U.S. Patent No. 5,655,365 – Orbital's Construc

Term No.	Proposed Term or Phrase	Construction	Support ¹
1	Fuelling rate (1, 2)	mass of fuel per cylinder per cycle.	 '365 Patent Specification Abstract Col. 2:3-6 Col. 3:10-12 Col. 3:48-52 Col. 4:6-11 Col. 5:50-57 Extrinsic Evidence Expert testimony may be provided regarding to f this claim term in the context of the ordin the priority date of this patent.
2	the timing of the introduction of fuel into the at least one cylinder being maintained at before top dead centre (BTDC) (1)	Start of injection for at least one cylinder is before top-dead-center.	 '365 Patent Specification Fig. 1 and Fig. 2 Col. 2: 9-10, 12-14, 59-63 Col. 3: 1-3, 5-8 Extrinsic Evidence Expert testimony may be provided regarding t of this claim term in the context of the ordin the priority date of this patent.

¹ References to figures include the corresponding description in the specification, and references to the specification include the reference.



3	up to about 30° ATDC (5)	within a window from 0 to 30 degrees after top dead center.	 Claim 6 Fig. 2 Col. 1:65 – Col.2:3 Col. 3:1-9 Col. 3:41-44 Extrinsic Evidence Expert testimony may be provided regarding t of this claim term in the context of the ordin the priority date of this patent.
4	fuel is introduced at between 60° to 80° BTDC. (9)	the start of injection occurs in the window between 80 to 60 degrees before top dead center.	 <u>'365 Patent Specification</u> Col. 2: 9-12 Figs. 1-2 Col. 3:1-9 <u>Extrinsic Evidence</u> Expert testimony may be provided regarding to f this claim term in the context of the ordin the priority date of this patent.



5	catalytic treatment	Structure:	'365 Patent Specification
	means	a device that contains a catalyst and	• Fig. 3
	(10, 12)	treats the exhaust gases from the	• Col.1: 4-9; 10-15
		engine to decrease the undesirable contaminants therein. Function: contains a catalyst and treats the exhaust gases from the engine to decrease the undesirable contaminants	• Col 2: 15-17, 23-25
			• Col 3: 13-16, 52-59
			• Col 4: 56-61
			• Col 5: 13-18
			• Col 6: 1-3
		therein	Extrinsic Evidence Expert testimony may be provided regarding to of this claim term in the context of the ord the priority date of this patent.
			Heywood, J.B., Internal Combustion Engine F Hill, 1988, at 649-657.
6	a level higher that that	a value greater than that demanded	365 Patent Specification
	required when the	when the catalytic converter is above	• Fig. 1
	engine is operating	its light-off temperature and ignition	• Abstract
	normally (1)	timing is before top-dead-center.	• Col. 1: 11-15; 19-21; 61-64
			• Col. 5: 24-29; 41-46
			EP365- 94904919 File History
			Letter to European Patent Office Boards of Ap 1998, Page 3
			Extrinsic Evidence
			Expert testimony may be provided regarding to of this claim term in the context of the ord the priority date of this patent.



7	maximum load (2)	Engine peak torque output.	 365 Patent Specification Col. 2: 3-6 Col. 3: 10-12 Extrinsic Evidence Expert testimony may be provided regarding to this claim term in the context of the ordinate priority date of this patent. Heywood, J.B., Internal Combustion Engine Fred Hill, 1988, at 46, 824-27, 873, and 883.
8	additional air is introduced upstream (12)	supplemental air is added into the exhaust system before the inlet	 365 Patent Specification Col. 2: 22-23 Col. 4: 1-6 Extrinsic Evidence Expert testimony may be provided regarding to of this claim term in the context of the ordinate priority date of this patent.
9	required operating temperature (14)	light off temperature, taken as the temperature at which the catalyst is 50% efficient.	 365 Patent Specification Col. 1:11-17; 19-21 Col. 5:15-18 Extrinsic Evidence Expert testimony may be provided regarding to of this claim term in the context of the ordinate priority date of this patent.



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	10	sensed or determined (14)	measured or identified	 365 Patent Specification Col. 2: 28-29 Col. 5: 8-12, 41-46 Extrinsic Evidence Expert testimony may be provided regarding to of this claim term in the context of the ordinate priority date of this patent.
	11	predetermined operating condition (18)	temperature of the catalytic treatment means is determined to be above the light-off temperature of the catalytic material.	 365 Patent Specification Col. 4: 62-67 Col. 5: 1-5; 24 -29 Extrinsic Evidence Expert testimony may be provided regarding to this claim term in the context of the ordinate priority date of this patent.
	12	normal operation (18)	functioning as when the catalytic convertor is above its light-off temperature and ignition timing is before top-dead-center	 365 Patent Specification Fig. 1 Abstract Col. 1: 11-15 Col. 1: 19-21 Col. 1: 61-64 Col. 5: 24-29; 41-46 Extrinsic Evidence Expert testimony may be provided regarding t of this claim term in the context of the ordin the priority date of this patent.



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