

Construction

		Marks
1. A rope descending device for	Device for braking, controlling rate of descent a load on a rope running	2
slowing the speed of descent of a load on a	through the device p. 3, ll. 14-15, 20-21	
rope, comprising	load can be person i.e. descending the rope (p. 3, ll. 5-7) or load	
	attached to rope but not limited to this	
a ring defining an inner aperture, said	p. 4, II. 32-33 (e.g. straight sides, rounded ends), functional definition	2
aperture sized to accommodate the rope;	"frame"	
	the rope is not a part of claimed device so reference to rope only applies	
	to device in use	
a rail extending across the width of the	p. 4, II. 33-34, can be defined by loop (22), perpendicular to sides,	2
aperture,	extends side to side, extends across width of aperture p. 5, ll. 6-7, 10-11;	
	rail can be defined by separate ring(s) p.5, ll. 12-13, or integral rail p. 5, l.	
	27	
	construction must allow more than one rail, p. 5, l. 6, (see also	
	repercussive effect of Cl. 2), i.e. at least one	
said rail adapted to provide a force on the	"adapted to" = contact of rope with rail(s) provides friction force, p. 5, II.	1
rope; and	17-19	
	Forcing rope to more constrained or bent path p. 5, ll. 14-15	

	Total for claim 3	2
	5c); p. 5, ll. 6-7 describes 2 or more; 4 not shown or described, does this mean 2-4 rails or at least 2 rails? Either acceptable with reasoning	
	Must allow mixture of integral rail (Cl. 2) and separate loops (Figs 5b &	
	point only to Figs 5b and 5c (NOT Fig 5a)	
wherein the device comprises 2 to 4 rails.	Does not cover embodiment of Fig 4/5a, i.e. single rail embodiment;	2
to claim 1 or claim 2,		
3. A rope descending device according		
	Total for claim 2	1
	consistent with definition of rail claim 1	
ring.	must allow additional, non-integral rails to be consistent with disclosure	
0		1
to claim 1, wherein the rail is integrally formed with the	p. 5, II. 27-29, but definition cannot be limited to all rails being integral ,	1
2. A rope descending device according		
	Total for claim 1	9
linear.		
through the rope descending device is	= preventing twisting p. 6 II. 2-7	
configured such that the path of the rope	bends through less than 90 degrees in a side-to-side direction, purpose	
wherein the rail and the aperture are	p.4, l. 38-p. 5, l. 2 path in plan view from end to end; p. 5, ll. 42-43:	1
the rope descending device;	harness	
neans for connecting the ring to the user of	p. 5, II. 23-26: openings in plate, carabiner, rope, attach to user's	1

 A rope descending device according to claim 3, 		
wherein the width of the rails occupies	p. 5, ll. 14, 21-22, Width of the rails = space of aperture	2
substantially all of the aperture.	obstructed/occupied by rails but leave space for rope, if maximal level of	
	friction noted, need consistency throughout answer	
	measured in different direction to width of aperture– Fig 5b 5c;	
	Total for claim 4	2
5. A method of braking a load on a	p. 5, Il. 30-36, independent method claim, not a dependent claim but	1
rope using the device of claim 1-4, said	refers back to device of claims 1-4 so link to construction of claims 1-4;	
method comprising;	esp. braking vs. controlling, not limited to a complete halt	
securing the rope descending device to a	p. 5, II. 25-26: attach to user's harness	1
user;		
securing one end of the rope to a load;	Not explicit apart from claim, distinguish from load/climber attached to	1
	device; p. 3, ll. 6-7, 15,; "load" is different to stationary user p. 5. ll. 34-36	
adding one or more rails extending across	p. 5, ll. 12-13, 28-29, device of Cl 1 already has "a rail" so "adding" can	1
he width of the aperture of the rope	mean more than 1 rail is present	
descending device, said rails adapted to	OR	
provide a force on the rope;	this is the step of adding the rail of claim 1, i.e. completing the device of	
	claim 1	
	either acceptable with appropriate reasoning	

passing the rope through the device in a	p. 5, ll. 42-43: bends through less than 90 degrees in a side-to-side	1
linear manner; and	direction	
	(note "support" rope is an error in spare claims)	
lowering the load, whereby the user controls	p. 5, ll. 34-36 user remains stationary,	2
the rate of descent of the load by varying	p. 3, I. 24 angle of rope affects friction; p. 4, II. 36-37 raise or lower rope	
the level of friction provided by the device.	to alter angle of bend	
	Total for claim 5	7
Dependencies		1
	Total for Construction	22

