		0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.					
L73	11	L71 not L72	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/03/11 11:23 PM
L74	1	("20200223585").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/03/11 11:37 PM
L75	50	(US-0014949-$ | US-0031975-$ | US-0039831-$ | US-0069832-$ | US-0123478-$ | US-0139777-$ | US-0152944-$ | US-0224528-$ | US-0229889-$ | US-0346819-$ | US-10603783-$ | US-10703534-$ | US-10750833-$ | US-10793172-$ | US-10829269-$ | US-20100224528-$ | US-20110139777-$ | US-20120152944-$ | US-20140069832-$ | US-20140123478-$ | US-20150014949-$ | US-20180229889-$ | US-20200346819-$ | US-20210031975-$ | US-20210039831-$ | US-4122925-$ | US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 02:23 AM

		4673070-$ | US-5325966-$ | US-5375709-$ | US-5429235-$ | US-5433416-$ | US-6082539-$ | US-6889838-$ | US-7219969-$ | US-7690856-$ | US-8602217-$ | US-8640913-$ | US-D285986-$ | US-D738622-$ | US-D753982-$).DID.					
L76	26	("1084360" | "20080121547" | "20100224528" | "20110139665" | "20110155613" | "20140062281" | "20150069962" | "20150274362" | "20170318927" | "3410376" | "3757911" | "3891230" | "4643494" | "5544751" | "5971119" | "6098819" | "6213266" | "6367631" | "6585090" | "8561769" | "8590704" | "8602217").PN. OR ("10750833").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 02:24 AM
L77	31	("1084360").URPN.	(USPAT)	OR	ON	ON	2021/07/18 02:25 AM
L78	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 02:33 AM

		US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-					

		20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$) did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$) did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-					

		0221177-$ or US- 0220758-$ or US- 0220531-$ or US- 0219193-$ or US- 0217464-$ or US- 0207571-$ or US- 0206656-$ or US- 0205877-$ or US- 0195793-$ or US- 0194543-$ or US- 0186624-$ or US- 0186513-$ or US- 0184034-$ or US- 0181008-$ or US- 0180250-$ or US- 0178946-$ or US- 0174939-$ or US- 0174392-$ or US- 0171228-$ or US- 0169739-$ or US- 0168880-$ or US- 0168376-$) did. or (US- 0166516-$ or US- 0166352-$ or US- 0165828-$ or US- 0165036-$ or US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US- 0147781-$ or US- 0147642-$ or US- 0146589-$ or US- 0145913-$ or US- 0145866-$ or US- 0145790-$ or US- 0145700-$ or US- 0144500-$ or US- 0139745-$ or US- 0139665-$ or US- 0139566-$ or US- 0138382-$ or US- 0134607-$ or US- 0130034-$ or US- 0127146-$ or US- 0127129-$ or US- 0125072-$) did. or (US- 0121783-$ or US- 0121547-$ or US- 0121056-$ or US- 0119060-$ or US- 0115715-$ or US- 0115312-$ or US- 0106244-$ or US- 0104921-$ or US- 0104308-$ or US-				

		0103494-$ or US- 0099405-$ or US- 0094393-$ or US- 0090616-$ or US- 0076759-$ or US- 0074158-$ or US- 0073516-$ or US- 0071990-$ or US- 0068903-$ or US- 0068757-$ or US- 0062244-$ or US- 0055534-$ or US- 0052276-$ or US- 0044059-$ or US- 0039781-$ or US- 0038367-$ or US- 0034515-$ or US- 0031732-$).did. or (US- 0031731-$ or US- 0031222-$ or US- 0027475-$ or US- 0026901-$ or US- 0024468-$ or US- 0023349-$ or US- 0006770-$ or US- 0002004-$ or US- 0000440-$ or US- D892565-$ or US- D891875-$ or US- D891195-$ or US- D891193-$ or US- D888503-$ or US- D888422-$ or US- D887788-$ or US- D883752-$ or US- D880951-$ or US- D880252-$ or US- D873085-$ or US- D871013-$ or US- D857387-$ or US- D845081-$ or US- D845080-$ or US- D839681-$ or US- D837515-$ or US- D836995-$).did. or (US- D833744-$ or US- D831352-$ or US- D828671-$ or US- D826510-$ or US- D816334-$ or US- D815831-$ or US- D814187-$ or US- 9872562-$ or US- D806483-$ or US- D803631-$ or US- 9725209-$ or US- 9701443-$ or US- D790221-$ or US-					

		9643629-$ or US- D784089-$ or US- 9616562-$ or US- 9566990-$ or US- D777426-$ or US- 9511491-$ or US- 9506489-$ or US- D770179-$ or US- D765974-$ or US- D753396-$ or US- D753395-$ or US- D753394-$ or US- 9132543-$ or US- D738106-$).did. or (US- D738105-$ or US- 8985922-$ or US- 8979100-$ or US- 8875888-$ or US- 8813960-$ or US- 8714355-$ or US- 8689396-$ or US- D701696-$ or US- 8677661-$ or US- 8567796-$ or US- 8505729-$ or US- 8459495-$ or US- 8454033-$ or US- 8448829-$ or US- D674605-$ or US- D668869-$ or US- D664354-$ or US- D663952-$ or US- D661858-$ or US- 8191910-$ or US- 8177463-$ or US- 8132819-$ or US- D653832-$ or US- D649350-$ or US- 8028845-$ or US- D630851-$ or US- 7841144-$).did. or (US- 7780026-$ or US- 7779764-$ or US- 7658887-$ or US- 7503569-$ or US- 7367571-$ or US- 7263742-$ or US- D536580-$ or US- 7147243-$ or US- D527225-$ or US- D525789-$ or US- 7066475-$ or US- 7044484-$ or US- 6983946-$ or US- 6948691-$ or US- 6945546-$ or US- 6641013-$ or US- 6637707-$ or US-					

		6619772-$ or US- 6601930-$ or US- 6547347-$ or US- 6431580-$ or US- D456972-$ or US- 6371320-$ or US- 6367631-$ or US- 6347847-$ or US- 6305498-$ or US- D437669-$).did. or (US- 6176559-$ or US- 6109627-$ or US- 6085925-$ or US- 6050660-$ or US- D420860-$ or US- 5988473-$ or US- D415393-$ or US- 5957421-$ or US- 5951037-$ or US- 5890613-$ or US- 5797617-$ or US- 5775046-$ or US- D395533-$ or US- 5653366-$ or US- 5628443-$ or US- 5608603-$ or US- 5595228-$ or US- 5538213-$ or US- D361511-$ or US- 5429260-$ or US- D352208-$ or US- 5301829-$ or US- 5282554-$ or US- D340167-$ or US- 5240264-$ or US- D326815-$ or US- 5105947-$).did. or (US- D325324-$ or US- 5098235-$ or US- D319016-$ or US- 5035445-$ or US- 4971201-$ or US- 4805859-$ or US- 4168076-$ or US- 3974898-$ or US- D232798-$ or US- 3743372-$ or US- 3514170-$ or US- 3506321-$ or US- 3225865-$ or US- 3117692-$ or US- 9850029-$).did. or (US- D192092-$ or US- 2970358-$ or US- 2430200-$ or US- 2042387-$ or US- 0376917-$ or US- 0349013-$ or US-					

		0326406-$ or US- 0320243-$ or US- 0318927-$ or US- 0308369-$ or US- 0299027-$ or US- 0296443-$ or US- 0292213-$ or US- 0290288-$ or US- 0277221-$ or US- 0274362-$ or US- 0271616-$ or US- 0271280-$ or US- 0266804-$ or US- 0257958-$ or US- 0254946-$ or US- 0243925-$ or US- 0242144-$ or US- 0239808-$ or US- 0236482-$ or US- 0225371-$).did. or (US- 0223971-$ or US- 0221177-$ or US- 0220758-$ or US- 0220531-$ or US- 0219193-$ or US- 0217464-$ or US- 0207571-$ or US- 0206656-$ or US- 0205877-$ or US- 0195793-$ or US- 0194543-$ or US- 0186624-$ or US- 0186513-$ or US- 0184034-$ or US- 0181008-$ or US- 0180250-$ or US- 0178946-$ or US- 0174939-$ or US- 0174392-$ or US- 0171228-$ or US- 0169739-$ or US- 0168880-$ or US- 0168376-$ or US- 0166516-$ or US- 0166352-$ or US- 0165828-$ or US- 0165036-$).did. or (US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US- 0147781-$ or US- 0147642-$ or US- 0146589-$ or US- 0145913-$ or US- 0145866-$ or US-				

		0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.					
L79	29	L78 and stand	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 02:34 AM
L80	103	L78 and wheel$4	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 02:35 AM

L81	1	"20060076261".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 03:02 AM
L82	1	L75 and ko	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 03:03 AM
L83	8	(US-20200029543-$).did. or (US-10933501-$ or US-D898320-$ or US-8925752-$ or US-D285986-$ or US-4243279-$ or US-3999818-$).did. or (US-1084360-$).did.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 03:03 AM
L84	1	L83 and ko	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 03:04 AM
L85	186	("10434638" | "20020000440" | "20020171228" | "20030115715" | "20030146589" | "20030184034" | "20030205877" | "20040103494" | "20040195793" | "20040206656" | "20050062244" | "20050104308" | "20050139745" | "20060006770" | "20060027475" | "20060038367" | "20060119060" | "20060186624" | "20060254946" | "20070068757" | "20070090616" | "20070145700" | "20070194543" | "20080104921" | "20080115312" | "20080121547" | "20080134607" | "20080169739" | "20080271280" | "20080277221" | "20080308369" | "20090026901" | "20090071990" | "20090145790" | "20090145866" | "20090145913" | "20090178946" | "20100052276" | "20100139566" | "20100147642" | "20100219193" | "20110073516" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 03:04 AM

