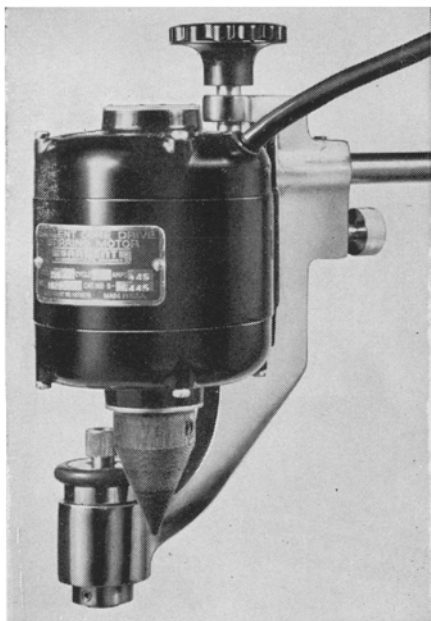


IMPROVED SARGENT Cone Drive Stirring Motor

**New Model,
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from Stock—**



In redesigning the Sargent Cone Drive Stirring Motor, the basic form, size and characteristics, including the method of transmitting power by means of a driving cone and a driven ring have been retained because of definite advantages they have displayed over other types of stirring apparatus during many years of proven performance in the field. However, now, certain mechanical inconveniences in manipulation which formerly existed, have been eliminated and the efficiency and ease of operation greatly increased.

NEW MOTOR MOUNT—The motor is mounted on a threaded rod and urges the driving cone against the friction ring by means of a pressure plate with adjustable spring tension. This type of mounting permits the motor to be swung away and held in a free position without changing the lateral position of the chuck. For additional convenience, the motor may be swung to either side of the friction ring, from where it will operate with equal efficiency.

FULL POWER AT ALL SPEEDS—The patented Sargent cone-to-ring device in which the driving cone and the driven ring rotate in the same plane, reduces cross-drag to a negligible quantity and delivers full power to the chuck at all speeds from 75 to 1300 r.p.m.

CHUCK HELD IN FIXED POSITION—The speed is varied by turning a hand wheel which raises or lowers the motor and alters the position of the cone with relation to the friction ring. In this type of design the ring and chuck are held in a fixed position and all lateral movement is in the cone and motor.

FEED-THROUGH SPLIT-COLLET CHUCK—Another feature of the new model Sargent Cone Drive Stirring Motor is the feed-through split-collet chuck which permits the stirring rod to be removed from the vessel in which material is being stirred, without repositioning the motor on the support rod. To accomplish this, merely swing the motor to one side, loosen the chuck and raise the stirring rod out of the vessel through the open top of the chuck.

S-76445 STIRRING MOTOR, Electric, Sargent Cone Drive, Variable Speed, Patent No. 1,973,576. For operation from 115 volt 50/60 cycle A.C. circuits \$54.00
S-76445 Ditto, but for operation from 230 volt 50/60 cycle A.C. circuits \$65.00

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New Books

THE FUNDAMENTALS OF DETERGENCY, by William W. Niven Jr. (Reinhold Publishing Corporation, 330 W. 42nd street, New York City, \$5.50). This book is a summary of the immense amount of data which has been published on detergency. Part I gives a very excellent discussion of the work which has been done on the physical and chemical factors which enter into detergent processes. The specialized work of many investigators, as it relates to various specific problems, has been brought together and, as far as possible, fitted together to give a unified picture or divergent conclusions. Gaps in the basic knowledge have been noted. The author makes but little attempt critically to analyze the data presented or the conclusions drawn by the original workers.

The second section of the book deals with Practical Considerations of the Detergent Process. Here there was less original source material available, and this phase of the subject is discussed in a more general way than in the first part of the book. The author apparently feels that artificial soils are not comparable to natural soils and omits any real discussion of the vast amount of work which has been done on the evaluation of detergents and detergent processes by the use of artificially soiled fabrics.

The book brings together in one place a large part of the widely dispersed information on detergency and should be an invaluable tool in the hands of all workers in the field.

RALPH B. SMITH
 New Jersey Laundry and
 Cleaning Institute,
 Newark, N. J.

CAROTENOIDS, P. Karrer and E. Jucker (Elsevier Publishing Company Inc., New York, 384 pages, 1950, \$8.50). The original Swiss edition of this book appeared in 1948. In the present translation Dr. E. A. Braude has made corrections and included the results of important investigations published since that time in order to bring the information up to date.

Seventeen well arranged chapters describe in detail the chemistry, distribution, and biological significance of the carotenoid pigments. The extensive literature on the carotenoids has been carefully arranged so that the information is easily available. An excellent table of contents includes numerous subheadings as well as chapter titles. A 21-page index also adds to the facility with which material can be found. Numerous tables and formulas with adequate references to the original literature add to the value of the work. An appendix contains color plates of crystalline forms of 12 pigments and light absorption curves of many others.

The main portion of the book is divided into two sections. The first nine chapters deal with the more general topics such as methods of detection and estimation, physiological significance, methods of isolation and elucidation of chemical structure, relationships between structure and color, syntheses, and distribution in plants and animals. Individual carotenoids are described in the second part.

The term carotenoids refers to a group of yellow to red colored pigments, generally composed of eight

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isoprene residues arranged in such a way that in the middle of the molecule two methyl groups are present in 1:6 positions while all other side chain methyl groups occupy 1:5 positions. Their general structure is of the aliphatic or aliphatic-alicyclic type, and they contain numerous conjugated double bonds. The 70 to 80 carotenoids which have been found in nature can all be related to a parent substance, lycopene. Their visible light absorption comprises a range of from about 400 to 700 μ .

Previous monographs on this subject were written by L. S. Palmer in 1922 and by L. Zechmeister in 1934. However extensive work on the chemical structure of the carotenoids and investigations of their biological significance have been made in the last 16 years so that this present volume, which is a collation of the data, is a timely addition to the scientific literature. It should serve for several years as a standard text and reference book on this important class of pigments. Anyone interested in the field will surely want to have access to it.

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