

Appendix C1: Patents

Author	Year	SAE level					
		0	1	2	3	4	5
Altmannshofer & Takahashi	2018	x	x	x			
Aoki & Hashimoto	2018				x	x	x
Arai & Nakai	2018	x			x	x	
Bertollini, Szczerba & Mathieu	2017			x	x	x	x
Bertollini, Szczerba & Mathieu	2018			x	x	x	x
Boule, Chick, Powell & Schubert	2018				x	x	x
Canac & Lajara	2015	x					
Christian & Mueller	2016	x	x	x	x	x	
Coopridge, Shen & Ibrahim	2012	x					
Ebina	2018			x	x		
Engstrom & Larsson	2006	x					
Fairgrieve, Hemes, Kelly, Dennehy & Anker	2015					x	x
Fairgrieve, Hemes, Kelly, Dennehy & Anker	2017			x	x	x	
Feit, Miller & Champi	2018	x	x	x			
Gall	2015	x					
Gordh & Vahtra	2013	x	x	x			
Hahne	2015	x	x	x	x		
Hashimoto, Torii & Taira	2016				x		
Hashimoto, Torii & Taira	2017				x		
Heckmann & Wersing	2015	x	x	x			
Hongsoo, Jaeseung & Kim	2017	x					
Hoye, Lambert & Sutton	2016	x					
Huang	2018					x	x
Iguchi	2018					x	x
Imai et al	2018		x	x	x		
Jablonski	2018		x	x	x	x	x
Jerusalem, Huth & Schmidt	2013	x	x	x	x		
Jones, Dacko & Kirby	2019			x	x	x	
Kashiba & Matsubara	2016				x		
Kato & Fujii	2018	x					
Kim	2015	x					
Kim	2018	x	x	x			
Ko, Choi & Jeon	2019	x					
Konet et al	2016	x					
Kornhaas	2015	x	x	x			
Korthauer & Placke	2010	x					
Kozman & Massoud	2018						x
Kumagai	2016	x					
Kurt, Redmill, Thomas & Ozguner	2018	x					
Lavoie, Bahena & Hochrein	2016	x		x			
Lee	2015					x	x
Levin, Westervall, Markkula, Kronberg & Victor	2015	x					
Liu, Sun, Yan & Zhang	2019				x	x	x
Lo	2008	x					
Makke & Kadry	2018	x					
Matsumoto	2016		x				
Matsumoto	2017		x				
Matsumura	2015	x					
McCarthy, Uhlmann & Lynam	2004	x					
McNew & Vladimerou	2016			x			
Miller & Tascillo	2004	x					
Miller & Tascillo	2005	x					
Miyahara et al	2018				x		
Mohr, Gariepy & Kaynama	2016					x	x
Munaoka & Banno	2017	x					
Nagy, Becker & Dechant	2018		x	x	x		
Nelson	2015	x					
Nogimori	2018	x					
Noh	2014	x		x			
Noh	2015	x		x			
Okuda	2014	x					
Ooka, Narita & Noto	2015	x					
Otake	2016	x					
Pitzer	2017				x	x	
Sato & Iwasaki	2016				x		
Sato & Iwasaki	2017				x		
Schofield	2005	x					
Schofield	2008	x					
Schofield	2016	x					
Schofield	2017	x					
Schwindt & Bordes	2014	x	x	x			
Shigeta, Aoyagi & Haga	2016	x					
Shigeta, Aoyagi & Haga	2017	x					
Simon	2014	x	x				
Slaton et al	2016		x				
Strail	2017					x	
Strumolo, Greenberg & Chen	2011	x					
Szczerba, Neiiendam, Lu & Huang	2017	x					
Szybalski, Prada Gomez, Urmson, Thrun & Nemec	2018				x		
Taira & Watanabe	2016						x
Takahashi & Kuriyama	2018			x	x	x	
Takamatsu & Tokura	2007					x	x
Takamatsu, Hirose, Mizuno, Hashimoto & Otake	2013					x	x
Takamatsu et al	2005			x	x	x	x

Takamatsu et al	2007			x	x	x	x
Talamonti, Chung & Tijerina	2018				x	x	
Tan	2016	x					
Tan	2016	x					
Tauchi, Tanaka & Kamiya	2017						
Tauchi, Tanaka & Kamiya	2018	x	x	x		x	x
Tippelhofer et al	2014	x					
Tippelhofer et al	2016	x					
Torii	2017	x					
Uno	2015	x					
Uno	2015	x	x	x			
Uno	2016	x					
Urano	2018					x	x
Wagner & Bauer	2014	x		x			
Watanabe, Emura, Tsuji, Mori & Nakai	2018				x	x	x
Yamada et al	2018	x	x	x	x	x	
Yamamoto	2018	x					
Yamaoka	2016						x
Yamaoka	2018					x	x
Yoshihashi et al	2013	x		x			
Yoshihashi et al	2011	x		x			
Zelman & Tsimhoni	2016	x	x	x	x		
Total		64	21	33	30	28	22
Total in %		32%	11%	17%	15%	14%	11%