		"20110139665" | "20110155613" | "20110181008" | "20110220531" | "20120160886" | "20120180250" | "20120207571" | "20120326406" | "20130024468" | "20130031731" | "20130031732" | "20130121783" | "20130127129" | "20130154218" | "20130223971" | "20140076759" | "20140161518" | "20140166516" | "20150274362" | "20150376917" | "20160023349" | "20160130034" | "20160144500" | "20160168880" | "20170121056" | "20170138382" | "20170165828" | "20170166352" | "20170174392" | "20170217464" | "20170239808" | "20170257958" | "20170266804" | "20170318927" | "20170349013" | "20180044059" | "20180161975" | "20180220758" | "20180290288" | "20190002004" | "20190031222" | "20190039781" | "20190106244" | "20190225371" | "20200055534" | "2042387" | "2430200" | "2970358" | "3117692" | "3506321" | "3974898" | "4168076" | "5035445" | "5105947").PN. OR ("5240264" | "5301829" | "5429260" | "5595228" | "5608603" | "5628443" | "5797617" | "5951037" | "5988473" | "6050660" | "6085925" | "6109627" | "6176559" | "6347847" | "6367631" | "6371320"					

		| "6431580" | "6547347" | "6601930" | "6619772" | "6637707" | "6641013" | "6945546" | "6948691" | "6983946" | "7044484" | "7066475" | "7147243" | "7263742" | "7367571" | "7503569" | "7658887" | "7779764" | "7780026" | "7841144" | "8028845" | "8132819" | "8177463" | "8191910" | "8454033" | "8459495" | "8505729" | "8567796" | "8677661" | "8689396" | "8714355" | "8813960" | "8875888" | "8979100" | "8985922" | "9132543" | "9506489" | "9511491" | "9566990" | "9616562" | "9643629" | "9701443" | "9872562" | "D395533" | "D437669" | "D456972" | "D525789" | "D630851" | "D653832" | "D661858" | "D663952" | "D664354" | "D674605" | "D701696" | "D738106" | "D753394" | "D753395" | "D765974" | "D770179" | "D790221" | "D814187" | "D816334" | "D826510" | "D828671" | "D833744" | "D837515" | "D871013").PN. OR ("D898320").URPN.					
L86	16	("2017/0138382").URPN.	(USPAT)	OR	ON	ON	2021/07/18 03:06 AM
L87	109	("2708088" | "3878589" | "3915189" | "3931893" | "4450989" | "4461445" | "4858869" | "5026016" | "5035389" | "5078279" | "5344032" | "5356038" | "5433416" | "5435511" | "5452874" | "5765699" | "5915572" | "D329192" | "D386298" | "D386304").PN. OR ("6637707").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 03:11 AM
L88	20	("1446036" | "3881677" | "5035389" | "5226625" | "5282554" | "5294012" | "5356105" | "6637707"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 03:13 AM

		| "6824114").PN. OR ("7837165").URPN.					
L89	93	("2732159" | "2887233" | "3294355" | "3622116" | "3840261" | "3878589" | "3915189" | "3928894" | "4176580" | "4858869" | "5026016" | "5086958" | "D329192").PN. OR ("5433416").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 03:23 AM
L90	56	("1537678" | "20060165484" | "2028229" | "2116584" | "2735146" | "2863185" | "3336689" | "3552056" | "3798867" | "4275972" | "4407106" | "4570408" | "5090835" | "5433416" | "5704183" | "6017093" | "6036398" | "6186691" | "6227754" | "6341467" | "6357960" | "6578341" | "6874291" | "6991397" | "7331781" | "7398622" | "D384271").PN. OR ("8147162").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 03:25 AM
L91	23	("2735146").URPN.	(USPAT)	OR	ON	ON	2021/07/18 03:26 AM
L92	45	("0594035" | "1356745" | "1787734" | "20030038222" | "2173159" | "2210235" | "2588009" | "3840261" | "3915189" | "4028858" | "4176580" | "4228982" | "4566243" | "4620736" | "5035389" | "5165213" | "5240213" | "5348778" | "5356038" | "5433416" | "5435511" | "5566917" | "5707033" | "5758988" | "5802798" | "6082687" | "6227514" | "6481679").PN. OR ("7007903").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 03:27 AM
L93	99	("0626684" | "1077792" | "1720309" | "2239978" | "2610014" | "2975578" | "3021105" | "3452954" | "3491820" | "3525493" | "3927315" | "4018341" | "4246710" | "4319731" | "4539766" | "4557064" | "4713899" | "4718626" | "4995182" | "5086958" | "5109992" | "5109993"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 03:28 AM

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 692
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

		| "5275367" | "5346166" | "5415370" | "5485930" | "5678795" | "5683003" | "5702008" | "5722625" | "5871118" | "D294113" | "D316729").PN. OR ("6082687").URPN.					
L94	2	("594035").URPN.	(USPAT)	OR	ON	ON	2021/07/18 03:31 AM
L95	631	E04F15/10.cpc.	(USPAT)	OR	ON	ON	2021/07/18 03:32 AM
L96	378	E04F13/18.cpc.	(USPAT)	OR	ON	ON	2021/07/18 03:32 AM
L97	67	E04B1/00.cpc.	(USPAT)	OR	ON	ON	2021/07/18 03:33 AM
L98	378	("2430200").URPN.	(USPAT)	OR	ON	ON	2021/07/18 07:00 PM
L99	46	(US-20200029543-$ or US-20110139665-$ or US-20200055534-$ or US-20150376917-$ or US-20130031732-$ or US-20100147642-$ or US-20100052276-$ or US-20060076261-$ or US-20180220758-$ or US-20180044059-$ or US-20170138382-$ or US-20140161518-$ or US-20130223971-$ or US-20090145866-$ or US-20070090616-$ or US-20050139745-$).did. or (US-10933501-$ or US-D898320-$ or US-8925752-$ or US-D285986-$ or US-4243279-$ or US-3999818-$ or US-10750833-$ or US-11008136-$ or US-9132543-$ or US-6637707-$ or US-10890207-$ or US-7837165-$ or US-5356105-$ or US-5282554-$ or US-5226625-$ or US-5035389-$ or US-7172164-$ or US-5435511-$ or US-5433416-$ or US-4461445-$ or US-10472117-$ or US-8147162-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 07:59 PM

		D905545-$ or US-7007903-$ or US-6481679-$ or US-6082687-$).did. or (US-3927315-$ or US-4620736-$).did. or (US-1084360-$ or US-0594035-$).did.					
L100	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 07:59 PM

		20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-					

		20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-					

		0165036-$ or US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US- 0147781-$ or US- 0147642-$ or US- 0146589-$ or US- 0145913-$ or US- 0145866-$ or US- 0145790-$ or US- 0145700-$ or US- 0144500-$ or US- 0139745-$ or US- 0139665-$ or US- 0139566-$ or US- 0138382-$ or US- 0134607-$ or US- 0130034-$ or US- 0127146-$ or US- 0127129-$ or US- 0125072-$).did. or (US- 0121783-$ or US- 0121547-$ or US- 0121056-$ or US- 0119060-$ or US- 0115715-$ or US- 0115312-$ or US- 0106244-$ or US- 0104921-$ or US- 0104308-$ or US- 0103494-$ or US- 0099405-$ or US- 0094393-$ or US- 0090616-$ or US- 0076759-$ or US- 0074158-$ or US- 0073516-$ or US- 0071990-$ or US- 0068903-$ or US- 0068757-$ or US- 0062244-$ or US- 0055534-$ or US- 0052276-$ or US- 0044059-$ or US- 0039781-$ or US- 0038367-$ or US- 0034515-$ or US- 0031732-$).did. or (US- 0031731-$ or US- 0031222-$ or US- 0027475-$ or US- 0026901-$ or US- 0024468-$ or US- 0023349-$ or US- 0006770-$ or US-				

		0002004-$ or US- 0000440-$ or US- D892565-$ or US- D891875-$ or US- D891195-$ or US- D891193-$ or US- D888503-$ or US- D888422-$ or US- D887788-$ or US- D883752-$ or US- D880951-$ or US- D880252-$ or US- D873085-$ or US- D871013-$ or US- D857387-$ or US- D845081-$ or US- D845080-$ or US- D839681-$ or US- D837515-$ or US- D836995-$).did. or (US- D833744-$ or US- D831352-$ or US- D828671-$ or US- D826510-$ or US- D816334-$ or US- D815831-$ or US- D814187-$ or US- 9872562-$ or US- D806483-$ or US- D803631-$ or US- 9725209-$ or US- 9701443-$ or US- D790221-$ or US- 9643629-$ or US- D784089-$ or US- 9616562-$ or US- 9566990-$ or US- D777426-$ or US- 9511491-$ or US- 9506489-$ or US- D770179-$ or US- D765974-$ or US- D753396-$ or US- D753395-$ or US- D753394-$ or US- 9132543-$ or US- D738106-$).did. or (US- D738105-$ or US- 8985922-$ or US- 8979100-$ or US- 8875888-$ or US- 8813960-$ or US- 8714355-$ or US- 8689396-$ or US- D701696-$ or US- 8677661-$ or US- 8567796-$ or US- 8505729-$ or US-				

		8459495-$ or US- 8454033-$ or US- 8448829-$ or US- D674605-$ or US- D668869-$ or US- D664354-$ or US- D663952-$ or US- D661858-$ or US- 8191910-$ or US- 8177463-$ or US- 8132819-$ or US- D653832-$ or US- D649350-$ or US- 8028845-$ or US- D630851-$ or US- 7841144-$).did. or (US- 7780026-$ or US- 7779764-$ or US- 7658887-$ or US- 7503569-$ or US- 7367571-$ or US- 7263742-$ or US- D536580-$ or US- 7147243-$ or US- D527225-$ or US- D525789-$ or US- 7066475-$ or US- 7044484-$ or US- 6983946-$ or US- 6948691-$ or US- 6945546-$ or US- 6641013-$ or US- 6637707-$ or US- 6619772-$ or US- 6601930-$ or US- 6547347-$ or US- 6431580-$ or US- D456972-$ or US- 6371320-$ or US- 6367631-$ or US- 6347847-$ or US- 6305498-$ or US- D437669-$).did. or (US- 6176559-$ or US- 6109627-$ or US- 6085925-$ or US- 6050660-$ or US- D420860-$ or US- 5988473-$ or US- D415393-$ or US- 5957421-$ or US- 5951037-$ or US- 5890613-$ or US- 5797617-$ or US- 5775046-$ or US- D395533-$ or US- 5653366-$ or US- 5628443-$ or US-					