Infringement

Candidate's answer must clearly show how the features of the infringement are related to the claim language, not just the re-written language from the construction

	Document B	Marks
1. A rope descending device for	p. 11, l. 1 "mechanical rope brake" control speed of descent p. 11, ll. 9-	1
slowing the speed of descent of a load on a	10 (or other equivalent description from Doc B)	
rope, comprising		
a ring defining an inner aperture, said	p. 11, ll. 22-23, metal plate, one or two slots, allow rope to pass through	1
aperture sized to accommodate the rope;		
a rail extending across the width of the	p. 11, II. 25-26 rope bends around and rubs against carabiner; Fig 3b	1
aperture, said rail adapted to provide a force	p. 11, II. 30-31 carabiner is "an essential part of the device" so device is	
on the rope; and	plate + carabiner	
	Fig. 2: bar between two slots is <u>not</u> rail; if interpreted as rail, must	
	explain how carabiner is to be used consistent with instructions in Doc B,	
	must explain how device can be used as a mechanical rope brake in this	
	configuration	
means for connecting the ring to the user of	p. 11 II. 28-30 cord hole & cord (not in use)	2
the rope descending device;	p. 11, II. 23-24 carabiner clipped to the belayer (in use)	
wherein the rail and the aperture are	Fig 3a & 3b: shape of slot means rope must adopt a linear path, will not	1
configured such that the rope passes	bend more than 90 degrees side-to-side	
through the rope descending device in a		
linear fashion.		

	Infringed	
	Total for claim 1	6
2. A rope descending device according		
o claim 1,		
wherein the rail is integrally formed with the	p. 11, l. 31 cord to stop carabiner from being separated means it cannot	1
ing.	be integral (or if bar is rail then is integral)	
	Not Infringed (Infringed if bar is rail)	
	Total for claim 2	1
A rope descending device according	Claim 1 yes	
o claim 1 or claim 2,	Claim 2 no (or yes)	
wherein the device comprises 2 to 4 rails.	Only mentions 1 carabiner so not present OR	1
	Carabiner is second rail if bar is rail	
	Not Infringed for either dependency (Infringed for both if bar is rail)	
	Total for claim 3	1
4. A rope descending device according	Claim 3 not infringed (infringed)	
to claim 3,		
wherein the width of the rails occupies	Comment on number of rails: Only one rail (OR 2 rails if bar is rail)	2
substantially all of the aperture.		
	Fig 3b shows rope and rail together filing most of the space in the slot so	
	consistent with definition in patent p. 5, II. 21-22 (see patent fig 5c),	
	comment on bent or constrained path of the rope	
	Not Infringed (Infringed if bar is rail)	

	Total for claim 4	2
5. A method of braking a load on a	p. 11, l. 1 belaying device; p. 11, l. 7 belaying devices act as a friction	1
rope using the device of claim 1-4, said	brake	
method comprising;	See analysis of claim 1 for device	
securing the rope descending device to a	p. 11, ll. 23-24 carabiner clipped to belayer	1
user;		
securing one end of the rope to a load;	Fig. 1 fallen climber	1
adding one or more rails extending across	Consistent with construction and position on infringement of claim 3	1
the width of the aperture of the rope	AND	
descending device, said rails adapted to	Adding carabiner adds one rail	
provide a force on the rope;		
passing the rope through the device in a	p. 11, ll. 22-23 rope passes through slot	1
linear manner; and	Fig 3 shape of slot means rope must adopt a linear path	
lowering the load, whereby the user controls	p. 11, II. 17-21 position of rope used to vary friction	1
the rate of descent of the load by varying		
the level of friction provided by the device.		
	Not Infringed	
	Total for claim 5	6

Conclusions	Conclusions	1
	Discussion of direct or contributory infringer, or Actavis for non-infringed	2
	claims. If so, present analysis. No Actavis infringement expected	
	Total for Infringement	19

Novelty

Date for assessing novelty: Priority Date – claims 1 – 4; Filing Date – Claim 5 (why, what subject matter changed between PD and FD?) 1

