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(51) INT CL⁶
F16B 25/00

(52) UK CL (Edition Q)
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(56) Documents Cited
GB 2304849 A GB 1120844 A EP 0705987 A1
EP 0147515 A1 WO 97/44590 A1 US 5516248 A

(58) Field of Search
UK CL (Edition P) **F2H**
INT CL⁶ **F16B 25/00**

(54) Abstract Title
Self countersinking screw

(57) A self countersinking screw has cutting serrations on the underside of the screw head. The serrations are provided by blades which may be straight or curved (Fig 2), in line with the longitudinal axis of the screw (Fig 3), or offset at an angle. Alternatively, the serrations are provided by spikes (Fig 4) on the underside of the screw head.

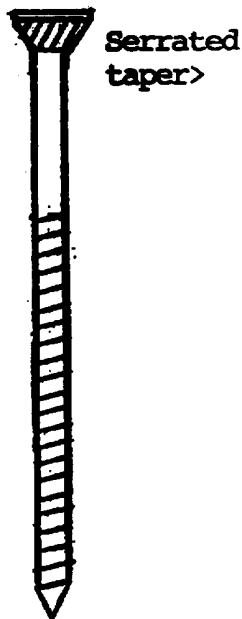


Fig. 1

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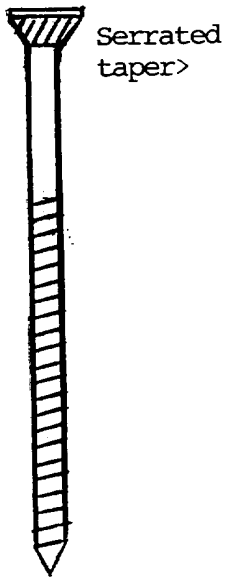


Fig. 1

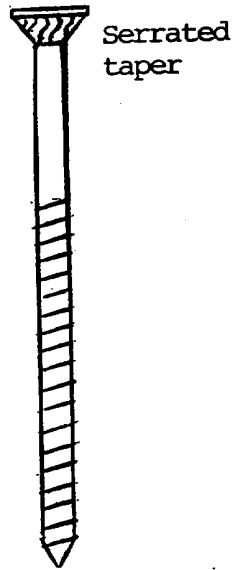


Fig. 2

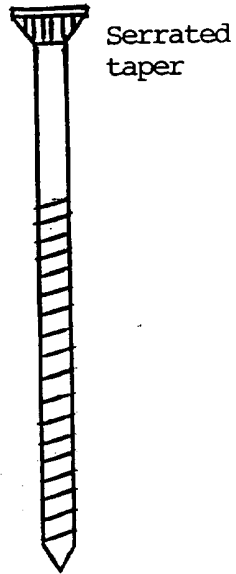


Fig. 3

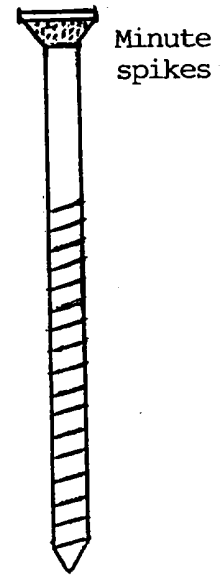


Fig. 4

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Description.

The invention relates to taper screws for either wood or metal.

Screws have the disadvantage of not always being able to be screwed far enough into the material so as to be flush or below the surface without the material first being countersunk.

With my invention the screwhead would be serrated on the 90° included angled taper.

As in fig.1 the serrations would be angled.

As in fig.2 the serrations would be curved.

As in fig.3 the serrations would be straight.

As in fig.4 there are many protruding minute sharp spikes.

Claims.

A serrated screw would enable the screw to enter the material to surface level or below.



Application No: GB 9807807.4
Claims searched: 1

Examiner: Robert H Games
Date of search: 13 October 1998

Patents Act 1977
Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:
UK CI (Ed.P): F2H
Int CI (Ed.6): F16B 25/00
Other:

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	GB 2304849 A (KURO-TAI HSU) see countersinking ribs 31	1
X	GB 1120844 (HARRINGTON) see teeth 12 and cutting edges 13	1
X	EP 0705987 A1 (VYNEX) see cutting ribs 21	1
X	EP 0147515 A1 (RICHTER-SYSTEM) see ribs 4	1
X	WO 97/44590 A1 (LIEGGI) see auger threads 38,40	1
X	US 5516248 (ABBOTT-INTERFAST) see cutting ridges 36	1

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.