		5608603-$ or US- 5595228-$ or US- 5538213-$ or US- D361511-$ or US- 5429260-$ or US- D352208-$ or US- 5301829-$ or US- 5282554-$ or US- D340167-$ or US- 5240264-$ or US- D326815-$ or US- 5105947-$).did. or (US- D325324-$ or US- 5098235-$ or US- D319016-$ or US- 5035445-$ or US- 4971201-$ or US- 4805859-$ or US- 4168076-$ or US- 3974898-$ or US- D232798-$ or US- 3743372-$ or US- 3514170-$ or US- 3506321-$ or US- 3225865-$ or US- 3117692-$ or US- 9850029-$).did. or (US- D192092-$ or US- 2970358-$ or US- 2430200-$ or US- 2042387-$ or US- 0376917-$ or US- 0349013-$ or US- 0326406-$ or US- 0320243-$ or US- 0318927-$ or US- 0308369-$ or US- 0299027-$ or US- 0296443-$ or US- 0292213-$ or US- 0290288-$ or US- 0277221-$ or US- 0274362-$ or US- 0271616-$ or US- 0271280-$ or US- 0266804-$ or US- 0257958-$ or US- 0254946-$ or US- 0243925-$ or US- 0242144-$ or US- 0239808-$ or US- 0236482-$ or US- 0225371-$).did. or (US- 0223971-$ or US- 0221177-$ or US- 0220758-$ or US- 0220531-$ or US- 0219193-$ or US-				

		0217464-$ or US- 0207571-$ or US- 0206656-$ or US- 0205877-$ or US- 0195793-$ or US- 0194543-$ or US- 0186624-$ or US- 0186513-$ or US- 0184034-$ or US- 0181008-$ or US- 0180250-$ or US- 0178946-$ or US- 0174939-$ or US- 0174392-$ or US- 0171228-$ or US- 0169739-$ or US- 0168880-$ or US- 0168376-$ or US- 0166516-$ or US- 0166352-$ or US- 0165828-$ or US- 0165036-$) did. or (US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US- 0147781-$ or US- 0147642-$ or US- 0146589-$ or US- 0145913-$ or US- 0145866-$ or US- 0145790-$ or US- 0145700-$ or US- 0144500-$ or US- 0139745-$ or US- 0139665-$ or US- 0139566-$ or US- 0138382-$ or US- 0134607-$ or US- 0130034-$ or US- 0127146-$ or US- 0127129-$ or US- 0125072-$ or US- 0121783-$ or US- 0121547-$ or US- 0121056-$ or US- 0119060-$) did. or (US- 0115715-$ or US- 0115312-$ or US- 0106244-$ or US- 0104921-$ or US- 0104308-$ or US- 0103494-$ or US- 0099405-$ or US- 0094393-$ or US- 0090616-$ or US-				

		0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.					
L101	29	L99 not L100	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 07:59 PM
L102	9	("1084360"|"10933501"|"20200029543"|"3999818"|"4243279"|"8925752"|"D285986"|"D898320").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 08:00 PM
L103	21	L101 not L102	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 08:00 PM
L104	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 08:02 PM

		US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or					

		US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$) did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$) did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$) did. or (US-					

		0242144-$ or US- 0239808-$ or US- 0236482-$ or US- 0225371-$ or US- 0223971-$ or US- 0221177-$ or US- 0220758-$ or US- 0220531-$ or US- 0219193-$ or US- 0217464-$ or US- 0207571-$ or US- 0206656-$ or US- 0205877-$ or US- 0195793-$ or US- 0194543-$ or US- 0186624-$ or US- 0186513-$ or US- 0184034-$ or US- 0181008-$ or US- 0180250-$ or US- 0178946-$ or US- 0174939-$ or US- 0174392-$ or US- 0171228-$ or US- 0169739-$ or US- 0168880-$ or US- 0168376-$).did. or (US- 0166516-$ or US- 0166352-$ or US- 0165828-$ or US- 0165036-$ or US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US- 0147781-$ or US- 0147642-$ or US- 0146589-$ or US- 0145913-$ or US- 0145866-$ or US- 0145790-$ or US- 0145700-$ or US- 0144500-$ or US- 0139745-$ or US- 0139665-$ or US- 0139566-$ or US- 0138382-$ or US- 0134607-$ or US- 0130034-$ or US- 0127146-$ or US- 0127129-$ or US- 0125072-$).did. or (US- 0121783-$ or US- 0121547-$ or US- 0121056-$ or US- 0119060-$ or US-				

		0115715-$ or US- 0115312-$ or US- 0106244-$ or US- 0104921-$ or US- 0104308-$ or US- 0103494-$ or US- 0099405-$ or US- 0094393-$ or US- 0090616-$ or US- 0076759-$ or US- 0074158-$ or US- 0073516-$ or US- 0071990-$ or US- 0068903-$ or US- 0068757-$ or US- 0062244-$ or US- 0055534-$ or US- 0052276-$ or US- 0044059-$ or US- 0039781-$ or US- 0038367-$ or US- 0034515-$ or US- 0031732-$).did. or (US- 0031731-$ or US- 0031222-$ or US- 0027475-$ or US- 0026901-$ or US- 0024468-$ or US- 0023349-$ or US- 0006770-$ or US- 0002004-$ or US- 0000440-$ or US- D892565-$ or US- D891875-$ or US- D891195-$ or US- D891193-$ or US- D888503-$ or US- D888422-$ or US- D887788-$ or US- D883752-$ or US- D880951-$ or US- D880252-$ or US- D873085-$ or US- D871013-$ or US- D857387-$ or US- D845081-$ or US- D845080-$ or US- D839681-$ or US- D837515-$ or US- D836995-$).did. or (US- D833744-$ or US- D831352-$ or US- D828671-$ or US- D826510-$ or US- D816334-$ or US- D815831-$ or US- D814187-$ or US- 9872562-$ or US-					

		D806483-$ or US- D803631-$ or US- 9725209-$ or US- 9701443-$ or US- D790221-$ or US- 9643629-$ or US- D784089-$ or US- 9616562-$ or US- 9566990-$ or US- D777426-$ or US- 9511491-$ or US- 9506489-$ or US- D770179-$ or US- D765974-$ or US- D753396-$ or US- D753395-$ or US- D753394-$ or US- 9132543-$ or US- D738106-$).did. or (US- D738105-$ or US- 8985922-$ or US- 8979100-$ or US- 8875888-$ or US- 8813960-$ or US- 8714355-$ or US- 8689396-$ or US- D701696-$ or US- 8677661-$ or US- 8567796-$ or US- 8505729-$ or US- 8459495-$ or US- 8454033-$ or US- 8448829-$ or US- D674605-$ or US- D668869-$ or US- D664354-$ or US- D663952-$ or US- D661858-$ or US- 8191910-$ or US- 8177463-$ or US- 8132819-$ or US- D653832-$ or US- D649350-$ or US- 8028845-$ or US- D630851-$ or US- 7841144-$).did. or (US- 7780026-$ or US- 7779764-$ or US- 7658887-$ or US- 7503569-$ or US- 7367571-$ or US- 7263742-$ or US- D536580-$ or US- 7147243-$ or US- D527225-$ or US- D525789-$ or US- 7066475-$ or US- 7044484-$ or US-				

		6983946-$ or US- 6948691-$ or US- 6945546-$ or US- 6641013-$ or US- 6637707-$ or US- 6619772-$ or US- 6601930-$ or US- 6547347-$ or US- 6431580-$ or US- D456972-$ or US- 6371320-$ or US- 6367631-$ or US- 6347847-$ or US- 6305498-$ or US- D437669-$).did. or (US- 6176559-$ or US- 6109627-$ or US- 6085925-$ or US- 6050660-$ or US- D420860-$ or US- 5988473-$ or US- D415393-$ or US- 5957421-$ or US- 5951037-$ or US- 5890613-$ or US- 5797617-$ or US- 5775046-$ or US- D395533-$ or US- 5653366-$ or US- 5628443-$ or US- 5608603-$ or US- 5595228-$ or US- 5538213-$ or US- D361511-$ or US- 5429260-$ or US- D352208-$ or US- 5301829-$ or US- 5282554-$ or US- D340167-$ or US- 5240264-$ or US- D326815-$ or US- 5105947-$).did. or (US- D325324-$ or US- 5098235-$ or US- D319016-$ or US- 5035445-$ or US- 4971201-$ or US- 4805859-$ or US- 4168076-$ or US- 3974898-$ or US- D232798-$ or US- 3743372-$ or US- 3514170-$ or US- 3506321-$ or US- 3225865-$ or US- 3117692-$ or US- 9850029-$).did. or (US- D192092-$ or US-					

		2970358-$ or US- 2430200-$ or US- 2042387-$ or US- 0376917-$ or US- 0349013-$ or US- 0326406-$ or US- 0320243-$ or US- 0318927-$ or US- 0308369-$ or US- 0299027-$ or US- 0296443-$ or US- 0292213-$ or US- 0290288-$ or US- 0277221-$ or US- 0274362-$ or US- 0271616-$ or US- 0271280-$ or US- 0266804-$ or US- 0257958-$ or US- 0254946-$ or US- 0243925-$ or US- 0242144-$ or US- 0239808-$ or US- 0236482-$ or US- 0225371-$).did. or (US- 0223971-$ or US- 0221177-$ or US- 0220758-$ or US- 0220531-$ or US- 0219193-$ or US- 0217464-$ or US- 0207571-$ or US- 0206656-$ or US- 0205877-$ or US- 0195793-$ or US- 0194543-$ or US- 0186624-$ or US- 0186513-$ or US- 0184034-$ or US- 0181008-$ or US- 0180250-$ or US- 0178946-$ or US- 0174939-$ or US- 0174392-$ or US- 0171228-$ or US- 0169739-$ or US- 0168880-$ or US- 0168376-$ or US- 0166516-$ or US- 0166352-$ or US- 0165828-$ or US- 0165036-$).did. or (US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US-				

		0147781-$ or US- 0147642-$ or US- 0146589-$ or US- 0145913-$ or US- 0145866-$ or US- 0145790-$ or US- 0145700-$ or US- 0144500-$ or US- 0139745-$ or US- 0139665-$ or US- 0139566-$ or US- 0138382-$ or US- 0134607-$ or US- 0130034-$ or US- 0127146-$ or US- 0127129-$ or US- 0125072-$ or US- 0121783-$ or US- 0121547-$ or US- 0121056-$ or US- 0119060-$).did. or (US- 0115715-$ or US- 0115312-$ or US- 0106244-$ or US- 0104921-$ or US- 0104308-$ or US- 0103494-$ or US- 0099405-$ or US- 0094393-$ or US- 0090616-$ or US- 0076759-$ or US- 0074158-$ or US- 0073516-$ or US- 0071990-$ or US- 0068903-$ or US- 0068757-$ or US- 0062244-$ or US- 0055534-$ or US- 0052276-$ or US- 0044059-$ or US- 0039781-$ or US- 0038367-$ or US- 0034515-$ or US- 0031732-$ or US- 0031731-$ or US- 0031222-$ or US- 0027475-$ or US- 0026901-$).did. or (US- 0024468-$ or US- 0023349-$ or US- 0006770-$ or US- 0002004-$ or US- 0000440-$ or US- D232798-$ or US- 3514170-$ or US- 3506321-$ or US- 3225865-$ or US- 3117692-$).did.					