Prior Art: CGK (Doc A, Fig. 2); Doc C; Prior Use (p. 2, II. 21-30) for claim 5 only

	Carabiner Brake		Figure Eight (Doc C)		Prior Use (Doc A)	
	(Doc A CGK)					
1. A rope descending device	p. 3, l. 25 carabiner	1	p. 13, l. 1, descender	1		
for slowing the speed of descent	brake = rope descending		device			
of a load on a rope, comprising	device		Fig 1 & 2			
	Fig 2					
a ring defining an inner aperture,	Carabiner B p. 3, II. 30-	1	Upper ring 3, p. 13, II. 5-6	1		
said aperture sized to	31	(need	Larger hole 6, p. 13, l. 10			
accommodate the rope;		all 3	Rope 24 through larger			
		for full	hole 6, p. 13, ll. 9-10			
		mark)	OR			
			Rings 3 and 4 together			
			define ring			
a rail extending across the width	Carabiner A p. 3, II. 30-		Is neck a rail and is it	1		
of the aperture, said rail adapted	31, 34		"adapted?			
to provide a force on the rope;			neck 5 is rail by virtue of			
and			function, or not because			
			position is outside hole 6;			
			OR			

1

			neck 5 is rail if both rings		
			3 and 4 define ring of		
			claim		
			Either acceptable if		
			consistent with		
			construction of ring/rail		
means for connecting the ring to	Carabiner D p. 3, ll. 32-		Lower ring 4, p. 13, ll. 7-8	1	
the user of the rope descending	33		connect to harness of		
device;			climber		
wherein the rail and the aperture	Rope C, Fig. 2 explain	1	Fig 2 shows deviation in	1	
are configured such that the rope	how "linear" consistent	•	more than one plane so		
-					
passes through the rope	with construction		not present p. 4, ll. 8-9		
descending device in a linear			p. 13, ll. 9-11: "up", "over",		
fashion.			"under"		
	Not Novel		Novel		
	Sub-total	3	Sub-total	5	
			Total Claim 1	8	
2. A rope descending device					
according to claim 1,					
wherein the rail is integrally	Separate carabiner A	0.5	Neck 5 is shown as part	0.5	
formed with the ring.	Not present		of device (Fig 1) so		
			integral		

			Present/not present		
			consistent with cl. 1 view		
			of neck 5		
	Novel		Novel (by dependency)		
	Sub-total	0.5	Sub-total	0.5	
			Total Claim 2	1	
3. A rope descending device					
according to claim 1 or claim 2,					
wherein the device comprises 2	Only mentions one brake	0.5	Neck 5 is single structure,	0.5	
to 4 rails.	carabiner A		no other rails shown		
	Not present		Not present		
	Novel		Novel		
	Sub-total	0.5	Sub-total	0.5	
			Total Claim 3	1	
4. A rope descending device					
according to claim 3,					
wherein the width of the rails	Only 1 rail (or all	1	Fig 2 shows large space	1	
occupies substantially all of the	features of claim 3 not		in hole 6 when rope 24 is		
aperture.	present) AND		present, p. 13, ll. 16-20		
	Fig 2 shows large space		discusses level of friction		
	around rope C in		Not present		
	carabiner A				
	Not present				

	Novel		Novel			
	Sub-total	1	Sub-total	1		
			Total Claim 4	2		
5. A method of braking a	Device of claim 1	1	Only discloses controlling		p. 2, II. 21-22	1
load on a rope using the device	disclosed so device	(need	climber's descent		lowering fallen	
of claim 1-4, said method	present; method not	both			climber on a	
comprising;	explicitly disclosed for	for full			stretcher (load)	
	carabiner brake but	mark)				
	implicit from p. 3, II. 8-18					
securing the rope descending	See corresponding		See corresponding		(p. 5, ll. 23-26,	1
device to a user;	feature in claim 1 above		feature in claim 1 above		connect device to	(need
	p.3 II. 32-33				user's harness)	both
securing one end of the rope to a	No load separate from	1	End secured to anchor	1	p. 2, II. 23-24	for full
load;	user		point, p. 13, l. 12, not load		climber on a	mark)
	Not present		Not present		stretcher	
adding one or more rails	"Assembly" p.3 II. 25 and	1	Not disclosed, neck is		p. 2, ll. 26-27	1
extending across the width of the	35		integral		adding or	
aperture of the rope descending	p.3, II. 35-37				removing loops to	
device, said rails adapted to	Is this "adding"				vary level of	
provide a force on the rope;	consistent with				friction	
	construction?					

