

Key:**IPR Wave:**

- 1 IPR 1 through 4 - April 2014
- 2 IPR 5 through 8 - June 2014
- 3 IPR 9 through 10 - Sept 2014
- 4 IPR 11 through 25 - Jan/Feb 2015

Green shading in "Ground" column indicates that IPR/Ground was NOT instituted

Patent No.	Ass. Claims	IPR Filing Date	IPR Name	IPR No.	IPR		Reference	
					Wave	Ground		
7,104,347	1	4/4/2014	IPR 03	IPR2014-00571	1	2	Ehsani Severinksy '970	
						3	Ehsani Severinksy '970	
				IPR 04	IPR2014-00579	1	1	Bumby I Bumby II Bumby III Bumby IV Bumby V
			6/5/2014	IPR 07	IPR2014-00884	2	1	Caraceni
			2/23/2015	IPR 22	IPR2015-00795	4	1	Ibaraki '882 Koide
	2		2/23/2015	IPR 22	IPR2015-00795	4	1	Ibaraki '882 Koide
	3		2/23/2015	IPR 22	IPR2015-00795	4	2	Frank '363 Ibaraki '882 Koide
	4		2/23/2015	IPR 22	IPR2015-00795	4	2	Frank '363 Ibaraki '882 Koide
	5		2/23/2015	IPR 22	IPR2015-00795	4	1	Ibaraki '882 Koide
	6		4/4/2014	IPR 03	IPR2014-00571	1	2	Ehsani Severinksy '970
	7		4/4/2014	IPR 03	IPR2014-00571	1	2	Ehsani Severinksy '970
							3	Ehsani Severinksy '970
				IPR 04	IPR2014-00579	1	1	Bumby I Bumby II Bumby III Bumby IV Bumby V

Patent No.	Ass. Claims	IPR Filing Date	IPR Name	IPR No.	IPR Wave	Ground	Reference	
7104347	7	6/5/2014	IPR 07	IPR2014-00884	2	1	Caraceni	
	8	4/4/2014	IPR 04	IPR2014-00579	1	1	Bumby I Bumby II Bumby III Bumby IV Bumby V	
	9	4/4/2014	IPR 03	IPR2014-00571	1	2	Ehsani Severinksy '970	
						3	Ehsani Severinksy '970	
	10	6/5/2014	IPR 07	IPR2014-00884	2	1	Caraceni	
	14	2/23/2015	IPR 22	IPR2015-00795	4	7	Ibaraki '882 Koide Lateur '280	
	15	4/4/2014	IPR 03	IPR2014-00571	1	2	Ehsani Severinksy '970	
						3	Ehsani Severinksy '970	
	16	2/23/2015	IPR 22	IPR2015-00795	4	3	Ibaraki '882 Kawakatsu Koide	
	18	4/4/2014	IPR 04	IPR2014-00579	1	1	Bumby I Bumby II Bumby III Bumby IV Bumby V	
	19	2/23/2015	IPR 22	IPR2015-00795	4	5	Ibaraki '882 Koide Yamaguchi	
	20	2/23/2015	IPR 22	IPR2015-00795	4	4	Ibaraki '882 Koide Vittone	
	21	4/4/2014	IPR 03	IPR2014-00571	1	2	Ehsani Severinksy '970	
						3	Ehsani Severinksy '970	
				IPR 04	IPR2014-00579	1	1	Bumby I Bumby II Bumby III Bumby IV Bumby V
			6/5/2014	IPR 07	IPR2014-00884	2	1	Caraceni
	22	2/23/2015	IPR 22	IPR2015-00795	4	6	Ibaraki '626 Ibaraki '882 Koide	
	23	4/4/2014	IPR 03	IPR2014-00571	1	1	Severinksy '970	

