

PATENT SPECIFICATION



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555,466

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COMPLETE SPECIFICATION

An Improved Gas Lighter

I, SAMUEL EDWARD KERSWELL, 36, Camperdown Terrace, Exmouth, Devon, British nationality, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to a device primarily intended for igniting domestic gas stoves, gas fires and the like, but applicable also for use in igniting gas furnaces and/or burners in industrial use.

This lighter is of the kind employing a flint, or what is known as a flint (hereinafter referred to as a flint), held in flexible contact with a wheel, having a roughened periphery, (hereinafter referred to as a flint wheel), and of the type having rotating wheels operated by thumb or finger without the use of triggers or levers. Lighters of this character are known, and the object of the present invention is to provide an improved lighter of this type, which will be more convenient to use and manufacture.

Described in greater detail, the invention consists of a frame, which may be a die-casting, or moulded or fashioned in plastic material, having a turned down part to form a handle, integral with an extending member, said extending member having bearings as part of, or securely affixed, at appropriate intervals to support a rotatable shaft. Part of, or securely affixed to the aforesaid extending member is a suitable protrusion so designed as to form a holder for a flint, spring and screw. It is further desired that the handle be made with a hole or aperture to facilitate hanging the device on to any suitable projection.

In order that this said invention may be clearly understood I append hereunto one sheet of drawings. Fig. 1 being an elevation and Fig. 2 a plan of the device as pre-

ferred for general use. Letter A is a flint wheel having longitudinal, ratchet shaped teeth of fine pitch, C is a wheel which may be knurled, serrated or otherwise constructed so as to produce a periphery offering a roughened surface. B is a rod or shaft, securely fixed to wheels A and C, but rotatable in bearings F and G, E is a frame having a down turned handle, D is an adjusting screw controlling spring tension, and H is an aperture of any convenient shape or size to facilitate hanging the device on to any suitable projection.

In use, the lighter is held in the hand by means of the aforesaid down-turned handle with thumb or finger resting on the periphery of wheel C, gas tap is turned on, wheel A is placed in the path of the escaping gas in the manner of a pistol, the thumb or finger resting on wheel C is moved smartly so as to impart rotation to wheel C, thereby causing wheel A to revolve in contact with flint, causing sparks sufficient to ignite gas.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A gas lighter of the type set forth, in which the frame is a die-casting, or moulded or fashioned in plastic material, and has a turned down part to serve as a handle.

2. A gas lighter according to claim 1 having a hole or aperture to facilitate hanging the lighter on to any suitable projection.

3. A gas lighter constructed and adapted for operation, substantially as herein described with reference to the accompanying drawings.

Dated this 27th day of July, 1943.
S. E. KERSWELL.

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[This Drawing is a reproduction of the Original on a reduced scale.]

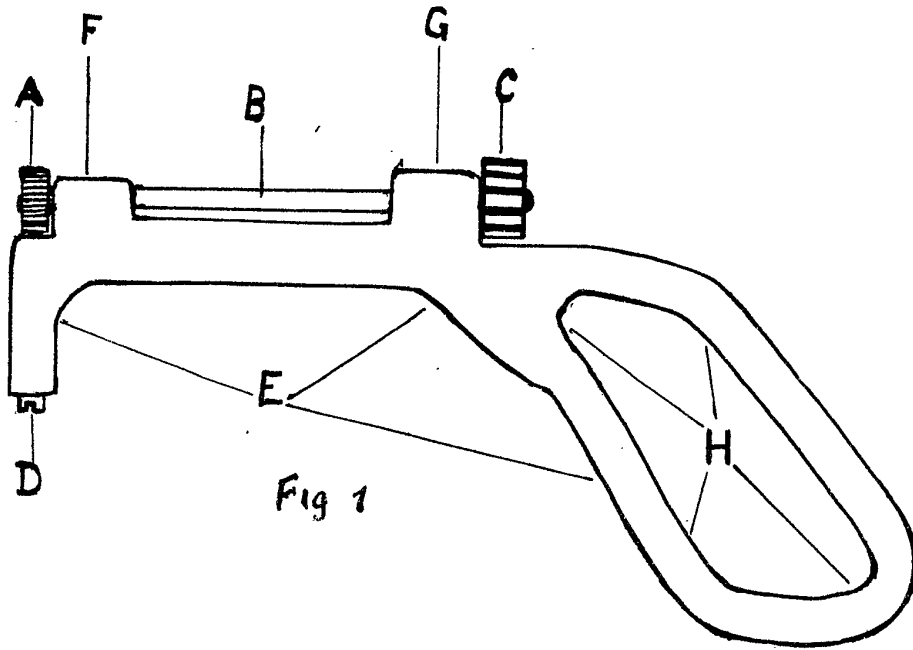


Fig 1

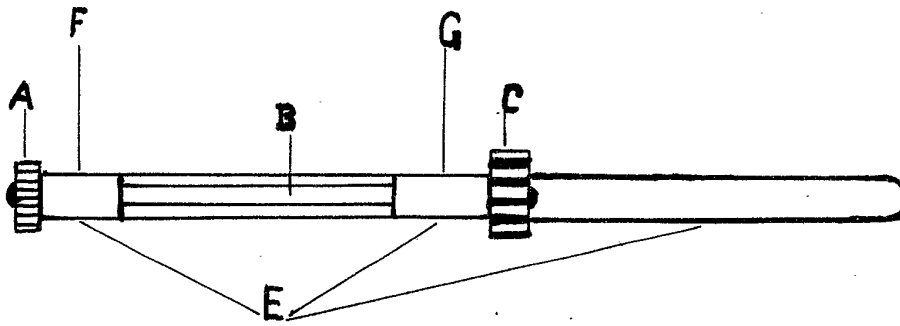


Fig 2