

A Matthew B. Brady photograph of Thomas A. Edison and the "talking phonograph," taken April 18, 1878, when Edison demonstrated the device before the National Academy of Sciences in Washington.

Published by the AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Thomas A. Edison Centennial Issue

LTERING TIME Giltrators 2/3 WITH FISHER Unique, Patented Funnel **Enables Rapid Vacuum Filtering**

Analytical filtering can now be conducted much more rapidly, conveniently and efficiently with Fisher Filtrators because they utilize the advantages of the reducedpressure method and eliminate the old disadvantages. This is accomplished by a new means for controlling the vacuum and collecting the filtrate in combination with a unique double-walled, porcelain funnel with slotted inner wall.

These Filtrators can be arranged in a series, all connected to one Airejector, but each Filtrator can be connected or disconnected independently by means of the valve on the base.

FISHER SCIENTIFIC

717 Forbes St., Pittsburgh (19), Pa. 2109 Locust St., St. Louis (3), Mo.

Fisher Filtrator, Low Form, with funnel, stopper and glass bell (without beaker) Each, \$15.75
Fisher Filtrator, High Form, with funnel, stopper and cylindrical cover (without volumetric flask)

Filtrator Funnel, porcelain, double wall, Each \$5.00

Manufacturers—Distributors

Headquarters for Laboratory Supplies

LO.

AND **AM**END

Greenwich and Morton Streets New York (14), New York

Just off Press!

NEW (8*th*) EDITION

RANSON - CLARK'S

Anatomy of the Nervous System

In this New (8th) Edition of this standard textbook you will find a most useable and effective teaching instrument. It has been revised, brought up-to-date, and improved by a reorganization of the contents and the addition of significant new data. Gross anatomy is now presented early in the text and before functional considerations are discussed. The material on Meninges and Blood Vessels of the Central Nervous System has been placed in chapter three. The chapter on Autonomic Nervous System has been rewritten and throughout the book new facts have been lincluded, bringing the subject matter thoroughly up-to-date.

Other New and Revised Material

Wallerian degeneration has been described anew with some interesting points on regeneration of nerves after injury.

Cerebral cortex-localization of areas, and function

Cerebellum—recent work to show some degree of localization of function, etc.

Innervation of choroid plexus

Functional composition of the trigeminal pathways

New data on the cochlear, vestibular and optic nerves

New method of plotting dermatomes by sympathetic ganglionectomy

New classification of thalamic nuclei

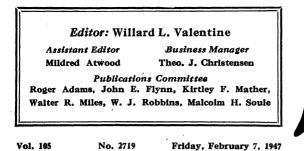
By STEPHEN W. RANSON, M.D., PH.D., Late Professor of Neurology and Director of "the Neurological Institute, Northwestern University Medical School, Chicago. Revised by SAM LILLARD CLARK, M.D., PH.D., Professor of Anatomy, Vanderbilt University School of Medicine, Nashville, Tennessee. 532 pages, 63/2" x 93/4", with 417 illustrations, some in color. \$6.50

W. B. SAUNDERS COMPANY

West Washington Square

Philadelphia 5

1



cience

CONTENTS

Thomas A. Edison: Sketch of Activities, 1874-1881:	
Norman R. Speiden	137
Thomas A. Edison and the Founding of Science: 1880	142
Thomas A. Edison and the Naval Research Laboratory:	
A. Hoyt Taylor	148
The Nature and Development of Operations Research: Charles Kittel.	150
Patent Policies in Educational Institutions and Nonprofit Research	
Organizations: Archie M. Palmer	154
News and Notes	155
Book Reviews	
Women in industry: their health and efficiency: Anna M. Baetjer.	
Reviewed by Josef Brožek	161
Enzymes and their role in wheat technology: J. Ansel Anderson (Ed.).	
Reviewed by W. Farnsworth Loomis	161
The people look at radio: Paul F. Lazarsfeld and Harry Field.	160
Reviewed by Quinn McNemar	102
Scientific Book Register	162

Science, a weekly journal, is published each Friday by the American Association for the Advancement of Science at Mt. Royal & Guilford Avenues, Baltimore 2, Maryland. Founded in 1880, it has been since 1900 the official publication of the AAAS. Editorial, Advertising, and Circulation Offices, 1515 Massachusetts Avenue, N.W., Washington 5, D. C. Telephone, EXecutive 6060 or 6061.

Articles offered for publication should be sent to the Editor, 1515 Massachusetts Avenue, N.W., Washington 5, D.C.

Membership correspondence for the AAAS should be sent to the Administrative Secretary, 1515 Massachusetts Avenue, N.W., Washington 5, D. C.

.

Change of address. Four weeks notice required for change of address. When ordering a change, please furnish an address stencil label from a recent issue. Address changes can be made only if the old as well as the new address is supplied.

Annual subscription, \$7.50; single copies, \$.25; foreign postage (outside the Pan-American Union), \$1.00 extra; Canadian postage, \$.50 extra. Remittances and orders for subscriptions and for single copies, notices of changes of address, and claims for missing numbers should be sent to the Circulation Department.

Entered as second-class matter July 18, 1923, at the postoffice at Lancaster, Pennsylvania, under the act of March 3, 1879. Re-entered as second-class mailing matter under the act of March 3, 1879, January 17, 1947, at Baltimore, Maryland.