Publications received at Editor's Office, Nov. 19- | ELECTRICAL TESTING BUREAU,

ALASKA, Report of an Expedition to the Copper, Tananá, and Koyukuk Rivers in the Territory of, in the Year 1885, made by Lieut. H. T. Allen. Washington, Government. 172 p. 89.

ALLEN, I. F. The Characeæ of America. Part I. Introduction, Morphology, and Classification. New York, to E. 36th St. 64 p. 89.

BARTON, S. The Battle of the Swash and the Capture of Canada. New York, C. T. Dillingham. 131 p. 16°. 50 cents.

50 cents.

BAUER, G. Spelin. A Universal Language. Tr. by
Charles T. Strauss. New York, Charles T. Strauss.

So cents.

BAUER, G. Spelin. A Universal Language. Tr. by Charles T. Strauss. New York, Charles T. Strauss. 28 p. 12°.

BURT, B. C. A Brief History of Greek Philosophy. Boston, Ginn. 296 p. 12°. \$1.25.

CARRINGTON, H. B. Patriotic Reader. Philadelphia, Lippincott. 595 p. 12°. \$1 20.

CLARKE, J. M. Report on Bones of Mastodon or Elephas, found in Association with Human Relics in the village of Attica, Wyoming Co., N.Y. Albany, J. B. Lyon, Pr. 7 p. 8°.

CORY, C. B. Hypnotism or Mesmerism Boston, Mudge. 61 p. 12°

DAVENPORT, R. B. The Death-Blow to Spiritualism. New York, G. W. Dillingham. 247 p. 16°. 50 cents. ERDE, Die. Lief. 36-40. Leipzig, Hartleben. f°.

ETHERIDGE, R. Fossils of the British Islands. Vol. I. Palæozoic. Oxford, Clarendon Pr. 468 p. 4°.

FISKE, J. The Critical Period of American History, 1783-1789. Boston and New York, Houghton, Mifflin, & Co. 368 p. 12°. \$2.

GREELY, A. W. American Weather. New York, Dodd, Mead, & Co. 286 p. 12°.

—Report on the Proceedings of the United States Expedition to Lady Franklin Bay, Grinnell Land. Vol. I. Washington, Government. 543 p. 4°.

HAZEN, H. A. Hand-Book of Meteorological Tables. Washington, The Author. 127 p. 8°.

HOLBROOK, M. L. Eating for Strength; or, Food and Diet in their Relation to Health and Work. New York, M. L. Holbrook & Co. 236 p. 12°.

KAY, D. Memory: What it is and How to Improve it. (Internat. Educ. Ser., Vol. VIII.) New York, Appleton. 334 p. 16°.

MACOUN, J. Catalogue of Canadian Plants. Part IV. Endogens. Montreal Dawson Bros. 248 p. 8°.

MORAL and Scientific Companion. Vol I. No. 1. Florence, Arizona. Eugene Arthur Browne. 4 p. 1°. 50 cents per vear.

NUTIALL. Zelia Standard or Head-Dress? (Archæol. and Ethn I. Papers of Peab dy Mus., Harv. Univ., Vol. I. No. 1) Cambridge, Peabody Mus. 52 p. 8°.

MORAL and Scientific Companion. Vol I. No. 1. Florence, Arizona. Eugene Arthur Browne. 4 p. 1°. 50 cents per vear.

NUTIALL. Zelia Standard or Head-Dress? (Archæol. and Ethn I. Papers of Peab dy Mus., Harv. Univ., Vol. I. No. 1) Cambridge, Peabod

and VII London and New York Longmans, Green, & Co 128 p. 8°.

KOGERS, J E. T. The Story of Holland. New York, Putnam. 388 p. 12°. \$1.50.

Serviss, G. P. Astronomy with an Opera-Glass. New York, Appleton. 154 p. 8°. \$1.50.

WALSH, W. S Paradoxes of a Philistine Philadelphia. Lippincott. 192 p. 16°. \$1

WRITER'S Handbook, the. Philadelphia, Lippincott. 148 p. 12°. \$2 50.

NEW MAGAZINE - THE SWISS
Devoted to spreading a love of CROSS
by HARLAN H. BALLARD, President of the Agassiz Association, and succeeding M. Nich. 18 as the official magazine of that body 81.50 a year. 8 symple copy 10 cents, or 25 cents for triel subscription for the Agassiz Association.

