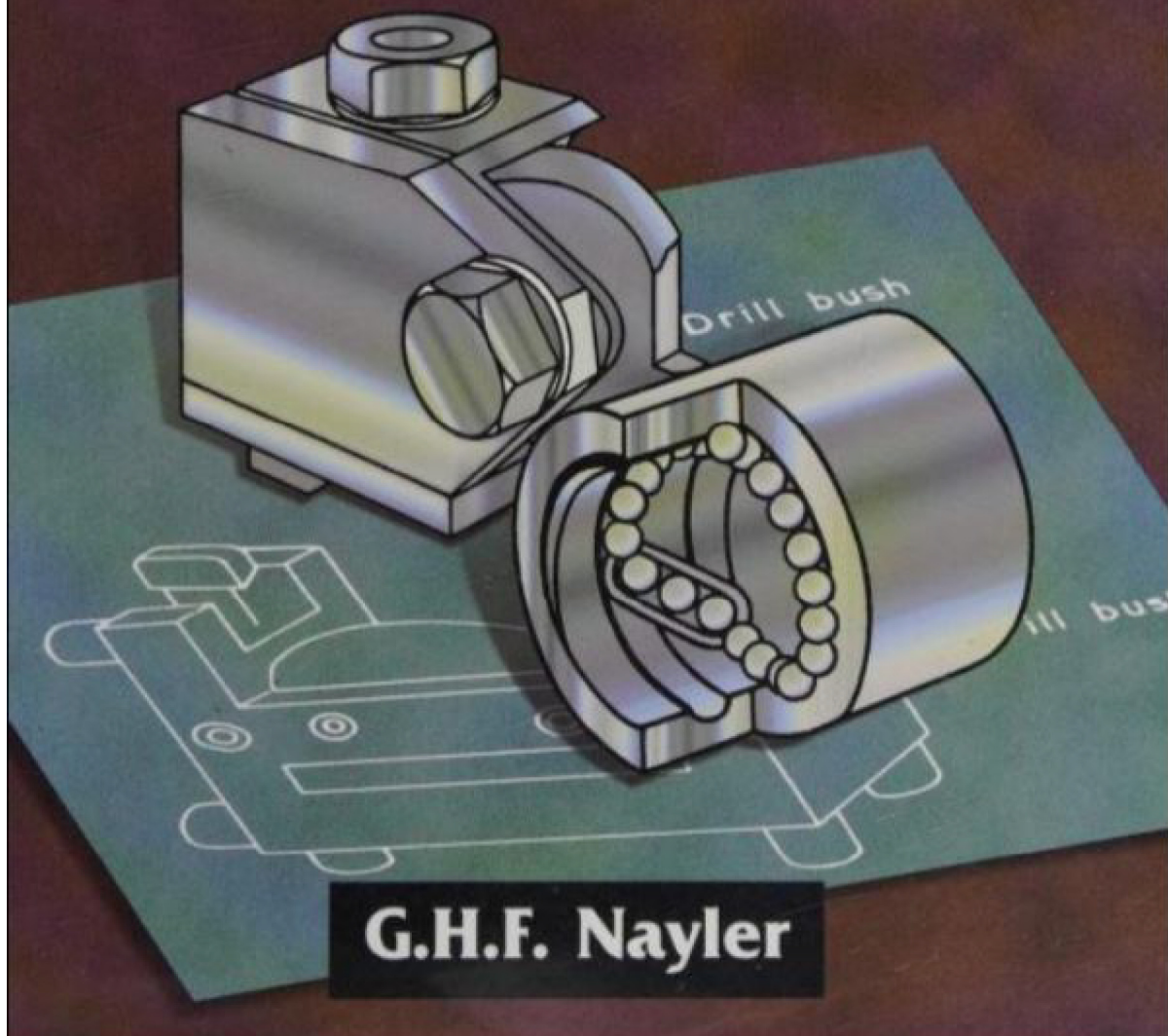


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Fourth Edition



G.H.F. Nayler

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G.H.F. Naylor

MSc, CEng, MIMechE, MRAeS

Society of Automotive Engineers, Inc.
Warrendale, Pa.

Butterworth-Heinemann
Oxford Boston Johannesburg
Melbourne New Delhi Singapore

First published by George Newnes Ltd, 1967
Second edition 1975
reprinted 1978, 1981
Third edition 1985

Allen County Public Library
900 Webster Street
PO Box 2270
Fort Wayne, IN 46801-2270

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Printed and bound in the United States of America.

Butterworth-Heinemann
Linacre House, Jordan Hill, Oxford OX2 8DP

A division of Reed Educational and Professional Publishing Ltd.
A member of the Reed Elsevier plc group

British Library Cataloguing in Publication Data

A catalogue record for this book is available from the British Library

Butterworth-Heinemann ISBN 0 7506 3009 4

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Phone: (412) 776-4841 Fax: (412) 776-5760

Library of Congress Cataloging-in-Publication Data

Nayler, G. H. F.

Dictionary of mechanical engineering / G.H.F. Nayler. -- 4th ed.
p. cm.

ISBN 1-56091-754-7 (hardcover)

1. Mechanical engineering--Dictionaries. I. Title.

TJ9.N28 1996

621'.03--dc20

95-52297

CIP

SAE ISBN 1-56091-754-7

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SAE Order No. R-156

mallets Soft headed *hammers* which are used to avoid damage to machined and other surfaces. Several types are used including the following: lead head with an iron handle or a wooden handle and iron head with an insert of copper, fibre, hard rubber, box wood, plastic or hide.

Maltese Cross mechanism (Geneva wheel) A mechanism for feeding the film forward intermittently in a cinematograph projector (or camera), involving a star-wheel and cam and obviating the use of claws. The mechanism is also used in machine tools to give an intermittent action (see *Figure M.3*).

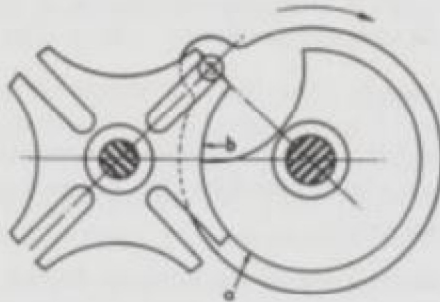


Figure M.3 Maltese Cross mechanism: (a) star wheel, (b) cam.

Manchester principle *Diametral pitch.*

mandrel (mandril) (a) A cylindrical rod, usually parallel and sometimes tapered, upon which partly machined work is mounted for turning, milling, etc. (b) A cylindrical rod used in the opening of a die to form the internal diameter when extruding tubes. When unsupported in the die it is called a "floating mandrel." (See *Figures D.11* and *T.17*.) (c) The driving or headstock spindle of a lathe. (d) The core around which a flexible material or resin-impregnated fibre is wound to form tubes, pipes or vessels. (e) A special face-plate lathe used in watch-making.

expanding mandrel One which is split and capable of expansion by a tapered plug.

mandrel press A press used for the purpose of fitting mandrels to the bore of the work, the mandrel usually slightly tapered. See also *mandrel*.

manifold A chamber or pipe with many openings.

exhaust manifold A pipe or chamber into which the exhaust gases of a piston engine are led from a number of cylinders.

fuel manifold A main pipe with a series of branch pipes distributing fuel to the burners of a turbojet engine or cylinders of a piston engine.

induction manifold (inlet manifold) A branched pipe for distributing the air/fuel mixture to a number of cylinders of a *piston engine*.