

**MECHANICAL DENTISTRY: A
PRACTICAL TREATISE ON THE
CONSTRUCTION OF THE
VARIOUS
KINDS OF ARTIFICIAL DENTURES**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649645190

Mechanical Dentistry: A Practical Treatise on the Construction of the Various Kinds of Artificial Dentures by Charles Hunter

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

CHARLES HUNTER

**MECHANICAL DENTISTRY: A
PRACTICAL TREATISE ON THE
CONSTRUCTION OF THE
VARIOUS
KINDS OF ARTIFICIAL DENTURES**

MECHANICAL DENTISTRY

MECHANICAL DENTISTRY

A PRACTICAL TREATISE ON THE CONSTRUCTION
OF THE VARIOUS KINDS OF

ARTIFICIAL DENTURES

COMPRISING ALSO USEFUL FORMULÆ, TABLES, AND RECEIPTS
FOR GOLD PLATE, CLASPS, SOLDERS
ETC. ETC. ETC.

By CHARLES HUNTER

MECHANICAL DENTIST



PHILADELPHIA
LINDSAY & BLAKISTON

1878

Dental Library

RK

651

.H94

cop.2

LONDON:
PRINTED BY VIRTUE AND CO., LIMITED,
KEY ROAD.

*Dentistry
Life
Col. J. M. Skirupson
10-10-63
add. exp.*

PREFACE.

IN introducing the present work to the notice of the dental profession, I may say that my design has been to make it a specially practical one. It is written after an experience of nearly twenty years as a mechanical dentist, and contains, besides the results of that experience, much that has been derived from the practical knowledge of others. I hope therefore that I have been enabled in the following pages to give a clear and accurate account of the actual methods adopted by competent workmen, in the construction of the various forms of artificial dentures.

At page 216 and following pages will be found formulæ, tables, and receipts, which have been carefully collected from various trustworthy

sources, and which, being of direct interest to the dentist, will, I hope, further add to the practical character of the work.

To Dr. Richardson's valuable treatise I have been indebted for the account given at page 193 of Dr. Kingsley's method of constructing artificial palates and for the illustrations connected with that subject.

I have to thank, also, the Messrs. Claudius Ash and Sons, who have kindly granted the use of their wood-blocks for many of the illustrations.

C. H.

CONTENTS.

CHAPTER I.

IMPRESSIONS AND PLASTER MODELS.

	PAGE
MECHANICAL DENTISTRY IN 1728	1
IMPRESSION TRAYS	2
UPPER IMPRESSION TRAYS	2
LOWER " "	3
IMPRESSION TRAYS FOR PARTIAL CASES	3
STRUCK TRAYS FOR SPECIAL CASES	4
IMPRESSION MATERIALS: WAX	5
" " " GUTTA-FERCHA	6
" " " GODIVA AND STENT COMPOSITION	7
" " " PLASTER OF PARIS	8
CASTING MODELS IN PLASTER	13

CHAPTER II.

CASTING METAL MODELS.

MOULDING SAND	18
CASTING RINGS OR FLASKS	19
OBTAINING THE SAND IMPRESSION	19
FLASK INTRODUCED BY DR. HAYES	24
ZINC MODELS OR DIES	26
LEAD COUNTERS	27
FUSIBLE METALS	28

CHAPTER III.

GOLD.—PLATE.—CLASPS.—WIRE.

FINE GOLD UNSUITABLE FOR "BASE" PLATES	30
FURNACES, CRUCIBLES, &C.	31

	PAGE
ALLOYING GOLD	32
ALLOY	34
MELTING THE METAL	35
TREATMENT OF SCRAP	37
LEMEL	39
FLATTING	41
WIRE	42
WIRE-DRAWING	43

CHAPTER IV.

BLOWPIPE.—SOLDERING.

BELLOWS BLOWPIPE	44
HYDROSTATIC BLOWPIPE	45
MOUTH BLOWPIPE	46
DIRECTIONS FOR SUSTAINING THE BLAST	47
SOLDERING	48
POINTS TO BE OBSERVED IN SOLDERING	49
THE FLAME	50

CHAPTER V.

STRIKING UP PLATES.—CLASPS.—STRENGTHENERS.

PLATES FOR EDENTULOUS UPPER MODELS	52
SUCTION CHAMBERS	57
PLATES FOR PARTIAL CASES, UPPER AND LOWER	58
CLASPS	61
ARRANGEMENT OF CLASPS	65
FITTING OF CLASPS	68
STRENGTHENERS	70

CHAPTER VI.

THE "BITE" IN WAX AND PLASTER.

SHAPING THE WAX-BITING BLOCK	74
MANAGEMENT IN THE MOUTH	75
CASTING IN PLASTER	76
ARTICULATING FRAMES	77