (2)	2,5 p.167
44	Journal of the Optical Society of -merica	A Mote on the "Speed of Photo- graphic Emulsions	Raymond Davis and G.K. Nceland	7-31	<u>21,7</u> p.41(
45	Science ct Industries Fhotograph- iques (translation of 44)	Expression de la Sensibilite des Emulsions Pheto- graphicues	Raymond Davis and G.K. Neeland	9-31 (2)	2,9 p.354
46	Optical Society	The Photographic yUnit of Intensity (Report of C.S Committee)	L.S. Gibson, Chairman	10-31	<u>2</u> ,10 <u>p.654</u>
47	Science et Industries Photograph- iques (abstract of RP340)	The Photographic Tmulsion- After Ripening	B.H. Carroll and Donald Hubbard	•) 2 p.444
48	Journal of Chemical Education	The Preparation of Photographic Umulsions	B.H. Carroll	12-31	8,12 p.234
49	blad	Filtors for the Reproduction of Sunlight and Day- light and the Do- termination of Color Temperature	Raymond Davis and K.S. Gibson	1-9-32	
50	Science et Industries Thotograph- iques (translation of RF355)	Ntude exteriment- ale de quelques Nethodes d'ex- pression de la sensibilite	Raymond Davis and G.H. Neeland	1-32 (2)	<u>3</u> ,1

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51	Kongressband, 8 Internation- aler Photo- graphischer Kongress (translation of RP355	Experimentelle Unter- suchung Verschiedener Methoden, die Photo- graphische Empfind- lichkeit Darzustellen	Raymond Davis and G.K. Neeland
52	Journal of the Society of Motion Picture Engineers	The Mechanism of Hypersensitization	B.H. Carroll and Donald Hubbard
53	Journal of the Society of Motion Ficture Engineers (rewrite of RP355)	Variation of Photo- graphic Sensitivity with Development Time	Raymond Davis and G.K. Nccland
54	Journal of the Society of Motion licture Engineers (reprint of RP378)	Variation of Photo- graphic Sensitivity with Different Light Sources	Raymond Davis and G.K. Necland

SUBJECT INDEX

In the following index the Bureau of Standards Publications are indicated by their official numbers. Papers appearing in other than Government publications are designated by the reference numbers given in the preceding list of Outside Publications. These numbers are inclosed in parenthesis to distinguish them from Government publications.

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ipparatus:

Abberations of long focus lenses S494 Camera for photographing bullets in flight T255 Camera for photographing the interior or fifle barrels (17) Camera for photographing cylindrical surfaces S517, (19),(21) Distortion of photographic objectives (25) Compensation for distortion in airplane objectives (26) Optical requirements for airplane mapping RP427

ipplications:

Thotographic method of spectral energy measurement S132 Photographic method for detection of invisible writing (1) Photographic method of detecting changes in a complicated object S392 Infra-red spectroscopy S312, S318

Photomicrography: Of paper fibres T217

Simplified Practice Recommendations: Photographic Paper Sizes R98

Technology:

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ipparatus: Densitometer S385, (3) For measurement of filter factors S409, (5), (6) Sensitometer S511, (14), (16) Light Filtors: For reproduction of sunlight and daylight Mll4, (33), (34), (36 (43), (4)Miscellancous RP365, RP374, (24), (27), (28), (31), (38) Measurements: Intermittency effect S528, (22) Sonsitivity; Methods of measurement of RP355, (50), (51), (53) Tests of S439, (10) Change in, with different light sources RP378, (54) Spectral sensitization S422, RF173, (2), (4), (7), (8), (15), (20), (23), (4) Miscellaneous: Effect of light on silver chloride in analyses RP134 Reversal by desensitizing dyes (12), (13) Standardization: (see also under Light Filters) Unit of photographic intensity, report of committee on (18), (32), (37), (46)

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