L105	5	L104 and gates	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/07/18 08:02 PM
L106	71	(US-0001482-$ | US-0015928-$ | US-0025706-$ | US-0060953-$ | US-0094392-$ | US-0127007-$ | US-0151427-$ | US-0155373-$ | US-0176261-$ | US-0187725-$ | US-0213934-$ | US-0267368-$ | US-0310842-$ | US-1081378-$ | US-10222172-$ | US-10962218-$ | US-10981696-$ | US-11059631-$ | US-2124541-$ | US-2939613-$ | US-20030094392-$ | US-20050015928-$ | US-20080060953-$ | US-20100176261-$ | US-20150151427-$ | US-20150310842-$ | US-20180127007-$ | US-20180213934-$ | US-20190001482-$ | US-20210025706-$ | US-20210155373-$ | US-20210187725-$ | US-20210267368-$ | US-3423786-$ | US-3424334-$ | US-3935613-$ | US-4817237-$ | US-4929973-$ | US-5356038-$ | US-5356105-$ | US-5622296-$ | US-5664292-$ | US-5850996-$ | US-6098858-$ | US-6371424-$ | US-7077372-$ | US-7090085-$ | US-7152752-$ | US-8851282-$ | US-9551367-$ | US-9888752-$ | US-D917977-$ | US-D923935-$).DID.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/12/30 11:08 PM
L107	191	("10434638" | "10583962" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/12/30 11:09 PM

		"20020000440" | "20020171228" | "20030115715" | "20030146589" | "20030184034" | "20030205877" | "20040103494" | "20040195793" | "20040206656" | "20050062244" | "20050104308" | "20050139745" | "20060006770" | "20060027475" | "20060038367" | "20060119060" | "20060186624" | "20060254946" | "20070068757" | "20070090616" | "20070145700" | "20070194543" | "20080104921" | "20080115312" | "20080121547" | "20080134607" | "20080169739" | "20080271280" | "20080277221" | "20080308369" | "20090026901" | "20090071990" | "20090145790" | "20090145866" | "20090145913" | "20090178946" | "20100052276" | "20100139566" | "20100147642" | "20100219193" | "20110073516" | "20110139665" | "20110155613" | "20110181008" | "20110220531" | "20120160886" | "20120180250" | "20120207571" | "20120326406" | "20130024468" | "20130031731" | "20130031732" | "20130121783" | "20130127129" | "20130154218" | "20130223971" | "20140076759" | "20140161518" |				

		"20140166516" | "20150274362" | "20150376917" | "20160023349" | "20160130034" | "20160144500" | "20160168880" | "20170121056" | "20170138382" | "20170165828" | "20170166352" | "20170174392" | "20170217464" | "20170239808" | "20170257958" | "20170266804" | "20170318927" | "20170349013" | "20180044059" | "20180161975" | "20180220758" | "20180290288" | "20190002004" | "20190031222" | "20190039781" | "20190106244" | "20190225371" | "20200055534" | "2042387" | "2430200" | "2970358" | "3005282" | "3117692" | "3506321" | "3974898" | "4168076").PN. OR ("5035445" | "5105947" | "5240264" | "5301829" | "5429260" | "5595228" | "5608603" | "5628443" | "5797617" | "5951037" | "5988473" | "6050660" | "6085925" | "6109627" | "6176559" | "6347847" | "6367631" | "6371320" | "6431580" | "6547347" | "6601930" | "6619772" | "6637707" | "6641013" | "6945546" | "6948691" | "6983946" | "7044484" | "7066475" | "7147243" | "7263742" | "7367571" | "7503569" | "7658887" | "7779764" | "7780026" | "7841144" | "8028845" | "8132819" | "8177463" | "8191910" | "8454033" | "8459495" | "8505729" | "8567796" | "8677661" | "8689396" | "8714355" | "8813960" | "8875888"					

		| "8979100" | "8985922" | "9132543" | "9506489" | "9511491" | "9566990" | "9616562" | "9643629" | "9701443" | "9725209" | "9872562" | "D395533" | "D437669" | "D456972" | "D525789" | "D627967" | "D630851" | "D653832" | "D661858" | "D663952" | "D664354" | "D674605" | "D701696" | "D738106" | "D753394" | "D753395" | "D765974" | "D770179" | "D790221" | "D814187" | "D816334" | "D826510" | "D828671" | "D833744" | "D837515" | "D871013" | "D895967").PN. OR ("10981696").URPN.					
L108	12	(("0495537") or ("1081378") or ("2124541") or ("2939613") or ("3423786") or ("3424334")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/12/30 11:14 PM
L109	4	(("4929973") or ("5325966") or ("5154291") or ("5375709")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/12/30 11:18 PM
L110	26	("3182856" | "4293070" | "4404615" | "4427114" | "4553190" | "4557382" | "4561554" | "4886163" | "5107989" | "5180615" | "5244087").PN. OR ("5375709").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/12/30 11:18 PM
L111	41	("3182856" | "3565146" | "4951812" | "4998616" | "5036980" | "5040681" | "5060851" | "5117979").PN. OR ("5325966").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/12/30 11:22 PM
L112	26	("1038331" | "3047157" | "4216857" | "4272795" | "4413867" | "4722034" | "4976350" | "5038235").PN. OR ("5154291").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/12/30 11:23 PM
L113	8	("3047157").URPN.	(USPAT)	OR	ON	ON	2021/12/30 11:24 PM
L114	78	("3356325" |	(US-PGPUB; USPAT;	OR	ON	ON	2021/12/30

		"4525052").PN. OR ("4929973").URPN.	USOCR)				11:25 PM
L115	12	("10047906" | "10194544" | "10299528" | "10317173" | "3429543" | "4929973" | "5333023" | "9052574" | "9097490" | "9121544" | "9249923").PN. OR ("10711941").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/12/30 11:25 PM
L116	1	"5325966".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 05:55 PM
L117	41	("3182856" | "3565146" | "4951812" | "4998616" | "5036980" | "5040681" | "5060851" | "5117979").PN. OR ("5325966").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 05:55 PM
L118	24	("1472536" | "2709318" | "2803088" | "2843971" | "3521764" | "3584757" | "4109789" | "4144968" | "4391348" | "5325966" | "5607057" | "5649638").PN. OR ("6015046").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 05:55 PM
L119	33	("4619366" | "4936458" | "4960207" | "5325966" | "5332114" | "5544751").PN. OR ("5697500").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 05:56 PM
L120	493	B25H3/023.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:33 PM
L121	261	B65D21/02.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:33 PM
L122	17	"5154291"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:42 PM
L123	2	(("5154291") or ("5375709")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/01/04 06:42 PM
L124	26	("3182856" | "4293070" | "4404615" | "4427114" | "4553190" | "4557382" | "4561554" | "4886163" | "5107989" | "5180615" | "5244087").PN. OR ("5375709").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:43 PM
L125	26	("1038331" | "3047157" | "4216857" | "4272795" | "4413867" | "4722034" | "4976350" | "5038235").PN. OR ("5154291").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:43 PM
L126	35	("1733772" | "2499765"	(US-PGPUB; USPAT;	OR	ON	ON	2022/01/04

		| "3899229").PN. OR ("4216857").URPN.	USOCR)				06:44 PM
L127	15	("4216857" | "4583640" | "4624383" | "5050755" | "5105962" | "5159156").PN. OR ("6371321").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:45 PM
L128	10	("3760937" | "4216857" | "4741438" | "D220317" | "D238401").PN. OR ("D328972").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:46 PM
L129	31	("1565993" | "2237176" | "2506844" | "2695723" | "2988412" | "3567298" | "3642337").PN. OR ("3760937").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:47 PM
L130	18	("3635350" | "3642337" | "3760937" | "3812960" | "3889817" | "3909088").PN. OR ("4098402").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:48 PM
L131	7	("3567298").URPN.	(USPAT)	OR	ON	ON	2022/01/04 06:49 PM
L132	59	("3272325" | "3287075" | "3514170" | "3567298" | "3595433" | "3603478" | "3635350" | "3642337" | "3684124" | "3710900").PN. OR ("3904259").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:51 PM
L133	16	("3552817" | "3904259" | "3974898" | "4269461" | "4285559" | "4410093" | "4436355" | "4570793" | "4577914" | "4728158" | "4900090" | "5666713").PN. OR ("6109707").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:58 PM
L134	23	("2233480" | "3751127" | "3841725").PN. OR ("5666713").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 06:59 PM
L135	1723	312/111,199.ccls.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:01 PM
L136	10	("2003/0038566").URPN.	(USPAT)	OR	ON	ON	2022/01/04 07:04 PM
L137	40	("2011962" | "3514170" | "3552817" | "3743372" | "3851936" | "3999818" | "4198777" | "4238032" | "4353470" | "4589546" | "4744612" | "4782619" | "4874210" | "4907703" | "5046789" | "5137340" | "5176435" | "5191983"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:07 PM

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 716
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

		| "5344024" | "5399004" | "5454634").PN. OR ("6050657").URPN.					
L138	18	("3131829" | "3429632" | "3552579" | "3707023" | "4062302" | "4239306" | "5246284").PN. OR ("5454634").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:08 PM
L139	633	312/108.ccls.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:10 PM
L140	109	("3468081" | "3668832" | "3836217" | "4003172" | "4095769" | "4243279" | "4413867" | "4423913" | "4577914" | "4768298" | "4867513" | "5046789" | "5267863" | "D334704" | "D337653").PN. OR ("5775046").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:15 PM
L141	118	("0287923" | "1084597" | "1563306" | "20010025460" | "20020054787" | "20020122691" | "20030036314" | "20030044228" | "20040033103" | "20040102132" | "20040121699" | "20040168382" | "20050005556" | "20060104715" | "20060165482" | "20060278772" | "20070006542" | "20070209314" | "20080224470" | "20080280521" | "20080280523" | "20100005752" | "20100059094" | "20110101607" | "20110180350" | "20120299352" | "20140010587" | "20140260083" | "2132757" | "2472363" | "3086627" | "3342444" | "3608906" | "3778175" | "3836218" | "4021973" | "4094417" | "4160337" | "4258522" | "4388786" | "4455795" | "4543757" | "4564732" | "4577449" | "4621938" | "4652170" | "4671039" | "4688362" | "4845889" | "4896999" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:15 PM