Patent No.	Ass. Claims	IPR Filing Date	IPR Name	IPR No.	IPR Wave	Ground	Reference
7104347	23	4/17/2013	IPR 04	IPR2014-00579	1	1	Bumby I
							Bumby II
							Bumby III
							Bumby IV
							Bumby V
	24	6/5/2014	IPR 07	IPR2014-00884	2	2	Tabata '201
							Tabata '541
		2/23/2015	IPR 21	IPR2015-00794	4	1	Ibaraki '882
							6/5/2014
		2/23/2015	IPR 21	IPR2015-00794	4	1	Ibaraki '882
							2/23/2015
		2/23/2015	IPR 21	IPR2015-00794	4	7	Ibaraki '882
							2/23/2015
		2/23/2015	IPR 21	IPR2015-00794	4	6	Ibaraki '882
							Lateur '280
		2/23/2015	IPR 21	IPR2015-00794	4	1	Ibaraki '882
							2/23/2015
		2/23/2015	IPR 21	IPR2015-00794	4	1	Ibaraki '882
							2/23/2015
		2/23/2015	IPR 21	IPR2015-00794	4	1	Ibaraki '882
							4/4/2014
		4/4/2014	IPR 04	IPR2014-00579	1	1	Bumby I
							Bumby II
2/23/2015	IPR 21	IPR2015-00794	4	3	Bumby III		
					Bumby IV		
2/23/2015	IPR 21	IPR2015-00794	4	4	Bumby V		
					Ibaraki '882		
2/23/2015	IPR 21	IPR2015-00794	4	4	Ibaraki '882		
					Vittone		
2/23/2015	IPR 21	IPR2015-00794	4	4	Ibaraki '882		
					Yamaguchi		
2/23/2015	IPR 21	IPR2015-00794	4	5	Ibaraki '626		
					Ibaraki '882		
7,237,634	1	6/5/2014	IPR 08	IPR2014-00904	2	1	Field
							SAE 1996
							Severinsky '970
	2/22/2015	IPR 15	IPR2015-00784	4	1	2	Ehsani
							Severinsky '970
	2/23/2015	IPR 18	IPR2015-00790	4	1	Ibaraki '882	
						Ibaraki '882	
	2/22/2015	IPR 15	IPR2015-00784	4	1	Yamaguchi	
						Ibaraki '882	
	2/22/2015	IPR 15	IPR2015-00784	4	1	Ibaraki '882	
						Ibaraki '882	
2/23/2015	IPR 18	IPR2015-00790	4	1	Ibaraki '882		
					Yamaguchi		
2/22/2015	IPR 15	IPR2015-00784	4	1	Ibaraki '882		
					Ibaraki '882		

Patent No.	Ass. Claims	IPR Filing Date	IPR Name	IPR No.	IPR		Reference	
					Wave	Ground		
7,237,634	6	2/22/2015	IPR 15	IPR2015-00784	4	2	Frank '363 Ibaraki '882	
	7	2/22/2015	IPR 15	IPR2015-00784	4	2	Frank '363 Ibaraki '882	
	8	2/22/2015	IPR 15	IPR2015-00784	4	2	Frank '363 Ibaraki '882	
	9	2/22/2015	IPR 15	IPR2015-00784	4	2	Frank '363 Ibaraki '882	
	10	2/22/2015	IPR 15	IPR2015-00784	4	2	Frank '363 Ibaraki '882	
	11	2/22/2015	IPR 15	IPR2015-00784	4	2	Frank '363 Ibaraki '882	
	12	2/22/2015	IPR 15	IPR2015-00784	4	1	Ibaraki '882	
	13	2/23/2015	IPR 18	IPR2015-00790	4	2	Ibaraki '882 Masding / Bumby 198	
	14	6/5/2014	IPR 08	IPR2014-00904	2	1	Field SAE 1996 Severinsky '970	
							2	Ehsani Severinsky '970
			2/23/2015	IPR 18	IPR2015-00790	4	2	Ibaraki '882 Masding / Bumby 198
	15	2/23/2015	IPR 18	IPR2015-00790	4	2	Ibaraki '882 Masding / Bumby 198	
	16	6/5/2014	IPR 08	IPR2014-00904	2	1	Field SAE 1996 Severinsky '970	
							2	Ehsani Severinsky '970
			2/22/2015	IPR 15	IPR2015-00784	4	1	Ibaraki '882
	17	2/22/2015	IPR 15	IPR2015-00784	4	1	Ibaraki '882	
	18	6/5/2014	IPR 08	IPR2014-00904	2	1	Field SAE 1996 Severinsky '970	
							2	Ehsani Severinsky '970
	19	2/22/2015	IPR 15	IPR2015-00784	4	1	Ibaraki '882	
	23	2/22/2015	IPR 15	IPR2015-00784	4	3	Ibaraki '882 Jurgen Lateur '280	
	24	6/5/2014	IPR 08	IPR2014-00904	2	1	Field SAE 1996 Severinsky '970	
							2	Ehsani Severinsky '970
	25	2/23/2015	IPR 18	IPR2015-00790	4	3	Ibaraki '882	

