the sentence had begun with the parenthetical clause, "where the dripping oil is not preserved." These little matters often make the difference between a readable book and a "tough" one.

But where the recognized authority upon a difficult subject like this, gives to the fraternity so solid a mass of valuable fact as in this case, it is hardly in order to cavil over details; and we have no doubt the fraternity will substantially express its obligation by eagerly using what is set before it.

T.

Franklin Institute.

[*Proceedings of the Stated Meeting, held Wednesday, September 16, 1885.*]

HALL OF THE INSTITUTE, September 16, 1885.

MR. WM. P. TATHAM, President, in the Chair.

Present—Fourteen members.

The election of forty new members was reported.

The Secretary reported a recommendation from the Committee on Science and the Arts, for the award of the JOHN SCOTT Legacy Premium and Medal to P. E. JAY, of New York, for his Automatic Anti-Freezing Valve for Water Pipes. The recommendation was approved, and the Secretary was directed to inform the Committee on Minor Trusts of the Board of City Trusts of the action of the INSTITUTE.

No programme of business having been arranged on account of the opening of the "NOVELTIES" Exhibition, the meeting was thereupon adjourned.

WILLIAM H. WAHL, *Secretary.*

[*Proceedings of the Stated Meeting, held Wednesday, October 21, 1885.*]

HALL OF THE INSTITUTE, October 21, 1885.

MR. WM. P. TATHAM, President, in the Chair.

Present—Sixty-one members.

The election of thirty-two persons to membership was reported.

The Chairman of the Committee on Science and the Arts reported the following recommendations for the award of the JOHN SCOTT Legacy Premium and Medal; viz.:

JOHN H. DOERR,	of Philadelphia,	}	for their improvements in
WILLIAM H. WIGMORE,			Sleeping Cars.
SAMUEL WILLS, Camden, N. J., for his improvement in Journal-bearings.			
CYPRIEN CHABOT, Philadelphia, for his Straight-Needle, Waxed-Thread Sewing Machine, for Sewing Shoe Soles to Uppers.			
CYPRIEN CHABOT, Philadelphia, for his Machine for Channeling Shoe Soles.			
CYPRIEN CHABOT, Philadelphia, for his Sole-Edge Turning and Bending Machine.			

FRED'K SIEMENS, Dresden, Saxony, for his Regenerative Gas Burner.

PAUL LA COUR, Copenhagen, Denmark, for his invention of the Phonic Wheel.

PATRICK B. DELANY, New York, for his improvements in Multiplex Telegraphy.

E. A. CALAHAN, Brooklyn, N. Y., for his improvements in Multiplex Telegraphy.

He likewise reported the following recommendations for the award of the ELLIOTT CRESSON Gold Medal of the INSTITUTE :

FRED'K SIEMENS, of Dresden, for his Regenerative Gas Burner.

PATRICK B. DELANY, New York, for his improvement in Multiplex Telegraphy.

CYPRIEN CHABOT, Philadelphia, for his Stright-Needle Waxed-Thread Sewing Machine, for Sewing Shoe Soles to Uppers.

The above recommendations were separately taken up in the order named, and were each unanimously adopted. The Secretary was directed to take the customary steps in connection with the same.

The Secretary presented his usual report of progress in Science and the Arts, whereupon the meeting was adjourned.

WM. H. WAHL, *Secretary*.

[*Proceedings of the Stated Meeting, held Wednesday, November 18, 1885.*]

HALL OF THE INSTITUTE, November 18, 1885.

WM. P. TATHAM, President, in the Chair.

Present—146 members and eight visitors.

The Actuary reported the election of sixty-six persons to membership ; and the following preamble and resolutions, adopted at the meeting of the Board of Managers, held Wednesday, November 11, 1885, viz :

Whereas, Valuable service has been rendered to the FRANKLIN INSTITUTE, in conducting a series of Tests on Dynamo Electric Machines and on Incandescent Lamps, which tests were ordered by the Board of Managers ; and,

Whereas, Said service was given without compensation, and required a large amount of labor and time ;

Therefore,

Resolved, That the Board of Managers nominate the following named gentlemen for election to honorary membership in the INSTITUTE, for their invaluable services in conducting the electrical tests, under appointment by the President, viz. :

LOUIS DUNCAN, Ph. D., Ensign U. S. N.

JOSEPH B. MURDOCK, Lieut. U. S. N.

WILLIAM D. MARKS, Whitney Prof. of Dynamic Engineering, University of Penna.