		"4907388" | "4934858" | "4939037" | "4951440" | "4974987" | "5000713" | "5042615" | "5048995" | "5238231" | "5267863" | "5413836" | "5498099" | "5499886" | "5580181" | "5680737" | "5775046" | "5791806" | "5799943" | "5802798" | "5868223" | "5915803" | "5984587" | "6059631" | "6179511" | "6185887" | "6237298" | "6250025" | "6447360" | "6886296" | "6996946" | "7185461" | "7198270" | "7530550" | "7621080" | "7694485" | "7779589" | "7833077" | "7942612" | "7980034" | "8082702" | "8187050" | "8282307" | "8523134" | "8671640" | "9200443" | "D261401" | "D545380" | "D545381" | "D545917" | "D545918" | "D545919").PN. OR ("10501929").URPN.					
L142	63	("0669591" | "1385606" | "1397976" | "1671279" | "2204675" | "2291712" | "2387659" | "2902853" | "3305982" | "3449875" | "3527005" | "3849960" | "4550543").PN. OR ("4688362").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:20 PM
L143	56	("3286070" | "3589758" | "3599212" | "3751618" | "3851936" | "3900712" | "4019298" | "4095913" | "4224484" | "4267417").PN. OR ("4564732").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:21 PM
L144	75	("0165500" | "0598689" | "2003746" | "2165255" | "2323123" | "2325155" | "2459873" | "2502275" | "2562518" | "2568131" | "2620801" | "2721417" | "3043047" | "3095665" | "3233611" | "3366359" | "3408032" | "3425421" | "3926398" | "4009599" | "4066168" | "4116413" | "4179091" | "4341166" | "4389133" | "4444418" | "4462317" | "4475365"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:23 PM

		| "4508306" | "4564732" | "4568052" | "4582442" | "4583877" | "4643384" | "4691541" | "4722627" | "4776552" | "4787595").PN. OR ("4925146").URPN.					
L145	25	("0438675" | "3608158" | "3777734" | "4156496" | "4564732").PN. OR ("4635611").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:25 PM
L146	143	("0616131" | "0748036" | "0918699" | "1133513" | "1303090" | "1918116" | "1986465" | "2580174" | "2793407").PN. OR ("4019298").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:27 PM
L147	5	("20070154257" | "20120128114" | "4019298" | "5244300" | "6343107").PN. OR ("9887017").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:27 PM
L148	50	("0609703" | "0984823" | "1348707" | "3074203" | "3663055" | "4012155" | "4019298" | "4438800" | "4504168" | "4548590" | "4550230").PN. OR ("4900090").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:30 PM
L149	22	("1303090").URPN.	(USPAT)	OR	ON	ON	2022/01/04 07:32 PM
L150	8	(("0593330") or ("1182610") or ("1265113") or ("2457002")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/01/04 07:33 PM
L151	49	("2132757").URPN.	(USPAT)	OR	ON	ON	2022/01/04 07:35 PM
L152	33	("20060059738" | "20110014848" | "20110097964" | "20140227940" | "20150182868" | "2472363" | "2565823" | "2922253" | "3022594" | "3558138" | "3774908" | "3888030" | "4180932" | "4903424" | "4970810" | "4983890" | "5056249" | "5090936" | "5322717" | "5462471" | "5732493" | "5775046" | "6045430" | "6682392" | "6845579" | "7895779").PN. OR ("9661944").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:39 PM
L153	19	("20040149754" |	(US-PGPUB; USPAT;	OR	ON	ON	2022/01/04

		"20080116772" | "20090039742" | "20100127603" | "2023260" | "3316041" | "3552817" | "4043477" | "4998587" | "5271515" | "5350057" | "5470139" | "5775046" | "5924778" | "6735831").PN. OR ("8894160").URPN.	USOCR)				07:41 PM
L154	9	("2004/0149754").URPN.	(USPAT)	OR	ON	ON	2022/01/04 07:44 PM
L155	2	("1390374").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/01/04 07:49 PM
L156	49	("1252816" | "1983307" | "3131829" | "3374917" | "3567302" | "3986756" | "3999818" | "4099626" | "4175807" | "4227758").PN. OR ("4423913").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:52 PM
L157	56	("2593998" | "2653072" | "2730423" | "3131829" | "3219400" | "3514170" | "3552817" | "3563624" | "3743372" | "3814489").PN. OR ("3999818").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 07:53 PM
L158	24	(("1386143") or ("2128341") or ("2128342") or ("2206084") or ("2375843") or ("2392630") or ("2410700") or ("2709634") or ("2726916") or ("2741419") or ("2757852") or ("2867019")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/01/04 08:04 PM
L159	38	("2087863" | "2979370" | "3348668" | "3552817" | "3638788" | "3737067" | "3743372" | "3747745" | "3871516" | "3917067").PN. OR ("4026615").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/04 11:22 PM
L160	14	(("1303985") or ("1698578") or ("1726121") or ("2268236") or ("2733112") or ("3000680") or ("3003839")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/01/04 11:27 PM
L161	11	("2733112").URPN.	(USPAT)	OR	ON	ON	2022/01/04

							11:28 PM
L162	6	(("1308647") or ("2203716") or ("2614016")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/01/04 11:33 PM
L163	9	("2386343").URPN.	(USPAT)	OR	ON	ON	2022/01/04 11:46 PM
L164	2	("2169769").URPN.	(USPAT)	OR	ON	ON	2022/01/04 11:52 PM
L165	5	("2614016").URPN.	(USPAT)	OR	ON	ON	2022/01/05 12:11 AM
L166	8	(("1331862") or ("1686515") or ("2304020") or ("2386343")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/01/05 12:12 AM
L167	8	(("1186634") or ("1862609") or ("2083114") or ("2121190")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/01/05 12:13 AM
L168	12	(("1223641") or ("1242579") or ("1268870") or ("2237176") or ("2281959") or ("2321755")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/01/05 12:15 AM
L169	27	("1084360" | "20080121547" | "20100224528" | "20110139665" | "20110155613" | "20140062281" | "20150069962" | "20150274362" | "20170318927" | "3410376" | "3757911" | "3891230" | "4643494" | "5544751" | "5971119" | "6098819" | "6213266" | "6367631" | "6585090" | "8561769" | "8590704" | "8602217").PN. OR ("10750833").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/05 12:22 AM
L170	16	(("0512496") or ("1656868") or ("2563094") or ("2752215") or ("2988412") or ("3219400") or ("3401993") or ("3421801")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/01/05 12:25 AM
L171	2	("2807387").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/01/05 11:45 AM
L172	24	("2807387").URPN.	(USPAT)	OR	ON	ON	2022/01/05 11:45 AM
L173	111	"40".clas. and (shrink	(US-PGPUB; USPAT;	OR	ON	ON	2022/01/05

		and bottle)	USOCR)				02:19 PM
L174	82	(US-20060076261-$ or US-20030038566-$ or US-20050110371-$ or US-20080280523-$ or US-20070006542-$ or US-20060165482-$ or US-20040149754-$).did. or (US-11008136-$ or US-10750833-$ or US-7837165-$ or US-7172164-$ or US-6082687-$ or US-5433416-$ or US-9551367-$ or US-3935613-$ or US-1081378-$ or US-3424334-$ or US-7350648-$ or US-3182856-$ or US-3047157-$ or US-10711941-$ or US-3429543-$ or US-10364935-$ or US-9958667-$ or US-8448829-$ or US-5697500-$ or US-5375709-$ or US-5154291-$ or US-4216857-$ or US-6371321-$ or US-D328972-$ or US-D238401-$ or US-3760937-$).did. or (US-5918762-$ or US-4098402-$ or US-3567298-$ or US-3904259-$ or US-6109707-$ or US-5666713-$ or US-6050657-$ or US-7410289-$ or US-5454634-$ or US-7100999-$ or US-7967401-$ or US-5775046-$ or US-10501929-$ or US-2902853-$ or US-4564732-$ or US-5720537-$ or US-5044594-$ or US-10485312-$ or US-4635611-$ or US-4019298-$ or US-9887017-$ or US-8123284-$ or US-4900090-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/07 08:50 PM

		1303090-$ or US-3851936-$ or US-2132757-$ or US-2472363-$).did. or (US-9661944-$ or US-8894160-$ or US-10514519-$ or US-3552817-$ or US-5993283-$ or US-4423913-$ or US-4660725-$ or US-3999818-$ or US-5325975-$ or US-4003172-$ or US-3743372-$ or US-4026615-$ or US-3421801-$ or US-2386343-$ or US-3860147-$ or US-2304020-$ or US-2169769-$ or US-1602383-$ or US-0864761-$).did. or (US-2793407-$ or US-3506321-$ or US-2614016-$).did.					
L175	16	("10750833"|"20060076261"|"D898320"|"10933501"|"D285986"|"5433416"|"11008136"|"7837165"|"20200029543"|"4243279"|"1084360"|"3999818"|"8925752"|"6082687"|"7172164").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/07 08:57 PM
L176	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/07 08:58 PM

		US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-					

		$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$) did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-					

		0223971-$ or US- 0221177-$ or US- 0220758-$ or US- 0220531-$ or US- 0219193-$ or US- 0217464-$ or US- 0207571-$ or US- 0206656-$ or US- 0205877-$ or US- 0195793-$ or US- 0194543-$ or US- 0186624-$ or US- 0186513-$ or US- 0184034-$ or US- 0181008-$ or US- 0180250-$ or US- 0178946-$ or US- 0174939-$ or US- 0174392-$ or US- 0171228-$ or US- 0169739-$ or US- 0168880-$ or US- 0168376-$).did. or (US- 0166516-$ or US- 0166352-$ or US- 0165828-$ or US- 0165036-$ or US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US- 0147781-$ or US- 0147642-$ or US- 0146589-$ or US- 0145913-$ or US- 0145866-$ or US- 0145790-$ or US- 0145700-$ or US- 0144500-$ or US- 0139745-$ or US- 0139665-$ or US- 0139566-$ or US- 0138382-$ or US- 0134607-$ or US- 0130034-$ or US- 0127146-$ or US- 0127129-$ or US- 0125072-$).did. or (US- 0121783-$ or US- 0121547-$ or US- 0121056-$ or US- 0119060-$ or US- 0115715-$ or US- 0115312-$ or US- 0106244-$ or US- 0104921-$ or US-				

