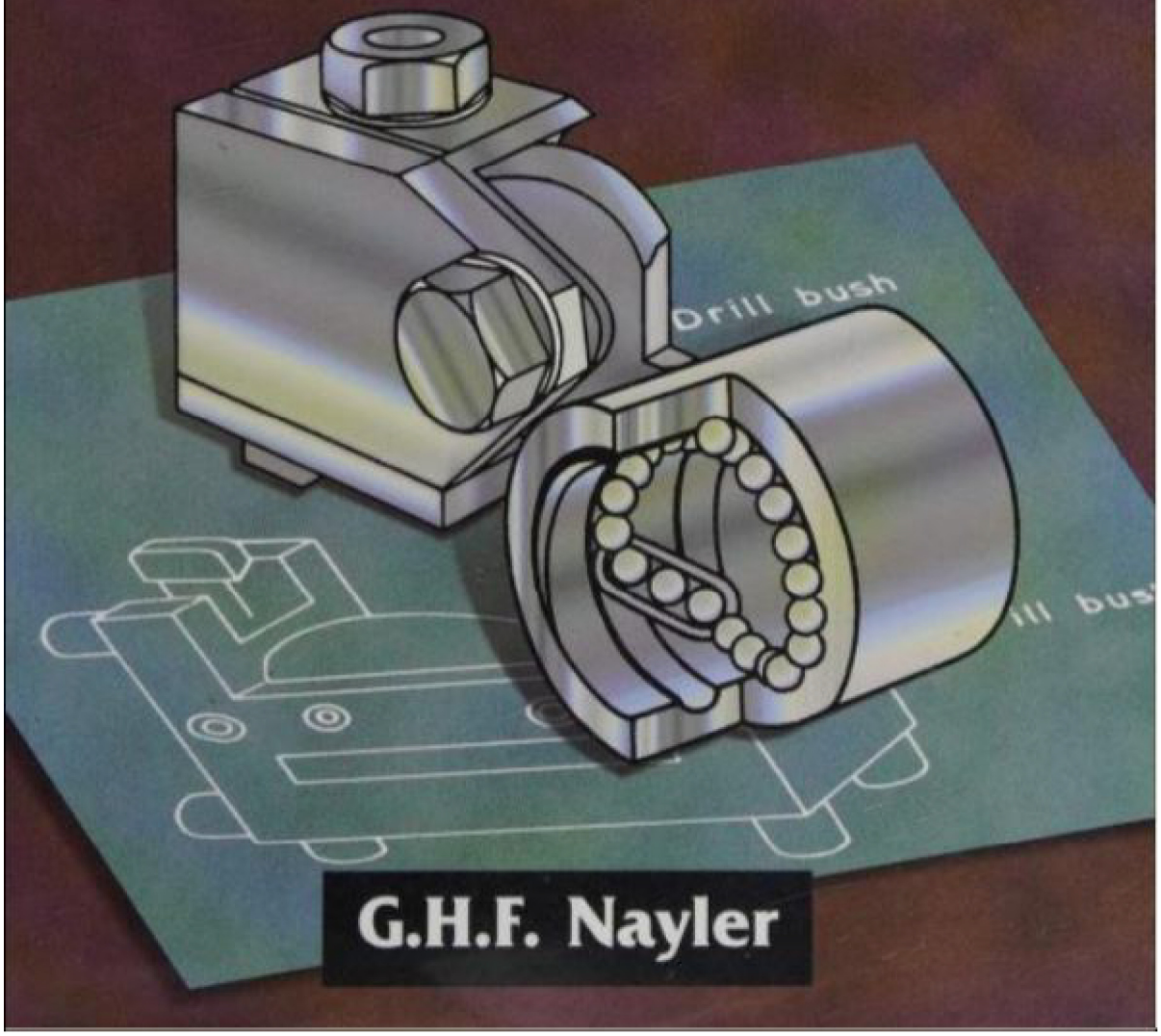
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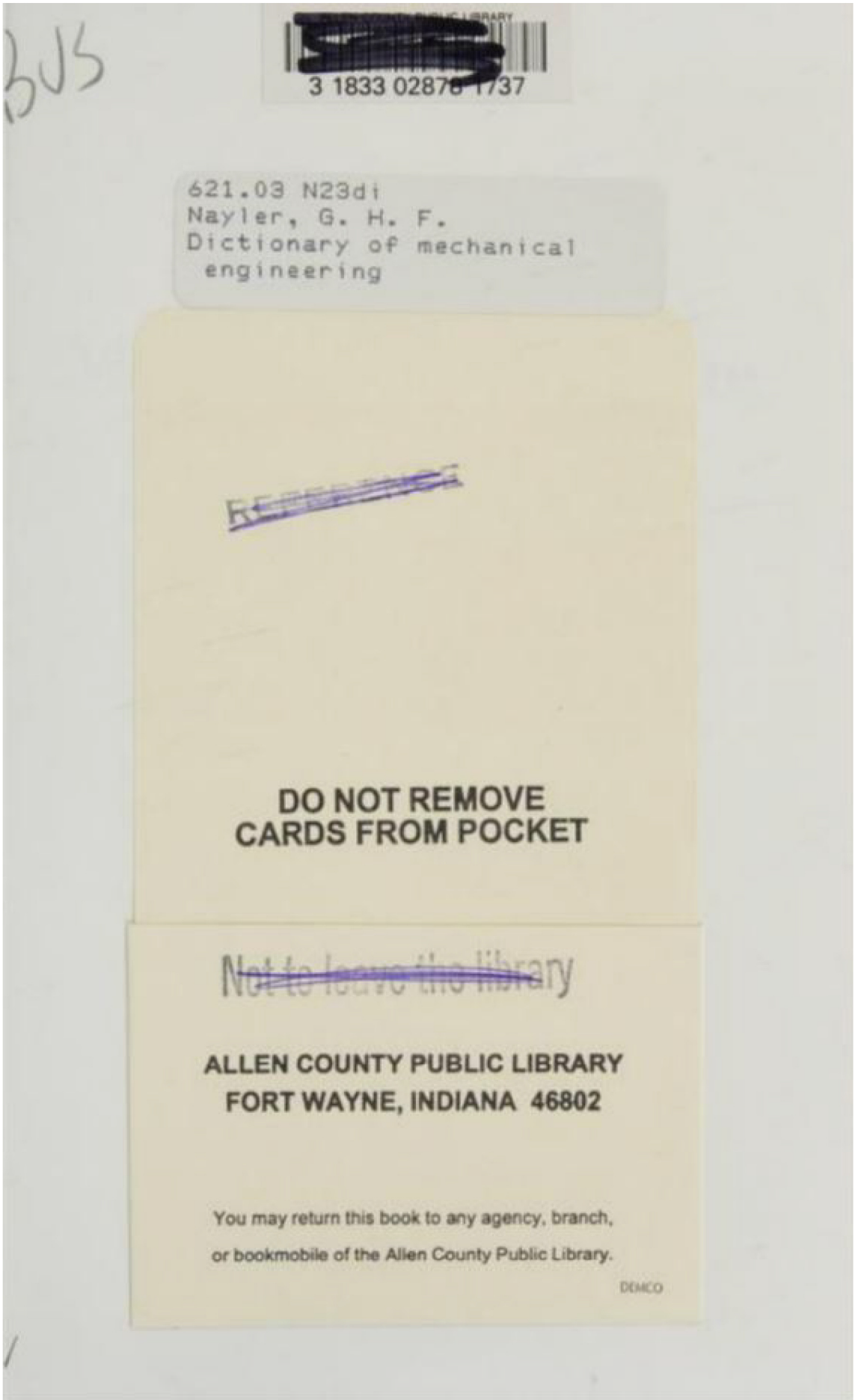
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Fourth Edition



G.H.F. Nayler

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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*).

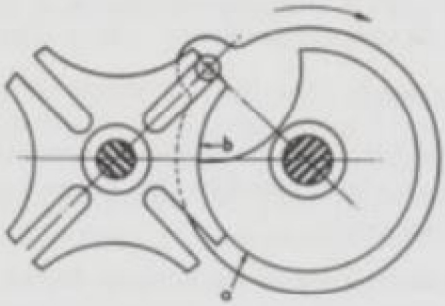


Figure M.3 Maltese Cross mechanism: (a) star wheel, (b) cam.

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***.