Mention this paper. 47 Lafayette Place, New York.

Schools.

CONNECTICUT. NEW HAVEN,

MRS. CADY'S SCHOOL FOR YOUNG LADIES.

Prepar's for Smith and Wellesley, and admits to

Vassar by (ertificate. Circulars. Early application

New York, Tarrytown-on-the-Hudson. AT MOUNT HOPE LADIES SEMINARY, \$300 pays board and tuitions per school year. Music and art only extras. Best advantages with home care

Opens Sept. 26th. ROBT. C. FLACK, A.M., Principal.

TEXAS, AUSTIN

SCHOOL OF GEOLOGY, UNIVERSITY OF
TEXAS. Conveni n ly situated n a remarkably diversified field for original investigation. Offers special facilities to specialists and post-graduate students. Educational series collected and exchanged. For circulars address Proctor of University, Austin, Tex.

VERMONT, BURLINGTON.

VERMONT EPISCOPAL INSTITUTE. Boarding School for Boys. Prep res for College or Business. Military drill. Terms moderate. Fifty-seventh half-year opens September 3, 1888. Send for catalgue.

H. H. ROSS, A.M., Principal.

Johns Hopkins University, Baltimore, Md.

Resistance Coils and Boxes Compared. Am meters and Volt meters calibrated. Condensers standardized.

Primary and Secondary Batteries Tested.

Efficiency of Dynamos and Motors Determined.

Insulation of Cables and Wires Tested. Etc., Etc.

Circulars describing Methods Used, Prices, Etc., sent on Application.

Address as above.

Subscription Agents Wanted.

A favorable arrangement will be made with a responsible person in every community to solicit and to receive subscriptions for the following first-class publications: THE ART INTER-CHANGE; THE CHRISTIAN UNION: THE CRITIC; THE FORUM; GOOD HOUSEKEEPING; PUBLIC OPINION and SCIENCE. This list includes a standard periodical of every class, and they appeal to every taste of educated readers. An agency for these will afford light and profitable employment for responsible persons.

READING CLUBS .- Those who belong to READING CLUBS or contemplate forming them would do well to address us.

For terms address, with references:

THE FORUM PUBLISHING CO.,

253 Fifth Ave., New York.

We cordially endorse this scheme, and will add very liberal commissions for all willing to canvass for Swiss Cross subscriptions. N. D. C. Hodges, 47 Lafayette Place, New York.

A TEMPORARY BINDER

for Science is now ready, and will be mailed postpaid on receipt of price.



- - 50 cents. Cloth Half Morocco -75 cents.

This binder is strong, durable and elegant, has gilt side-title, and allows the opening of the pages perfectly flat. Any number can be taken out or replaced without disturbing the others, and the papers are not mutilated for subsequent permanent binding. Filed in this binder, Science is always convenient for reference. ing. Filed in this binder, Screen always convenient for reference

N. D. C. HODGES,

47 Lafayette Place, New York.



PETER COOPER'S GLUE.

PETER COOPER'S GLUE.

Prepared in liquid form by the N.V.

Liquid Glue & Adhesive Co. The
long and well-known reputation of this
glue for its strong adhesive properties
requires no recommendation. It is the
glue your furniture is glued with, and
never fails to join the hardest of wood
if properly applied. Always ready for
use. For sale everywhere.

CONTAINS NO ACID.

SCIENCE CLUBBING RATES.