		0104308-$ or US- 0103494-$ or US- 0099405-$ or US- 0094393-$ or US- 0090616-$ or US- 0076759-$ or US- 0074158-$ or US- 0073516-$ or US- 0071990-$ or US- 0068903-$ or US- 0068757-$ or US- 0062244-$ or US- 0055534-$ or US- 0052276-$ or US- 0044059-$ or US- 0039781-$ or US- 0038367-$ or US- 0034515-$ or US- 0031732-$).did. or (US- 0031731-$ or US- 0031222-$ or US- 0027475-$ or US- 0026901-$ or US- 0024468-$ or US- 0023349-$ or US- 0006770-$ or US- 0002004-$ or US- 0000440-$ or US- D892565-$ or US- D891875-$ or US- D891195-$ or US- D891193-$ or US- D888503-$ or US- D888422-$ or US- D887788-$ or US- D883752-$ or US- D880951-$ or US- D880252-$ or US- D873085-$ or US- D871013-$ or US- D857387-$ or US- D845081-$ or US- D845080-$ or US- D839681-$ or US- D837515-$ or US- D836995-$).did. or (US- D833744-$ or US- D831352-$ or US- D828671-$ or US- D826510-$ or US- D816334-$ or US- D815831-$ or US- D814187-$ or US- 9872562-$ or US- D806483-$ or US- D803631-$ or US- 9725209-$ or US- 9701443-$ or US-					

		D790221-$ or US- 9643629-$ or US- D784089-$ or US- 9616562-$ or US- 9566990-$ or US- D777426-$ or US- 9511491-$ or US- 9506489-$ or US- D770179-$ or US- D765974-$ or US- D753396-$ or US- D753395-$ or US- D753394-$ or US- 9132543-$ or US- D738106-$).did. or (US- D738105-$ or US- 8985922-$ or US- 8979100-$ or US- 8875888-$ or US- 8813960-$ or US- 8714355-$ or US- 8689396-$ or US- D701696-$ or US- 8677661-$ or US- 8567796-$ or US- 8505729-$ or US- 8459495-$ or US- 8454033-$ or US- 8448829-$ or US- D674605-$ or US- D668869-$ or US- D664354-$ or US- D663952-$ or US- D661858-$ or US- 8191910-$ or US- 8177463-$ or US- 8132819-$ or US- D653832-$ or US- D649350-$ or US- 8028845-$ or US- D630851-$ or US- 7841144-$).did. or (US- 7780026-$ or US- 7779764-$ or US- 7658887-$ or US- 7503569-$ or US- 7367571-$ or US- 7263742-$ or US- D536580-$ or US- 7147243-$ or US- D527225-$ or US- D525789-$ or US- 7066475-$ or US- 7044484-$ or US- 6983946-$ or US- 6948691-$ or US- 6945546-$ or US- 6641013-$ or US-					

		6637707-$ or US- 6619772-$ or US- 6601930-$ or US- 6547347-$ or US- 6431580-$ or US- D456972-$ or US- 6371320-$ or US- 6367631-$ or US- 6347847-$ or US- 6305498-$ or US- D437669-$).did. or (US- 6176559-$ or US- 6109627-$ or US- 6085925-$ or US- 6050660-$ or US- D420860-$ or US- 5988473-$ or US- D415393-$ or US- 5957421-$ or US- 5951037-$ or US- 5890613-$ or US- 5797617-$ or US- 5775046-$ or US- D395533-$ or US- 5653366-$ or US- 5628443-$ or US- 5608603-$ or US- 5595228-$ or US- 5538213-$ or US- D361511-$ or US- 5429260-$ or US- D352208-$ or US- 5301829-$ or US- 5282554-$ or US- D340167-$ or US- 5240264-$ or US- D326815-$ or US- 5105947-$).did. or (US- D325324-$ or US- 5098235-$ or US- D319016-$ or US- 5035445-$ or US- 4971201-$ or US- 4805859-$ or US- 4168076-$ or US- 3974898-$ or US- D232798-$ or US- 3743372-$ or US- 3514170-$ or US- 3506321-$ or US- 3225865-$ or US- 3117692-$ or US- 9850029-$).did. or (US- D192092-$ or US- 2970358-$ or US- 2430200-$ or US- 2042387-$ or US- 0376917-$ or US-				

		0349013-$ or US- 0326406-$ or US- 0320243-$ or US- 0318927-$ or US- 0308369-$ or US- 0299027-$ or US- 0296443-$ or US- 0292213-$ or US- 0290288-$ or US- 0277221-$ or US- 0274362-$ or US- 0271616-$ or US- 0271280-$ or US- 0266804-$ or US- 0257958-$ or US- 0254946-$ or US- 0243925-$ or US- 0242144-$ or US- 0239808-$ or US- 0236482-$ or US- 0225371-$).did. or (US- 0223971-$ or US- 0221177-$ or US- 0220758-$ or US- 0220531-$ or US- 0219193-$ or US- 0217464-$ or US- 0207571-$ or US- 0206656-$ or US- 0205877-$ or US- 0195793-$ or US- 0194543-$ or US- 0186624-$ or US- 0186513-$ or US- 0184034-$ or US- 0181008-$ or US- 0180250-$ or US- 0178946-$ or US- 0174939-$ or US- 0174392-$ or US- 0171228-$ or US- 0169739-$ or US- 0168880-$ or US- 0168376-$ or US- 0166516-$ or US- 0166352-$ or US- 0165828-$ or US- 0165036-$).did. or (US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US- 0147781-$ or US- 0147642-$ or US- 0146589-$ or US- 0145913-$ or US-				

		0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.					
L177	71	(US-0001482-$ | US-0015928-$ | US-0025706-$ | US-0060953-$ | US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/07 08:59 PM

		0094392-$ | US-0127007-$ | US-0151427-$ | US-0155373-$ | US-0176261-$ | US-0187725-$ | US-0213934-$ | US-0267368-$ | US-0310842-$ | US-1081378-$ | US-10222172-$ | US-10962218-$ | US-10981696-$ | US-11059631-$ | US-2124541-$ | US-2939613-$ | US-20030094392-$ | US-20050015928-$ | US-20080060953-$ | US-20100176261-$ | US-20150151427-$ | US-20150310842-$ | US-20180127007-$ | US-20180213934-$ | US-20190001482-$ | US-20210025706-$ | US-20210155373-$ | US-20210187725-$ | US-20210267368-$ | US-3423786-$ | US-3424334-$ | US-3935613-$ | US-4817237-$ | US-4929973-$ | US-5356038-$ | US-5356105-$ | US-5622296-$ | US-5664292-$ | US-5850996-$ | US-6098858-$ | US-6371424-$ | US-7077372-$ | US-7090085-$ | US-7152752-$ | US-8851282-$ | US-9551367-$ | US-9888752-$ | US-D917977-$ | US-D923935-$).DID.					
L178	66	L174 not (L175 L176 L177)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/07 08:59 PM
L179	1	"5454634".PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/01/07 09:02 PM
L180	12	(US-0073995-$ | US-0078929-$ | US-0104909-$ | US-11066089-$ | US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 08:29 PM

		11283117-$ | US-20120073995-$ | US-20200078929-$ | US-20210104909-$ | US-D649783-$).DID.					
L181	18	("10027188" | "10063096" | "20050156564" | "20120218027" | "20130048647" | "20140328659" | "20150077042" | "20150077043" | "20170259956" | "20180009588" | "20180231238" | "20180366697" | "3733836" | "8579113" | "9153978" | "9379561" | "9748794" | "9829953").PN. OR ("11283117").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 08:30 PM
L182	46	(US-0030425-$ | US-0062042-$ | US-0075468-$ | US-0094600-$ | US-0158216-$ | US-0197059-$ | US-0213115-$ | US-0221561-$ | US-0273114-$ | US-0288970-$ | US-0316909-$ | US-11155382-$ | US-11230410-$ | US-20020030425-$ | US-20030075468-$ | US-20070273114-$ | US-20090288970-$ | US-20140062042-$ | US-20140197059-$ | US-20160213115-$ | US-20170158216-$ | US-20210094600-$ | US-20210221561-$ | US-20210316909-$ | US-5035389-$ | US-D437484-$ | US-D876833-$ | US-D897103-$ | US-D918584-$ | US-D919296-$ | US-D920671-$ | US-D932186-$ | US-D936030-$ | US-D941020-$ | US-RE47022-$).DID.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 08:32 PM

L183	1	"10406387".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 08:48 PM
L184	1	"20130206139".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 08:48 PM
L185	0	A652B9/04.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 08:49 PM
L186	638	A62B9/04.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 08:49 PM
L187	878	A62B7/10.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 08:49 PM
L188	536	A62B18/006.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 08:49 PM
L189	369	A62B25/00.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 08:49 PM
L190	32	("3805929" | "3957183" | "4299313" | "4310110" | "4345789" | "4358006" | "4455718" | "4463978" | "4561526" | "4690314" | "4752263" | "5046894" | "5494377" | "5567084").PN. OR ("6409429").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 08:52 PM
L191	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:07 PM

