

Construction

		Marks
1. A stockless anchor, comprising:	Need to discuss the function of a stock, is "stockless" no stock at all or	2
	only no stock at head end? Given reasons	
	What does the stock do (alignment)? P.11, II.12 - 13	
a shank (10) having a head end (12)	Terms of art, head and crown relative to attachment to cable or in use	1
and a crown end (16); and	position, what does a fluke do?	
a fluke arrangement (14) connected	Shank, how defined? P. 3, II. 28 0 30; p. 4, II. 9 – 10	
to the shank 10 at the crown end (16);		1
	Fluke/fluke arrangement? Allow 2 plates p. 4, II. 3 – 10	
characterised in that		
the fluke arrangement (14) includes:	"includes" is open wording, fluke arrangement includes the following	1
	features	
a bill (22) for penetrating the	How does "bill" relate to "fluke" bill is the point of a fluke that first	1
sea bed; and	engages & driven into the sea bed p.4 ll. 17 – 18	
a pair of blades (21) disposed	Must allow more than one bill	1
symmetrically on either side of a		
centre line (24) lying in a plane (x, x',	How does "blade" relate to "fluke arrangement"? p. 3, 31 - 35	1
x", x"") that includes the shank (10);	Must allow "pair of blades" to be a single piece structure p. 4 , l. 7	
		1



	Discuss arrangement of blades wrt plane of symmetry p. 4, ll 11 – 13,	
	20 – 22, 27 - 30	
	(or in construction of "fluke arrangement" above)	
wherein the distance between	Define the widest part (not defined in patent) Width across blades p. 4, II.	1
the outermost edges of the blades	31 – 33	
(21) increases from the front to the	"at or close to (not defined) more than half way/closer to	1
rear so as to be widest at or close to		
the rear of the fluke arrangement	What is "the rear" (not defined in patent)? Opposite end of fluke	1
(14).	arrangement to bill; opposite to direction of pull, or equivalent	
	Total for claim 1	12
2. An anchor as claimed in claim 1,		
wherein the shank (10) includes an	Include complete shank pivots wrt fluke arrangement and 2-part	1
articulated part (18) which is	construction with pivot part way along	
pivotable with respect to the fluke		
arrangement (14).		
	Total for claim 2	1
3. An anchor as claimed in claim 1 or		
2,		



wherein the bill (22) lies on or close	"on or close to", not defined in patent, must include not exactly on center	1
to the centre line (24).	line	
	what is this to achieve? Reduce twisting P. 4, II. 23 - 25	1
	Total for claim 3	2
4. An anchor as claimed in claim 3,		
wherein the fluke arrangement (14')	"Fixed" not defined in spec so discuss what this could mean; Only	1
is fixed with respect to the shank	makes sense if "fixed" = "no hinge" (Fig. 4)	
(10').	construe for fixed part of shank only as dependency 1+2+3 makes no	1
	sense	
	Total for claim 4	2
5. An anchor as claimed in any		
preceding claim,		
wherein the blades (21) extend from	Extends from: two plates joined along the centre line; single piece	1
the centre line (24) and define a	construction p.4, II. 3 – 10	
central ridge extending to the bill	What is a ridge? P. 4, I. 1	1
(22).		
	Total for claim 5	2



Dependencies	Inc. noting that Cl. 4 Dependency 1+2+3 makes no sense	1
	Total for Construction	20

Infringement

	Bettermore NG	Marks
1. A stockless anchor, comprising:	No stock, nothing at head end of shank, orientation of fluke due to shape	1
	of fluke, not separate stock or stabilizer structure	
a shank (10) having a head end (12)	Identify Shank 52, <u>limbs 52a, 52b</u> ; head and crown ends	1
and a crown end (16); and		
a fluke arrangement (14) connected	How does Fluke 53 correspond to "fluke arrangement" of claim; tapering	1
to the shank 10 at the crown end (16);	plates 56, 57/inside surfaces 59, 60; where is connection to shank?	
characterised in that		
the fluke arrangement (14) includes:		
a bill (22) for penetrating the	"point of the fluke 53" p. 8, II. 35 – 36/ identify in Fig. 1 (point of arrow	1
sea bed; and	from 53)	
a pair of blades (21) disposed		
symmetrically on either side of a	tapering plates 56, 57 consistent with construction of "blades'	1
centre line (24) lying in a plane (x, x',	Identify centre line (line between 52b and 53)	1
x", x") that includes the shank (10);	Identify plane including shank (plane through bar 52) p. 8, ll 30 – 33	1