10% DISCOUNT.			i i
10% DISCOUNT.	E .	45	, a
We will allow the above discount	Year's	With Science.	ig ig
to any subscriber to Science or The Swiss Cross who will send	Scrien S	ĕ.ĕ	Wit
us an order for periodicals exceeding		· ·	Ś
\$10, counting each at its full price.	တ	1	Ě
American Agriculturist	\$ 1.50 1.00	\$ 4.30 4.25	\$ 2.50 2.25
American Architect and Building	1.00	4.23	2.25
News.		0-	
Imperial edition Gelatine "	7.00	12.80 9.80	11.0 0 8.00
Regular "	6 00	8.80	7.00
American Garden American Journal of Philology	3.00	4.25 C.25	2.25 4.25
American Machinist	2.50	5.30	4 50
American Magazine	3.00	5.80	4 00
American Magazine	4.00		5.50
Atlantic	4.00		5.00
Babyhood	1 50 .50	4·30 3·75	2.50 1.75
Babyland	5.00	7.80	6.00
BrainBuilding (weekly)	3.50 6.00	6.30 8.80	4 50
Carpentry and Building	I.00	4.25	7.00 2.25
Century Magazine	4.00	6.80	5.00
Chautauquan, The Christian Union, The Christian Weekly, Illustrated	1.50 3.00	4.30 5.80	2.50 4.00
Christian Weekly, Illustrated	2.50	5 - 30	3.50
Cosmopolitan, The	2.00 3.00	4 80 5 80	3.00 4.00
Doctor	2.00	4.80	3.00
Eclectic Magazine	5.00	7.80	6.00
Edinburgh Review Electrical World	4.00 3.00	6.80 5.80	5.00 4.00
Electrician and Electrical Engineer.	3.00	5 80	4.00
Electrical Review Engineering and Mining Journal	3.00	5 8o 6.8o	4.00 5.00
English Illustrated Magazine Family Story Paper (N.Y.)	1.75	4.55	2.75
Family Story Paper (N.Y.)	3.00 4.00	5.80 6.80	4.00
Forum, The	5.00	7.80	5.00 6.00
Godey's Lady's Book	2.00	4.80	3.00
Harper's Magazine	4.00 4.00	6.8o 6.8o	5.00 5.00
Family Story Paper (N.Y.). Forest and Stream Forum, The Godey's Lady's Book Harper's Bazar Harper's Magazine Harper's Weekly Harper's Young People Health and Home.	4 00	6.80	5 00
Harper's Young People Health and Home	2.00 1.00	4.80	3.00 2.25
Heraid of Health	1.00	4.25	2.25
Illustrated London News (Amer.	4.00	6.80	5.00
reprint)	3.00	5.80	4.00
Inter Ocean, Inc	4.50	4·25 7·30	2.25 5.50
Iron Age (weekly)	2.50	5.30	3 50
Journal of Speculative Philosophy (begins with Jan. No.)	3.00	5.80	4.00
Judge	4.00	6.80	5.00
Life	5.00	7.80	13.00 6.00
Lippincott's Magazine	3.00	5.80	4.00
Littell's Living Age Little Men and Women London Quarterly	8.00	10.80	9.00
London Quarterly	4.00	6.80	5.00
Magazine of American History	3.00 5.00	5.80 7.80	4 00 6.00
Medical and Surgical Iournal	5.00	7.80	6.00
Mechanical Engineer	2.00 I.00	4.80	3.00
Microscope, The	1.00	4 25	2.25
Nature	6.00	8.80	7 00
New Princeton Review North American Review	3.00 5.00	5.80 7.80	4.00 6.00
Outing	3 00	5.80	4.00
Overland Monthly	4.00 I.00	6.80 4.25	5.00 2.25
Political Science Quarterly	3 00	5.80	4.00
Popular Science Monthly Popular Science News	5.00 1.00	7.80 4.25	6.00 2.25
Portfolio, The	7.50	10.30	8.50
Practitioner	3.50 3.00	6.30 5.80	4.50
Public Opinion Puck Puck (German)	5.00	7.80	6.00
Puck (German)Quarterly Review (London)	5.00 4.00	7 80 6 80	6.00
Oueries	1.00	4.25	5.00 2 25
Kurai New-Yorker	2.00 3 00	4.80 5.80	3.00
St. Nicholas School Journal Scientific American.	2.50	5.30	4.00 3.50
Scientific American	3.00	5.80	4.00
Supplement	5.00 2 50	7.80 5.30	6.00 3.50
Scribner's Magazine	3.00	5.80	4.00
Southern Cultivator Springfield Republican (weekly)	I.50 I.00	4.30	2.50
Springfield Republican (weekly) Sunday School Times	2.00	4.80	3.0C
Teachers' Institute Texas Siftings	1.25	4.05 6 80	2.25 5.00
Treasure-Trove	1.00	4.25	2 25
Wide Awake	3.00 2.40	5.80	4.00 3.40
Wide Awake	1.00	4.25	2.25
N D C HODA	~ [-	~	
N. D. C. HODGES.			

N. D. C. HODGES, 47 Lafayette Place, New York.