

**FD2 – Drafting of Specifications  
FINAL Mark Scheme 2022**

**Introduction and Description**

Title [ $\frac{1}{2}$  mark for a title +  $\frac{1}{2}$  mark for title to reflect accurately what is claimed] **1 mark**

Statement of field (technical field of invention) **1 mark**

Prior Art  
Stand on edge or end of face/ visual check of other corner(s), use of wedge, note wedge being marked (1/2 each). Problem(s) addressed set out (1/2) **2 marks**

Statements of invention and general description  
Generally an express statement of what the feature of each claim *does* [ $\frac{1}{2}$  mark] and corresponding *advantage* [ $\frac{1}{2}$  mark] is rewarded in line with the feature groupings below.  
The same will apply even if there is no corresponding claim. **19 marks**

Figures:  
i) Page numbering on figure pages **1/2 mark**  
ii) Feature numbering on figures **1/2 mark**  
iii) Figure description – prior art figures need to be clearly described as such **2 marks**

Specific description:  
Explanation of how invention works conceptually, including  
Candidates should describe structure, function and operation (up to 6 marks for the device and fallbacks, and up to 8 marks for clarity as to the distinctions between the method, and variants). **14 marks**  
**TOTAL: 40 marks**

**Claims**

Independent apparatus claim (up to) **19 marks**  
Dependent claims **19 marks**

Method claim **5 marks**  
Dependent claim(s) **12 marks**

**TOTAL: 55 marks**

**Abstract**

Title **1/2 mark**

Figure **1/2 mark**

Text

**FD2 – Drafting of Specifications  
FINAL Mark Scheme 2022**

- must state: technical field or main use [1], description of main features of the device [1.1/2], that there is a method [1/2], and detail thereof [1/2] consistent use of reference numerals [1/2] (*ensure content is consistent with claims, but not just a copy thereof*)

**4 marks**

**TOTAL: 5 marks**

**Grand Total = 100 marks**

**FD2 – Drafting of Specifications  
FINAL Mark Scheme 2022**

**Suggested Independent device/ apparatus claim (Statement of invention, up to 3 marks):**

A device for measuring the [warping or] deflection of a [wooden] pallet [1\*], comprising:

- [up to 3 marks for:]
  - o a frame [1\*\*] comprising a flat surface [1\*\*] on to which [a face of] a pallet can be placed [1\*\*],
- [up to 5 marks for:]
  - o a releasable securing means [1\*\*] coupled to the frame [1\*\*] and configured to releasably secure a[n edge and/ or] corner of the pallet [2\*\*] against the flat surface [1\*\*],
- [up to 6 marks for:]
  - o a measuring means [1\*\*] coupled to the frame [1\*\*] and configured to measure deflection [1\*\*] of a different [edge and/ or] corner [2\*\*] of the pallet to that securable by the releasable securing means from the flat surface [1\*\*]

[up to 4 marks for clarity]

*[\*- Marks are for clearly not including a pallet to the claim and an appropriate “for” clause]*

*[\*\*- Examples of where claim marks may be given]*

*[Marks are awarded regardless if the candidate explains the purpose of the essential features against them or in a wherein/ in use type clause.*

*For example,*

- o wherein/ in use,
- o when a [wooden] pallet is secured by the releasable securing means against the flat surface,
  - [and in a claim where this is present] the measuring means is configured to measure deflection of a different corner of the pallet to that secured by the releasable securing means from the flat surface].

If the claim includes only a frame and a releasable securing means (i.e. two parts only), the preamble must be appropriately worded, and to note- the statement of invention must align with the perceived advantage. Up to 2 marks are available for this claim (or part thereof) being clear. Marking Examiners will also consider the impact on any method claim(s).

Note, all 19 marks are available for this combination of 3 features, provided they appear in either one claim, or two, and if in two, the *measuring means* is expected to be in a reasonably high order claim, e.g. Claim 2 or 3.

**19 marks**

*An appropriate “system” or kit of parts type claim covering the device, with reference to pallet features, as well as options for use of the pallet per the method claims set out below is eligible for marks for those method claims as well as these device claims, but not the device and method claims as well.*

**FD2 – Drafting of Specifications**  
**FINAL Mark Scheme 2022**

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

Catastrophic (0 marks)

- The claim is not novel
- All embodiments are not claimable

Max 10 marks

- A pallet is included with the claim.
- A claim which is limited to only when the device is in use, e.g. that the pallet is rotated in any direction is included in the claim.