		20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-					

		20170166352-$ or US- 20170165828-$ or US- 20170138382-$ or US- 20170121056-$ or US- 20160221177-$ or US- 20160168880-$ or US- 20160144500-$ or US- 20160130034-$ or US- 20160023349-$ or US- 20150376917-$ or US- 20150274362-$ or US- 20150034515-$ or US- 20140166516-$ or US- 20140161518-$ or US- 20140076759-$ or US- 20130223971-$ or US- 20130154218-$ or US- 20130127129-$ or US- 20120074022-$).did. or (US-10758065-$ or US- 10583962-$ or US- 10434638-$ or US- 10106180-$ or US- D192092-$ or US- 2970358-$ or US- 2430200-$ or US- 2042387-$ or US- 0376917-$ or US- 0349013-$ or US- 0326406-$ or US- 0320243-$ or US- 0318927-$ or US- 0308369-$ or US- 0299027-$ or US- 0296443-$ or US- 0292213-$ or US- 0290288-$ or US- 0277221-$ or US- 0274362-$ or US- 0271616-$ or US- 0271280-$ or US- 0266804-$ or US- 0257958-$ or US- 0254946-$ or US- 0243925-$).did. or (US- 0242144-$ or US- 0239808-$ or US- 0236482-$ or US- 0225371-$ or US- 0223971-$ or US- 0221177-$ or US- 0220758-$ or US- 0220531-$ or US- 0219193-$ or US- 0217464-$ or US- 0207571-$ or US- 0206656-$ or US- 0205877-$ or US-				

		0195793-$ or US- 0194543-$ or US- 0186624-$ or US- 0186513-$ or US- 0184034-$ or US- 0181008-$ or US- 0180250-$ or US- 0178946-$ or US- 0174939-$ or US- 0174392-$ or US- 0171228-$ or US- 0169739-$ or US- 0168880-$ or US- 0168376-$).did. or (US- 0166516-$ or US- 0166352-$ or US- 0165828-$ or US- 0165036-$ or US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US- 0147781-$ or US- 0147642-$ or US- 0146589-$ or US- 0145913-$ or US- 0145866-$ or US- 0145790-$ or US- 0145700-$ or US- 0144500-$ or US- 0139745-$ or US- 0139665-$ or US- 0139566-$ or US- 0138382-$ or US- 0134607-$ or US- 0130034-$ or US- 0127146-$ or US- 0127129-$ or US- 0125072-$).did. or (US- 0121783-$ or US- 0121547-$ or US- 0121056-$ or US- 0119060-$ or US- 0115715-$ or US- 0115312-$ or US- 0106244-$ or US- 0104921-$ or US- 0104308-$ or US- 0103494-$ or US- 0099405-$ or US- 0094393-$ or US- 0090616-$ or US- 0076759-$ or US- 0074158-$ or US- 0073516-$ or US- 0071990-$ or US-				

		0068903-$ or US- 0068757-$ or US- 0062244-$ or US- 0055534-$ or US- 0052276-$ or US- 0044059-$ or US- 0039781-$ or US- 0038367-$ or US- 0034515-$ or US- 0031732-$).did. or (US- 0031731-$ or US- 0031222-$ or US- 0027475-$ or US- 0026901-$ or US- 0024468-$ or US- 0023349-$ or US- 0006770-$ or US- 0002004-$ or US- 0000440-$ or US- D892565-$ or US- D891875-$ or US- D891195-$ or US- D891193-$ or US- D888503-$ or US- D888422-$ or US- D887788-$ or US- D883752-$ or US- D880951-$ or US- D880252-$ or US- D873085-$ or US- D871013-$ or US- D857387-$ or US- D845081-$ or US- D845080-$ or US- D839681-$ or US- D837515-$ or US- D836995-$).did. or (US- D833744-$ or US- D831352-$ or US- D828671-$ or US- D826510-$ or US- D816334-$ or US- D815831-$ or US- D814187-$ or US- 9872562-$ or US- D806483-$ or US- D803631-$ or US- 9725209-$ or US- 9701443-$ or US- D790221-$ or US- 9643629-$ or US- D784089-$ or US- 9616562-$ or US- 9566990-$ or US- D777426-$ or US- 9511491-$ or US- 9506489-$ or US- D770179-$ or US-				

		D765974-$ or US- D753396-$ or US- D753395-$ or US- D753394-$ or US- 9132543-$ or US- D738106-$).did. or (US- D738105-$ or US- 8985922-$ or US- 8979100-$ or US- 8875888-$ or US- 8813960-$ or US- 8714355-$ or US- 8689396-$ or US- D701696-$ or US- 8677661-$ or US- 8567796-$ or US- 8505729-$ or US- 8459495-$ or US- 8454033-$ or US- 8448829-$ or US- D674605-$ or US- D668869-$ or US- D664354-$ or US- D663952-$ or US- D661858-$ or US- 8191910-$ or US- 8177463-$ or US- 8132819-$ or US- D653832-$ or US- D649350-$ or US- 8028845-$ or US- D630851-$ or US- 7841144-$).did. or (US- 7780026-$ or US- 7779764-$ or US- 7658887-$ or US- 7503569-$ or US- 7367571-$ or US- 7263742-$ or US- D536580-$ or US- 7147243-$ or US- D527225-$ or US- D525789-$ or US- 7066475-$ or US- 7044484-$ or US- 6983946-$ or US- 6948691-$ or US- 6945546-$ or US- 6641013-$ or US- 6637707-$ or US- 6619772-$ or US- 6601930-$ or US- 6547347-$ or US- 6431580-$ or US- D456972-$ or US- 6371320-$ or US- 6367631-$ or US- 6347847-$ or US-					

		6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-					

		0277221-$ or US- 0274362-$ or US- 0271616-$ or US- 0271280-$ or US- 0266804-$ or US- 0257958-$ or US- 0254946-$ or US- 0243925-$ or US- 0242144-$ or US- 0239808-$ or US- 0236482-$ or US- 0225371-$).did. or (US- 0223971-$ or US- 0221177-$ or US- 0220758-$ or US- 0220531-$ or US- 0219193-$ or US- 0217464-$ or US- 0207571-$ or US- 0206656-$ or US- 0205877-$ or US- 0195793-$ or US- 0194543-$ or US- 0186624-$ or US- 0186513-$ or US- 0184034-$ or US- 0181008-$ or US- 0180250-$ or US- 0178946-$ or US- 0174939-$ or US- 0174392-$ or US- 0171228-$ or US- 0169739-$ or US- 0168880-$ or US- 0168376-$ or US- 0166516-$ or US- 0166352-$ or US- 0165828-$ or US- 0165036-$).did. or (US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US- 0147781-$ or US- 0147642-$ or US- 0146589-$ or US- 0145913-$ or US- 0145866-$ or US- 0145790-$ or US- 0145700-$ or US- 0144500-$ or US- 0139745-$ or US- 0139665-$ or US- 0139566-$ or US- 0138382-$ or US- 0134607-$ or US-				

		0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.					
L192	8	(US-20200029543-$).did. or (US-10933501-$ or US-D898320-$ or US-8925752-$ or US-D285986-$ or US-4243279-$ or US-3999818-$).did. or (US-1084360-$).did.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:07 PM
L193	7	(US-20060076261-$).did. or (US-11008136-$ or US-	(US-PGPUB; USPAT)	OR	ON	ON	2022/06/16 09:07 PM

		10750833-$ or US-7837165-$ or US-7172164-$ or US-6082687-$ or US-5433416-$).did.					
L194	15	(US-20080280523-$ or US-20070006542-$ or US-20060165482-$ or US-20040149754-$).did. or (US-8894160-$ or US-7350648-$ or US-6371321-$ or US-5454634-$ or US-5154291-$ or US-4660725-$ or US-4564732-$ or US-3851936-$ or US-3567298-$ or US-3552817-$ or US-2386343-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2022/06/16 09:07 PM
L195	82	(US-20060076261-$ or US-20030038566-$ or US-20050110371-$ or US-20080280523-$ or US-20070006542-$ or US-20060165482-$ or US-20040149754-$).did. or (US-11008136-$ or US-10750833-$ or US-7837165-$ or US-7172164-$ or US-6082687-$ or US-5433416-$ or US-9551367-$ or US-3935613-$ or US-1081378-$ or US-3424334-$ or US-7350648-$ or US-3182856-$ or US-3047157-$ or US-10711941-$ or US-3429543-$ or US-10364935-$ or US-9958667-$ or US-8448829-$ or US-5697500-$ or US-5375709-$ or US-5154291-$ or US-4216857-$ or US-6371321-$ or US-D328972-$ or US-D238401-$ or US-3760937-$).did. or (US-5918762-$ or US-4098402-$ or US-3567298-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:07 PM

		3904259-$ or US-6109707-$ or US-5666713-$ or US-6050657-$ or US-7410289-$ or US-5454634-$ or US-7100999-$ or US-7967401-$ or US-5775046-$ or US-10501929-$ or US-2902853-$ or US-4564732-$ or US-5720537-$ or US-5044594-$ or US-10485312-$ or US-4635611-$ or US-4019298-$ or US-9887017-$ or US-8123284-$ or US-4900090-$ or US-1303090-$ or US-3851936-$ or US-2132757-$ or US-2472363-$).did. or (US-9661944-$ or US-8894160-$ or US-10514519-$ or US-3552817-$ or US-5993283-$ or US-4423913-$ or US-4660725-$ or US-3999818-$ or US-5325975-$ or US-4003172-$ or US-3743372-$ or US-4026615-$ or US-3421801-$ or US-2386343-$ or US-3860147-$ or US-2304020-$ or US-2169769-$ or US-1602383-$ or US-0864761-$).did. or (US-2793407-$ or US-3506321-$ or US-2614016-$).did.					
L196	111	(L191 L192 L193 L194 L195) and wheel$3	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:08 PM
L197	170	("0344661" | "0687619" | "1424819" | "20020014488" | "20020067027" | "20020074905" | "20020113386" | "20020185831" | "20030001348" | "20030146589" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:10 PM

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 744
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

		"20040265104" | "20050062244" | "20050104308" | "20050258610" | "20050275178" | "20060006619" | "20060012139" | "20060038367" | "20070080512" | "20070194543" | "20070273114" | "20080084036" | "20080121547" | "20080128305" | "20080143069" | "20090020528" | "20090026901" | "20090309323" | "20100052276" | "20100290877" | "20100327562" | "20110049824" | "20110181008" | "20120160886" | "20120326406" | "20140001719" | "20140375181" | "2554091" | "2588830" | "2901262" | "2964328" | "3168329" | "3393951" | "3734526" | "3804432" | "3990653" | "4363496" | "4448434" | "4619363" | "4984704" | "5104135" | "5123666" | "5207723" | "5362078" | "5378005" | "5464104" | "5474312" | "5595395" | "5626352" | "5634649" | "5720535" | "5845915" | "5906381" | "5913527" | "5931483" | "5934466" | "5938396" | "6000713" | "6050660" | "6079719" | "6109627" | "6113129" | "6123344" | "6131926" | "6135466" | "6176559" | "6254112" | "6347847" | "6357063" | "6371320" | "6394471" | "6398235" | "6474930" | "6561528" | "6601930" | "6616152" | "6659476" | "6666465" | "6874634" | "6889838" | "6945546" | "7063339" | "7066475" | "7168715" | "7188847" | "7210689" | "7328905" | "7367571" | "7500681"				

