

**GB1283267**Conclusies van **GB1283267**

**\*\*WARNING\*\*** start of CLMS field may overlap end of DESC **\*\***.

member consists of a synthetic plastics material suitable for injection moulding, since, virtually all structural and connecting parts are formed integrally with the intermediate member.

Formed at the bottom of the intermediate member is an integral flint tube 5 adapted to house a flint which in known manner is springloaded upwardly by a spring 7 bearing with its fixed end on a screw S. The intermediate member 3 has an aperture 4 for the passage of the head of a fuel reservoir 21, and further has a pilot section 12 for the sleeve 1 to be connected to it. Forming part of the pilot section are two depending extensions in the form of spaced tongues 13 and 14, which tongues are provided adjacent their free ends with outwardly extending dogs 15 and 16 respectively. At least one of the tongues 13, 14 is resilient so that the dog carried by that tongue can snap into and fit snugly in the recess beyond a ridge 17 or 18 respectively provided on the inside wall of the sleeve 1, preferably opposite each other. The sleeve 1 is provided internally with further ridges 19, 20 for guiding the fuel reservoir 21 to be placed in the sleeve. Generally speaking, the dimensions of the sleeve and the ridges are so selected that the fuel reservoir can be slid into the sleeve without, however rattling in it.

At the top, the intermediate member 3 has a pair of webs 22, 23, each providing a journal for a common shaft 24 for a spark wheel 25 and closure cap 26. The webs are contoured at the top to form a cam cooperating with a spring 27 mounted in the closure cap to urge the closure cap either into its closed position or, in its fully open position, against a stop 25. The spark wheel and the flint constitute an ignition mechanism,

Formed at the top of the intermediate member 3 are further a pair of matched lugs 29 and 30, adapted to cooperate with beads 31, 32, extending inwardly from a flame guard 33 for fixing the guard to the member 3.

Provided at the bottom of the intermediate member 3 are projections 34 adjacent the aperture 4, cooperating with stops 35 on the upper portion of the fuel reservoir 21 in such a manner, that once the head of the reservoir has been inserted through the aperture 4 the fuel reservoir cannot continue to rotate about its longitudinal axis. This makes it possible to regulate the height of the flame by adjusting a hexagonal nut on the reservoir.

A particular feature is that the screw S at the bottom of the flint tube is screwed into the plastics material without a screw thread being tapped therein beforehand. In other words, the choice of a resilient plastics material, required for proper snapping action of the tongues 13, 14, has the added advantage that the flint tube 5 need not be machined for forming a screw thread therein.

The lighter is assembled as follows. After the flint 6 and the spring 7 have been inserted in the flint tube 5, the latter is closed with the screw S, which makes its own screw thread in the resilient plastics material. At the top, the spark wheel 25 is inserted between the webs 22, 23 the closure cap 26 placed over the webs 22, 23, and the common shaft 24 is inserted through the closure cap 26, webs 22, 23 and spark wheel 25. The holes in the webs are dimensioned to keep the shaft clampingly in position. Next the fuel reservoir 21 is slid into the sleeve 1, whereafter the intermediate member 3 is snapped into the sleeve 1, the resilient tongue or tongues 13, 14 snapping into the recesses beyond the ridges 17, 18 of the sleeve.

Finally the flame guard 33 is forced over the only moderately resilient lugs and snapped home, in normal use permanently. At the shaft 24 the flame guard 33 is so dimensioned that the inner dimension measured along the axis of the shaft is only slightly greater than the length of the shaft itself, thereby restraining the latter from sliding out of the closure cap.

This completes the assembly of this lighter.

NXTIAT BECLAIM IS : -

1. A cigarette lighter comprising a base member for housing a fuel reservoir and a flint holder, a head member comprising an ignition mechanism and carrying a flame guard, an intermediate member connecting said base member and said head member together and carrying the flint holder, the latter being formed integrally with said intermediate member, said intermediate member having a pilot section which mates with the upper edge of said base member, said pilot section having two depending extensions at spaced points, said extensions, of which at least one is resilient being provided adjacent their