Patent No.	Ass. Claims	IPR Filing Date	IPR Name	IPR No.	IPR		Reference	
					Wave	Ground		
7,237,634	25	2/23/2015	IPR 18	IPR2015-00790	4	3	Kawakatsu	
	27	2/22/2015	IPR 15	IPR2015-00784	4	1	Ibaraki '882	
	28	2/23/2015	IPR 18	IPR2015-00790	4	1	Ibaraki '882 Yamaguchi	
	29	2/23/2015	IPR 18	IPR2015-00790	4	4	Ibaraki '882 Vittone	
	30	2/22/2015	IPR 15	IPR2015-00784	4	1	Ibaraki '882	
	32	2/23/2015	IPR 18	IPR2015-00790	4	5	Ibaraki '626 Ibaraki '882	
	33		2/22/2015	IPR 13	IPR2015-00722	4	1	Ibaraki '882
				IPR 19	IPR2015-00791	4	1	Ibaraki '882
			2/23/2015	IPR 17	IPR2015-00787	4	1	Ibaraki '882
	34	2/23/2015	IPR 17	IPR2015-00787	4	1	Ibaraki '882	
	35	2/23/2015	IPR 17	IPR2015-00787	4	1	Ibaraki '882	
	36	2/22/2015	IPR 13	IPR2015-00722	4	1	Ibaraki '882	
	37	2/22/2015	IPR 19	IPR2015-00791	4	1	Ibaraki '882	
	38	2/23/2015	IPR 17	IPR2015-00787	4	1	Ibaraki '882	
	39	2/22/2015	IPR 19	IPR2015-00791	4	2	Frank '363 Ibaraki '882	
	40	2/22/2015	IPR 19	IPR2015-00791	4	2	Frank '363 Ibaraki '882	
	41	2/22/2015	IPR 19	IPR2015-00791	4	4	Ibaraki '882 Jurgen Lateur '280	
	42	2/22/2015	IPR 13	IPR2015-00722	4	4	Ibaraki '882 Masding / Bumby 198	
	43	2/22/2015	IPR 13	IPR2015-00722	4	1	Ibaraki '882	
	44	2/22/2015	IPR 13	IPR2015-00722	4	1	Ibaraki '882	
	46	2/22/2015	IPR 13	IPR2015-00722	4	1	Ibaraki '882	
	50	2/22/2015	IPR 13	IPR2015-00722	4	1	Ibaraki '882	
	51	2/22/2015	IPR 13	IPR2015-00722	4	1	Ibaraki '882	
	52	2/22/2015	IPR 13	IPR2015-00722	4	1	Ibaraki '882	
	53	2/23/2015	IPR 17	IPR2015-00787	4	2	Ibaraki '882 Vittone	
	54	2/23/2015	IPR 17	IPR2015-00787	4	3	Ibaraki '882 Yamaguchi	
	55	2/22/2015	IPR 13	IPR2015-00722	4	2	Ibaraki '626 Ibaraki '882	
	56	1/28/2015	IPR 11	IPR2015-00606	4	1	455 Paice PCT Pub. Severinsky '970	
	57	1/28/2015	IPR 11	IPR2015-00606	4	1	455 Paice PCT Pub. Severinsky '970	
58	1/28/2015	IPR 11	IPR2015-00606	4	1	455 Paice PCT Pub. Severinsky '970		
59	1/28/2015	IPR 11	IPR2015-00606	4	1	455 Paice PCT Pub. Severinsky '970		

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