

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9781760571924

A practical course in horology by Harold C. Kelly

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

HAROLD C. KELLY

A PRACTICAL COURSE IN HOROLOGY

Trieste

A PRACTICAL COURSE IN HOROLOGY

A

PRACTICAL COURSE IN HOROLOGY

By HAROLD C. KELLY

Head, Department of Horology Southwestern Institute of Technology Weatherford, Oklahoma



THE MANUAL ARTS PRESS PEORIA, ILLINOIS

Copyright, 1944 THE MANUAL ARTS PRESS

No part of this book may be reproduced in any form without permission of the copyright owner

34K55

PRINTED IN THE UNITED STATES OF AMERICA

CONTENTS

"TIME"	Po	em,	by	Lau	rens	L.	Sim	ipsc	m	•	7
Preface.	•		•				1.00				9

PART I: GENERAL PRINCIPLES

CI	ia	pt	er
C,	Id,	μŗ	C1

onupter			
ONE.	Wheel Work		13
TWO.	Gearing		32
THREE.	The Lever Escapement	(34)	39
FOUR.	The Controlling Mechanism		52

PART II: PRACTICAL REPAIRING

ONE.	Train Problems		.•	÷		•	62
TWO.	Jeweling	•	٠	•			68
THREE.	Making a Balance Staff		•	•	×		73
FOUR.	Pivoting		•	•		٠	85
FIVE.	Fitting Balance Springs			•	٠	٠	88
SIX.	Escapement Adjusting		•			(• 1)	100
SEVEN.	Cleaning and Oiling .	۲		•	•	•	124

PART III: ADJUSTING

ONE.	Preliminary Notes on Adjusting	•		128
TWO.	Position Adjusting	٠	٠	140
THREE.	Adjustment to Isochronism	٠		150
FOUR.	Adjustment to Temperature	3 9 2)	•	156
FIVE.	Practical Work of Adjusting .	s	•	159
	Glossary of Terms	٠	•	173
	Bibliography	٠	•	182
	Index	5. 5		185

TIME

BY Laurens L. Simpson

(WRITTEN TO ACCOMPANY THE GIFT OF A WATCH)

.

I am time. I come to give thee life Twenty-four hours of every day, All this to every man.

I tick tick. I sound in peace, and strife, In sleep, in work and play, Forever, on and on.

I never change To good and bad alike. The rich, the brave, the free All use me as they may.

I am gold To those who will; to others Lead, who do not see The benefit of industry.

I am power. Weak to strong, coward to brave, Man grows as I move on, Or not, as will he may.

(CONTINUED NEXT PAGE)

I am fame To those whose light is bright, Who shine with all their might, Pure, through day and night.

I am happiness To those who serve and give, Who help the weak, make known The unknown, and live.

Now or never Equal chance I give to all, My days to use or lose, Here once then gone forever.