Γ	wherein the distance between	Width corose blodge - width between tine of plates 56, 572	1
		Width across blades = width between tips of plates 56, 57?	'
	the outermost edges of the blades		
	(21) increases from the front to the	Rear = where 52b connects to fluke 53, Fig. 2,	1
	rear so as to be widest at or close to	Tips lie more than ½ way from front to rear, closer to rear than front, Fig.	1
	the rear of the fluke arrangement	2	
	(14).		
F		Infringed	
		Total for claim 1	10
ŀ			
F	2. An anchor as claimed in claim 1,		
	wherein the shank (10) includes an	shank is bar, p. 8, 29 – 30; Fig. 1 shows nothing that could be a pivot or	1
	articulated part (18) which is	articulation	
	pivotable with respect to the fluke		
	arrangement (14).		
F		Not infringed	
F		Total for claim 2	1
	3. An anchor as claimed in claim 1 or		
	2,		
L			



wherein the bill (22) lies on or close	wherein the bill (22) lies on or close Point of fluke 53 under shank 52 so cannot be seen in Fig. 2 but can		
to the centre line (24).	infer that it lies on centre line as fluke 53 is symmetric, p. 8, $\rm II~30-31,p.$		
	91.5		
	Infringed when dependent on claim 1, not infringed when dependent on	1	
	claim 2		
	Total for claim 3	2	
4. An anchor as claimed in claim 3,			
wherein the fluke arrangement (14')	Fluke 53 mounted on shank 52, p. 8, l. 32; Fluke 53 cannot move wrt	1	
is fixed with respect to the shank	shank 52; Fig. 1		
(10').			
	Infringed		
	Total for claim 4	1	
5. An anchor as claimed in any			
preceding claim,			
wherein the blades (21) extend from	Single fluke 53 described as two plates 56, 57; drawing shows plates	1	
the centre line (24) and define a	symmetrical either side of centre line		



central ridge extending to the bill	No ridge described or apparent in drawing, concave upward facing	
(22).	surface, p. 8, II .33- 34	
	Not infringed	
	Total for claim 5	2
Conclusions (including		2
dependencies)	Discussion of Actavis for non-infringed claims	2
	Total for Infringement	20

Novelty

Discussion of Fisherman's anchor: either not considered as evidently has a stock, or analysis showing novelty due to presence of stock

	CGK Stockless anchor (Doc C, p. 11		Doc C (Fig. 3 & 4 = description)	
	II. 14 – 22, Fig. 2)			
1. A stockless anchor, comprising:	Fig 2, p. 11, II. 14 – 15 "no stock at	1	NO if stock 103 & lateral extension	1
	the head end"		110 are construed together as the	
			stock and "stockless" = no stock at	
			all	
			Yes if "stockless" = no stock at	
			head end only, or if lateral	
			extensions 110 reasoned as	



			optional and stock 103 interpreted	
			as not same as stock of claim	
a shank (10) having a head	Shank 1', head end 6', crown end 2'	1	Shank 100, head end 112, crown	1
end (12) and a crown end (16); and	p. 11 II. 15 - 18		end 102, p. 11, l. 39 – p. 12, l. 1	
a fluke arrangement (14)			flukes 101 connected via "stock"	
connected to the shank 10 at the	Twin flukes 4'/Unit 3' p. 11, II. 16 - 17		103 at crown p. 11, l. 40 – p. 12, l.	
crown end (16);			1	
characterised in that				
the fluke arrangement (14)				
includes:				
a bill (22) for	not explicitly disclosed but tip of fluke	1	Point 105, p. 12, l. 5, p. 12, l. 15	1
penetrating the sea bed; and	4' in Fig. 2 = bill, same function		mentions contact of the point 105	
a pair of blades (21)			with sea bed	
disposed symmetrically on	Flukes 4' symmetrical about shank 1'		"twin fluke unit" p. 11, l. 40	1
either side of a centre line (24)	, not explicit but can be inferred from		Centre line p. 12, l. 16 centre line	1
lying in a plane (x, x', x"', x"")	Fig. 2		of "the shank"	
that includes the shank (10);			not explicit but shown in Fig. 4,	
			flukes 101 are symmetric about the	
			shank 112 and therefore about the	
			centre line	



wherein the distance	No - Widest part of fluke 4' less than	1	Fluke 101 wider at rear than front	1
between the outermost edges	½ way toward the rear, not explicit		(Figs. 3 & 4)	
of the blades (21) increases	(Fig. 2, widest part that engages sea		Widest point more than ½ way to	
from the front to the rear so as	bed is less than ½ way to rear of unit		rear (Fig. 4)	
to be widest at or close to the	3') [consistent with construction]			
rear of the fluke arrangement				
(14).				
	Novel		Novel/Not Novel	
	Sub-total	4	Sub-total	6
2. An anchor as claimed in claim 1,				
wherein the shank (10) includes an articulated part (18) which is pivotable with respect to the fluke arrangement (14).	Unit 3', pivoted at the crown end 2' of shank1' p. 11, l. 18	1	stock 103 which passes through a hole in the crown 102 and the end of the shank 100 to act as a pivot p. 11, II. 40 – 41	1
	Novel		Novel/Not Novel (following claim 1)	
	Sub-total Sub-total	1	Sub-total	1