Deduct 5 marks each:

- Any features from the dependent claims set out below, or any other unnecessary limitation

**FD2 – Drafting of Specifications  
FINAL Mark Scheme 2022**

**Dependent claims**

*Marks are halved where dependencies are incorrect - see notes at the end.*

**(Dimensions – statements of invention, up to 1 mark)**

a. The frame is sized to accommodate a pallet wherein the upper and lower faces [1] comprise a width and depth of 120cm each and the sides are [/ the faces are spaced apart by] a maximum of/ up to 20cm [1].

*[NB Claim language can refer to receipt of a pallet of these dimension, or the frame itself sized accordingly. Max 1 mark if the pallet is referred to in general in terms of “120x120x20”]*

b. The frame is configured to receive 3 corners of a face of a pallet [1]

c. The frame is configured to receive all 4 corners of a face [/ the whole of one face] of a pallet [1]

(4)

**(Material)**

d. The frame is formed from a substantially rigid material [1]

e. The substantially rigid material comprises composite and/ or steel [1]

(2)

**(Alignment of the frame itself – statements of invention, up to 2 marks)**

f. The frame comprises alignment means [1/2] for ensuring alignment of the frame [itself] [1/2]

g. The frame comprises at least two alignment means [1]

h. Where in each of the alignment means is a laser level and/ or spirit level [1]

(3)

**(Releasable securing means – statements of invention, up to 2 marks)**

i. The releasable securing means comprises at least 2 releasable securing means [1]

j. The or each releasable securing means is located at a portion of the frame configured to receive a[n edge and/ or] corner of the pallet [1]

k. The or each releasable securing means comprises a clamp [/ clamping means] [1]

(3)

**(Measuring means – statements of invention, up to 4 marks)**

l. The measuring means comprises an upright [1]

m. The measuring means comprises a [marker which acts as] visual indication [of deflection] [1]

n. The visual indication can be [changed/ moved] by a user and secured in place [1]

o. The measuring means comprises at least one [1] wedge movable relative to the frame [1]

p. The at least one wedge comprises at least one [threshold] marking [1]

q. The measuring means comprises a laser level [1]

(7)

**(Method – statement of invention, up to 3 marks)**

r. A method of determining the warp of a pallet comprising [1];

- Releasably securing a first [edge and/ or] corner of a pallet to a flat surface of a frame [2]

- Measuring the deflection of a second [edge and/ or] corner away from the flat surface of the frame of the pallet to that releasably secured from the frame [2]

(5)

**FD2 – Drafting of Specifications  
FINAL Mark Scheme 2022**

Catastrophic (0 marks)

- Claim is not novel over Fig 2/ description thereof

Minor (deduct 2 marks each):

- Any feature(s) from the dependent claim below

**(Statement of invention, up to 1 mark for)**

s. - A method according to Claim r wherein the method steps are performed using the device of claims 1- p. [1]

[NB, any suitable language tying the method to the device of earlier claims is acceptable]

**(Statement of invention, up to 3 marks)**

t. A method according to claims (r or s) further comprising the steps of

- Releasing the pallet [1]
  - Removing the pallet from the frame [1] and
  - Either [1]
    - o rotating the pallet [1] to permit a releasable securing of a different corner [1]
  - and/ or [1]
    - o turning the pallet over [or flip] such that a lower face becomes an upper face [2]
  - before repeating the steps of [1]
    - o releasably securing the different [edge and/ or] corner of the pallet to the frame and [1]
    - o measuring the deflection of a[n edge and/ or] corner of the pallet different to that releasably secured to the frame [1]
- (11)

*[NB: If candidates simply refer to the steps of their earlier method claim as being repeated, both marks for the explanation are still available. There is no deduction if the two possible actions are in separate claims, provided the dependencies are correct and it is possible to have either rotation, and/ or the pallet is turned over or flipped]*

**For all dependent claims, TOTAL = 36 marks**

- 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 claims features written in terms of a method save the method claims themselves.

**{ENDS}**