

**FD2 – Drafting of Specifications
FINAL Mark Scheme 2021**

Introduction and Description

Title	1 mark
Statement of field (technical field of invention)	1 mark
Prior Art	
Discussion of magnetised screwdriver (and wingnut)	
Discussion of main problems set out by client and which the invention solves	2 marks
Statements of invention and general description	
Discussion of most pertinent features claimed	14 marks
Figures:	
Figure description – preamble (invention will be described with reference to....; like elements with like numerals), appropriate description and labelling	2 marks
Specific description:	
Description of device + screw	
Explanation of how both embodiments of invention operate	
Description of combinations/kits	15 marks
	TOTAL: 35 marks

Claims

Independent apparatus claims	40 marks
Dependent claims	20 marks
	TOTAL: 60 marks

Abstract

Title	1/2 mark
Figure	1/2 mark
Text	
Must state: Technical field or main use, description of main features of the device, screw, kit (if claimed), use of reference numerals	4 marks
	TOTAL: 5 marks
	Grand Total = 100 marks

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Suggested Claims:

Independent Claims:

No.	Claim feature	Marks
A	A screw gripping (/stabilising) device attachable to a screwdriver and for gripping a screw located on the end of the screwdriver, the screw having a head with notches in the side thereof the device comprising:	4
i)	a collar (means of some sort) configured (or comprising connection means) to receive the shaft of the screwdriver therethrough and to secure the device to the screwdriver; and	3
ii)	a plurality of (one or more) moveable arms, wherein each arm is coupled/integral to the collar at one end and is configured to extend longitudinally towards the tip of a screwdriver in use, wherein each engagement arm comprises:	3
ii)a)	a first/upper arm part coupled to the collar at a distal end; and	8
ii)b)	a second/lower arm part (moveably) coupled at its distal end to the proximal end of the first/upper part	
	wherein the first/upper arm part is moveable relative to the second/lower arm part; and	
	wherein the proximal end of the second/lower arm comprises a(n engagement) protrusion which extends radially inwards from the second arm part;	
	wherein the protrusion (releasably) is radially moveable to engage with the notches; and	
iii)	a (releasable) tension mechanism attached to each moveable arm and configured to apply (longitudinal) tension to the lower arm part towards the collar to urge the screwdriver (blade/tip) into the head of the screw/resist the blade emerging from the screw head.	5
	marks for clarity, particularly the preamble, purpose of the engaging means and tension mechanism, releasable tension mechanism plus separating out the two components of the releasable mechanism and making sure the screw and screwdriver are not claimed as part of the device (claim "in use")	2
TOTAL		25

No.	Claim feature	Marks
B	A screw having a screwhead a threaded shank, the screwhead having a screwdriver engagement slot in an upper surface of the screwhead,	4
	wherein the screw further comprises / a plurality of one* or more notches in the (side of the) / arranged around a circumferential edge of the head, each notch shaped and arranged to receive an engagement protrusion of a screw securing device to assist in urging an associated screwdriver tip into engagement with the recess. <i>* needs to be clear from specification that single groove is not included</i>	6
TOTAL		10
Alternative if dependent on device:		

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	A (notched) screw having a threaded shaft and a screw head, the screwhead having a screwdriver engagement slot in an upper surface of the screwhead and a plurality of notches,	5
	wherein the notches are arranged around a circumferential edge of the screw head, each notch shaped and arranged to receive an engagement protrusion [3] of the screw securing device of any preceding claim	5
TOTAL		10

No.	Claim feature	Marks
C	A kit comprising a screwdriver and a device as claimed in claim (A) and any claims dependent thereon.	2
OR		
	A screw securing device as claimed in any one of Claims α - β coupled to a screwdriver / A screwdriver comprising the screw securing device of any of Claims α - β	2
TOTAL		2

No.	Claim feature	Marks
D	A kit comprising the device as claimed in claim (A) and <u>one or more</u> screws as claimed in Claim (B) and any claims dependent thereon.	3
TOTAL		3

The following examples of mark caps and restrictions apply if unnecessary limitations are included in the claims:

Catastrophic (0 marks)

Independent claim (clearly) lacks novelty

Claim (A) includes only one embodiment e.g. limited to three or more arms without good reason

Claim (A) includes or is limited to including a screwdriver (i.e. there is no separate claim to a device per se and an integral device plus a screwdriver)

Claim (B) is not possible to distinguish between the recess for a screwdriver blade per a conventional prior art screw, and the notches introduced by the client

Claim (B) no screwdriver slot without good reason

Claim (B) annular recess is included

Major (max 5 marks):

Claim (A) no tensioning mechanism, or the tension mechanism is not attached to or otherwise linked to the moveable arms, unless functionally described

Claim (A) the tension mechanism is not clearly capable of applying tension

Minor (deduct 2 marks each):

Claim (D) refers to a single screw per (B)

Claim (D) refers to screws other than the type set out in (B)

Any dependent claims below included as limitation(s) in the relevant independent claim

Total: 40 marks

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Dependent claims

No.	Claim feature	Marks
(A) Device		
a	the collar is securable / secured to the screwdriver via a threaded hole configured to receive a screw therein	1
b	the protrusions comprise two substantially parallel side walls	1
c	the protrusions are magnetic [/are magnetised]	1
d	the device of Claims A-z comprising at least three engagement arms	1
e	the moveable arms are linked/connected to each other and move together	1
f	one or more of the moveable arms further comprises a handle [1/2] to assist with the location of protrusions in notches. [1/2]	1
g	the tensioning mechanism comprises a (tension) spring [1] connected to each moveable arm [1/2] and to the collar [1/2]	2
h	the tensioning mechanism comprises a wire [1] connected to the moveable arm [1/2] and a ratchet connected to the collar. [1/2]	2
i	the first portion is pivotally attached to the collar [1/2], and the second portion is pivotally attached to the first portion [1/2]	1
j	the second portion is moveable radially with respect to the screwdriver (blade)/screw/axis of the shaft	1
k	the first portion is fixed to the collar [1/2] and the second portion is slidably attached to the first portion [1/2]	1
l	the second portion [1/2] is moveable radially with respect to the screwdriver (blade)/screw/axis of the shaft [1/2]	1
m	the distal end of each moveable arm is at least partially flexible/comprises flexible material	1
n [†]	the device is integral to (/integrated to or with) a screwdriver † - mark to be awarded here or as a kit claim for the device plus screwdriver (C)	1
(B) Screw		
o	the two or more / [plurality of notches are spaced substantially equally from each other	1
p	each of the notches comprises substantially parallel sides. OR each notch has at least two parallel sides which are configured to engage with corresponding parallel sides of engagement protrusions of the screw securing device	1
q	the two or more notches comprises three/four notches / wherein the plurality of notches is three/four	1
(C) Device + screwdriver		
r	the kit further comprises one or more screws as claimed in (B) and claims dependent thereon	1
(D) Device + screws		
s [‡]	the kit further comprises a screwdriver ‡ if not awarded as n)	1
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- Consider whether the preamble is correct and whether the claim is in a sensible place in the dependent claims when awarding mark.
- No marks are awarded for trivial claims.
- No or reduced marks should be awarded for apparatus features written purely in terms of a method.