3. An anchor as claimed in				
claim 1 or 2,				
wherein the bill (22) lies on or close to the centre line (24).	NO – refer to Fig 2 showing spaced flukes 4', also p. 11, II. 20 – 22 discusses twisting problem this feature is trying to solve	1	No - The space between the flukes needs to be large enough that the shank can sit between them p. 12, II. 16 – 17 Or Yes "keep the spacing between 15 the points 105 of the flukes as small as possible so that contact with the seabed is close to the centre line of the shank." p.12, II. 12 - 16 Novel/Not Novel	1
	Sub-total	1	Sub-total	1
4. An anchor as claimed in claim 3,				



wherein the fluke arrangement	NO –(articulated) consistent with	1	NO- (articulated) consistent with	1
(14') is fixed with respect to the	claim 2		claim 2	
shank (10').				
	Novel		Novel	
	Sub-total	1	Sub-total	1
5. An anchor as claimed in any				
preceding claim,				
wherein the blades (21) extend	No – Fig 2: separate flukes, no ridge	1	No - The space between the flukes	1
from the centre line (24) and			needs to be large enough that the	
define a central ridge extending			shank can sit between them p. 12,	
to the bill (22).			II. 16 – 17	
			Cannot have central ridge in plane	
			of shank	
	Novel		Novel	
	Sub-total Sub-total	1	Sub-total	1
Conclusions (consistency with				1
construction and conclusions				
on other claims)				
			Total for Novelty	20



Inventive Step

The mark scheme outlined below is one possible line of argument. You should not mark candidates down just because they have followed a different line of argumentation, but awards marks as appropriate consistent with this scheme.

	Marks
Doc C is prior art as published before filing date (may be in Novelty)	1
PSA = designer & manufacturer of anchors for all types of vessels	1
(client's letter mentions commercial shipping and larger vessels; &	
"ships and other floating vessels" p. 3, II. 4 - 5)	
Doc C p. 11, II. 14 – 22, Figs 1 & 2 are CGK, see client's letter	1
	3

Claim 1	e.g.	Marks
Concept	flukes self-bury and progressively increase drag as anchor buries	
	p. 3, l. 6; p. 4, ll. 30 - 33	
State of the art	Doc C (Figs. 3 & 4, p. 11 l. 23 onwards)	
Difference	P. 12, II. 19 – 26 proposes use of stock to position fluke to engage	
	and enter ground	
	Difference is either absence of stock completely or absence of	
	stock at head end depending on construction	
Obviousness	Function of stock not relevant to concept	



	Doc C notes problem of stock at head end	
	"The anchor <u>can</u> be provided with a stock at the after end." =	
	optional	
	Not inventive	
	Total for claim 1	4
Claim 2	e.g.	
Concept	improved orientation of flukes when setting p. 4, ll. 19 – 23	
State of the Art	Doc C	
Difference	Doc. C P. 12, II. 19 – 26 proposes use of stock to position fluke to	
	engage and enter ground Doc C also discloses articulation of the	
	shank albeit for different reasons (fold flat for storage). Purpose is	
	not recited in claim so structure not different	
Obviousness	Same as claim 1 because no further difference	
	Not inventive	
	Total for claim 2	3
Claim 3	e.g.	
Concept	To reduce twisting forces p. 4, I. 24	
State of the art	Doc C	



Difference	Flukes spaced apart to allow shank to sit between them p. 12 ll.	
	16 – 18	
Obviousness	Doc C indicates keeping spacing to a minimum preferable to	
	reduce twisting p. 12, II. 12 - 14	
	Not inventive	
	Total for claim 3	4
Claim 4	e.g.	
Concept	Structurally simpler and stronger P. 4 II. 39 – 40	
State of the art	Doc C	
Difference	flukes fixed wrt shank	
Obviousness	Doc C needs pivot to fold flat when stored and to position when	
	set p. 12, II. 16 - 18	
	Inventive	
	Total for claim 4	4
Claim 5	e.g.	
Concept	Specific embodiment, no concept indicated p. 4, II. 3 - 8	
State of the art	Doc C	
Difference	Shape of fluke arrangement	



Obviousness	Doc C has to allow shank to pass between blades p. 12, Il. 16 -	
	18 so cannot have a central ridge	
	Inventive	
	Total for claim 5	3
Argumentation	Consistency of arguments between claims and detailed support	4
	for conclusions; different outcomes for different dependencies	
	Total for Inventive Step	25



Amendment/Sufficiency

No sufficiency issues (explicit)	1
Amendment: Claim 1 + wherein the blades extend from the centre line.	1 (or any other claim that is novel, inventive, and infringed, e.g. claim
3)	
Basis: claim 5/ page 5 I. 20 – 25	1
Arguments why amendment without ridge possible	1
Novelty & Inventive Step	1
Total for Amendment/Sufficiency	5



Advice

Amendment (up to 5)

Amend before contacting Bettermore

Discuss why amendment to claim 4 not desirable (excludes client's main product)

Where to amend?

UK IPO pros/cons

EPO central limitation pros/cons

Impact on licensees

Put Bettermore on notice, threats not an issue, when? (up to 1)

UK IPO opinion on infringement useful for negotiation (up to 2)

Before/after amendment? Why?

How does use on ships/ oil rigs affect infringement position? (up to 1)

General advice relating to litigation and enforcement (up to 1)

Total for Advice 10 Marks