

*Manual of*  
**MECHANICAL  
MOVEMENTS**



MANUAL OF MECHANICAL MOVEMENTS

*A Collection of*

MECHANICAL MOVEMENTS

*For study in connection with developments in the line of*

MACHINE DESIGN  
DYNAMICS  
HYDRAULICS  
PNEUMATICS  
HYDROSTATICS  
HOROLOGY  
ELECTRICITY  
PRIME MOVERS  
MISCELLANEOUS MACHINES

*Compiled and sold in connection with the exhibiting of*

“MECHANICAL WONDERLAND”

*A collection of*

OVER TWO HUNDRED MOVING MODELS

Electrically driven, in slow motion, showing all the  
movements used in the art and science of mechanics

“A Century of Progress” edition  
International Exposition  
Chicago, Illinois, U. S. A.  
1933

PUBLISHED BY W. M. CLARK  
416 CLARK STREET, SOUTH ORANGE, NEW JERSEY, U. S. A.

COPYRIGHT 1868,  
by HENRY T. BROWN,  
Renewed 1896.

Reprinted June 1933

## FOREWORD

THIS collection of illustrations and descriptions of "Mechanical Movements" was originally published in the "American Artisan," a publication edited by Mr. Henry T. Brown, deceased, a prominent patent attorney, nationally known.

Mr. Brown was the senior member of Brown & Seward, patent attorneys, at 270 Broadway, New York City, enjoying an enviable reputation in the prosecuting of patent applications and all the work relative thereto.

A copy of this book, as originally published, was purchased, years ago, by the creator of "Mechanical Wonderland," Mr. W. M. Clark, of South Orange, New Jersey, a lover of mechanics who used it as a text book in his study of mechanics, which was his natural "Hobby."

Mr. Clark, through its help, acquired the foundation for a mechanical education, without schooling in the regular way, which inspired the conception, designing and building of a large exhibit, nationally known as "Mechanical Wonderland."

This exhibit visualizes the art and science of mechanics, so that those, like himself, who had no opportunity to get this education in the schools, can now get a quick grasp of it.

The Exhibit, "Mechanical Wonderland," is a collection of over 200 mechanical movements, devices and combinations of movements, showing every movement used in this art, either separately or in combination.

Several of these exhibits have been built, the first one being in the Science Museum of New York City, the last one being purchased by Mr. Louis Bamberger of Newark, New Jersey, and presented to the Newark Museum for permanent installation, where it has been viewed and studied by thousands of craftsmen, scientists, inventors, teachers and educational bodies, schools and colleges, together with those prominent in industries in the metropolitan area.

Over 135,000 people saw it in the "Grand Central Palace" in New York City in one week's period, when exhibited there. Inquiries were received from all parts of the United States, as well as from other countries concerning its installation in museums, educational institutions and industrial centers.

It has the endorsement of leading educators, colleges, industrial men and technical organizations throughout the country.

The Exposition, "A Century of Progress," affords a splendid opportunity to bring to the attention of all those interested in visual education, the application of this method in their own centers.

The inspiration gotten from "Mechanical Wonderland" will prove the worth of this volume, which inspired its building.

This edition is dedicated to "A Century of Progress." W. M. CLARK.