			Total for Novelty			26
			use considered)			
			Conclusions (only if prior			1
					Total for Claim 5	11
	Sub-total	4	Sub-total	3	Sub-total	4
	Novel		Novel		Not Novel	
			Not present			
			user, not load			
friction provided by the device.			19; Fig. 2 but lowering			
of the load by varying the level of			friction p. 13, ll. 13-14, 18-			
user controls the rate of descent	(see above)		by controlling level of		in use	
lowering the load, whereby the	Not disclosed, no load	1	Rate of descent controlled	1	p. 2, l. 26, implicit	mark)
	feature in claim 1 above					for full
	corresponding linear		claim 1 above			both
device in a linear manner; and	consistent with		corresponding feature in		"linear fashion")	(need
passing the rope through the	Implicit from Fig. 2	1	Not present, See	1	(p. 5, ll. 42-43	1

Inventive Step

	Marks
Prior art = Doc C (Cl. $1 - 4$); Prior Use/Client Letter (Cl. 5) mark	
awarded in novelty	
PSA = Designer of safety equipment for climbing & abseiling for	1
claims 1-4, user for claim 5	
CGK = Doc A, p. 3, II. 8-39 both designer and user, if Doc C explain	1
why (p. 2, l. 40?)	
	2

Claim 1		Marks
Concept	avoid multiple changes in direction of rope p. 6, l. 6	
State of the art	carabiner brake	1
Difference	no difference if carabiner brake	
Obviousness	Concept of claim 1 is known, does not provide solution to twisting	
	carabiner brake has linear path but also problem with twisting (p.	
	3, 37-39);	
	Total for claim 1	3
Claim 2		
Concept	Simplify manufacture p. 5, l. 28	1
State of the Art	Doc C describes an integral device	

Differences	Rail secured to frame across the aperture in single piece	
	construction, linear path	
Obviousness	Doc C has neck integral with ring, neck has similar function to rail	
	but no linear path possible in Doc C and would change how Doc	
	C works so probably not obvious	
	Total for claim 2	5
Claim 3		
Concept	Vary level of friction	1
State of the art	Doc C	
Difference	Multiple rails	
Obviousness	Not present or suggested in Doc C or CGK	2
	Total for claim 3	4
Claim 4		
Concept	Maximize friction	1
State of the art	Doc C	
Difference	Reduced space increases friction force	
Obviousness	Not present or suggested in Doc C or CGK	2

	Total for claim 4	4
Claim 5	Explain that no Pozzoli analysis possible because state of the art is the patentee's prior use of their claimed method. There can be no differences or new concept.	2
Concept		-
State of the art		-
Difference		-
Obviousness	Obvious/not novel	-
	Total for claim 5	2
	Conclusions	1
	Total for Inventive Step	21

Amendment/Sufficiency

No sufficiency issues	1
No Amendments can improve position for infringement, OR any amendment to improve novelty or inventive step notin	g effect on infringement
(may be in advice)	1
Total for Amendment/Sufficiency	2

Advice 10 Marks

Ask client for videos and device (1)

Comment on how YouTube evidence might be used, any deficiencies. (1)

Client's questions: (up to 4)

What needs to be resolved before start manufacturing in the UK?

Renewals up to date how does this affect patentee's ability to act? (1)

Consider IPO opinion on validity, revocation action UKIPO, IPEC, HC? (1)

Invalidating claim 5 affects contributory infringement (1)

The patentee's device never took off, so consider licensing discussions if any claims are valid and infringed, if invalid possibility of royalty free licence (1)

Up to 4 from:

Summarise position today (infringing but invalid), what might client expect (infringement proceedings, defence/counterclaim of invalidity)? (1) Which parties might be infringing? Consider private users or commercial users. If contributory infringement, who is end user? (1) How might patentee take action? Warning letter (why not an actionable threat?), letter before action, action in IPEC, HC (1) Advice about liability if starting UK manufacture, what about contributory infringement if only producing plate? (1) Possibility to stop importing into the UK vs. abandoning 25% of their market abandoning sales in the UK wouldn't be a good idea. (1)