		"7503569" | "7686260" | "7703776" | "7819407" | "7823893" | "7845653" | "7883096" | "7905502" | "7938412" | "8132819" | "8226092" | "8567796" | "8657307" | "D437484").PN. OR ("D542496" | "D640869" | "D653832" | "D654241").PN. OR ("9132543").URPN.					
L198	11	("2009/0309323").URPN.	(USPAT)	OR	ON	ON	2022/06/16 09:11 PM
L199	18	("2003/0001348").URPN.	(USPAT)	OR	ON	ON	2022/06/16 09:23 PM
L200	22	("20030001348" | "20040001748" | "20040201186" | "20070029745" | "20100181737" | "20120299259" | "4585130" | "4726602" | "4921270" | "5333885" | "5465987" | "5577745" | "5611561" | "6131926" | "7823893" | "7886872" | "8366126" | "8459515" | "8967633" | "9033348" | "9302690" | "D581123").PN. OR ("10086858").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:23 PM
L201	93	("0845917" | "1424819" | "20040124598" | "20050110232" | "20080203688" | "2598489" | "2981374" | "3052323" | "3052484" | "3179270" | "3690488" | "3734526" | "3804432" | "3876039" | "3951286" | "4355818" | "4363496" | "4421209" | "4448434" | "4526399" | "4537421" | "5160154" | "5203815" | "5251922" | "5365860" | "5464104" | "5564346" | "5575605" | "5595395" | "5626352" | "5644993" | "5678842" | "5697624" | "5845915" | "5863055" | "5885047" | "6131926" | "6131927" | "6135466" | "6309168" | "6457727" | "6530740" | "6659476" | "6709222" | "6880851" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:25 PM

		"6921095" | "6929269" | "6971654" | "7213816" | "7320472" | "D340339" | "D373669" | "D396923" | "D399625" | "D440372" | "D502304").PN. OR ("7823893").URPN.					
L202	44	("2320387" | "3052484" | "3179270" | "3734526" | "4281843" | "4363496" | "4790549" | "5464104" | "5465987" | "5474312" | "5595395" | "5671933").PN. OR ("6131926").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:27 PM
L203	55	("1006985" | "2964328" | "3052323" | "3436093" | "3460850" | "4726602" | "5123666" | "5125675" | "5193842").PN. OR ("5465987").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:29 PM
L204	737	"280".clas. and (scuba diver diving)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:29 PM
L205	1	("2006/0119058").URPN.	(USPAT)	OR	ON	ON	2022/06/16 09:31 PM
L206	6	("5433230"|"5074571"|"5492346"|"5207723"|"6520514"|"6341789").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:32 PM
L207	81	("2439660" | "2893749" | "2905480" | "3351402" | "4026616" | "4124261" | "4544050" | "4784382" | "4848243" | "4865346" | "4890705" | "5207723" | "5306029" | "5379537" | "6199816" | "D383603").PN. OR ("6520514").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:33 PM
L208	78	("0886530" | "1664431" | "2124071" | "2265618" | "2300405" | "2525208" | "2572486" | "2893749" | "2905480" | "3010775" | "3118685" | "3779623" | "3831799" | "3831805" | "3984023" | "4225202" | "4350257" | "4387940" | "4531645" | "4662515" | "D311622").PN. OR ("5207723").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:35 PM
L209	29	("20030034636" | "20180168369" | "2564939" | "2868557" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:47 PM

		"3092395" | "3241852" | "3279811" | "3285620" | "3292942" | "3427040" | "3462171" | "3659867" | "4460189" | "5125675" | "5465987" | "6547263" | "6955365" | "9566991").PN. OR ("10322735").URPN.					
L210	18	("20110120827" | "20120049474" | "3092395" | "3135527" | "3285620" | "4448434" | "5125675" | "5628523" | "5803264" | "6547263" | "6955365" | "7728671").PN. OR ("9566991").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:48 PM
L211	10	("2012/0049474").URPN.	(USPAT)	OR	ON	ON	2022/06/16 09:48 PM
L212	1	"7757913".pn.	(USPAT)	OR	ON	ON	2022/06/16 09:54 PM
L213	1	"7757913".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:54 PM
L214	225	A45F2005/026.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:54 PM
L215	32	("1333075").URPN.	(USPAT)	OR	ON	ON	2022/06/16 09:58 PM
L216	19	("20060058070" | "4858798" | "6405910").PN. OR ("7757913").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 09:59 PM
L217	12800	F16M11/041,40,10.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:00 PM
L218	5487	F16M11/041,40.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:00 PM
L219	4970	F16M11/041.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:00 PM
L220	9897	F16M13/02.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:09 PM
L221	471	F16B2/20.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:10 PM
L222	53	("2592767"|"5778804"|"6564432"|"1951196"|"5738020"|"0396508"|"4220308"|"20080237434"|"4893777"|"5143331"|"5209445"|"6131361"|"0993818"|"4140414"|"4603829"|"4725029"|"6193198"|"6517276"|"2277738"|"20080107479"|"3986318"|"6010306"|"4266386"|"5592767"|"4106	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:14 PM

		630"|"4783034"|"5013000"|"5420762"|"7299667"|"20040232298"|"3455528"|"3529860"|"0936527"|"20110204758"|"20110023364"|"3282519"|"7934607"|"5150415"|"4307865"|"4473316"|"3055462"|"3159368").PN.					
L223	5	("1951196").URPN.	(USPAT)	OR	ON	ON	2022/06/16 10:17 PM
L224	445	F16B21/09.cpc.	(USPAT)	OR	ON	ON	2022/06/16 10:21 PM
L225	885	F16B21/09.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:22 PM
L226	2	("2013/0071176").URPN.	(USPAT)	OR	ON	ON	2022/06/16 10:26 PM
L227	0	("2013/0058712").URPN.	(USPAT)	OR	ON	ON	2022/06/16 10:27 PM
L228	11	("6715185"|"7904994"|"20080286067"|"20110113598"|"2980478"|"6772484"|"2980478"|"20040083583"|"20110035909"|"5195793"|"6715185"|"7527553").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:28 PM
L229	60	("3037596" | "4581793" | "5897278" | "6457217").PN. OR ("6715185").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:29 PM
L230	37	("20050242247" | "20060239796" | "20070057124" | "20070126211" | "20100186197" | "20130119208" | "20140131528" | "3090826" | "4557455" | "5065562" | "5112013" | "5224244" | "5407160" | "5766218" | "5921510" | "6105908" | "6394695" | "6550723" | "6715185" | "7229052" | "7360744" | "7404548" | "7503528" | "7669807" | "7753320" | "7762503" | "7832693" | "7988105" | "8221042" | "8282047" | "8313064" | "8991774" | "9045094" | "D741691").PN. OR ("9970573").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:29 PM
L231	53	("4186902" | "4272047" | "4708306" | "4735387"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:31 PM

		| "4766651").PN. OR ("5112013").URPN.					
L232	14	("20100194170"|"3854192"|"5221585"|"6135666"|"7044677"|"6135666"|"5083726"|"5944388"|"5921606"|"5871318"|"3854192"|"6131286"|"5221585"|"6131286"|"6241144"|"20100194170"|"6241144"|"8182183"|"7044677"|"7390063"|"5489172"|"7390063").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:34 PM
L233	57	("2009/0140112").URPN.	(USPAT)	OR	ON	ON	2022/06/16 10:37 PM
L234	6053	H01R13/627,6271,6272,6273,62787.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:39 PM
L235	1625	A63H33/062,08,084,086.cpc..cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:40 PM
L236	20	("20030005594" | "2271928" | "2345312" | "2963946" | "3537697" | "4817809" | "4968012" | "5107599" | "5244300" | "5481811" | "5829151" | "6298572" | "8621761").PN. OR ("10933501").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:42 PM
L237	20	("2339161" | "4134175" | "4154527" | "4344658" | "4804277" | "5131733" | "5457520" | "5511885" | "5538475" | "5632684" | "5636820" | "5651632" | "5716161" | "5810272" | "5852760" | "5857129" | "6024497" | "6058280").PN. OR ("6481915").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 10:56 PM
L238	62	("3084407" | "3631994" | "4046295" | "4083481" | "4299344" | "4420078" | "4479596" | "4485946" | "4641370" | "4736877" | "4754528" | "4761823" | "4775083" | "4801059").PN. OR ("4858798").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 11:06 PM
L239	280	("10106180" | "10434638" | "10583962" | "10750833" | "10793172" | "10829268" | "11008136" | "1112943"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 11:13 PM

		| "1488460" | "20020000440" | "20020125072" | "20020171228" | "20030094393" | "20030115715" | "20030146589" | "20030184034" | "20030205877" | "20040103494" | "20040195793" | "20040206656" | "20050062244" | "20050104308" | "20050139745" | "20060006770" | "20060027475" | "20060038367" | "20060113303" | "20060119060" | "20060186624" | "20060254946" | "20070068757" | "20070090616" | "20070145700" | "20070194543" | "20080104921" | "20080115312" | "20080121547" | "20080134607" | "20080169739" | "20080271280" | "20080277221" | "20080308369" | "20090026901" | "20090071990" | "20090145790" | "20090145866" | "20090145913" | "20090178946" | "20090236482" | "20100052276" | "20100139566" | "20100147642" | "20100219193" | "20110073516" | "20110139665" | "20110155613" | "20110174939" | "20110181008" | "20110220531" | "20120152800" | "20120160886" | "20120180250" | "20120207571" | "20120292213" | "20120326406" | "20130024468" |					

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		"4971201" | "5035445" | "5098235" | "5105947" | "5240264" | "5301829" | "5429260" | "5538213" | "5595228" | "5608603" | "5628443" | "5797617" | "5951037" | "5988473" | "6050660" | "6085925" | "6109627" | "6176559" | "6305498" | "6347847" | "6367631" | "6371320" | "6431580" | "6547347" | "6601930" | "6619772" | "6637707" | "6641013" | "6945546" | "6948691" | "6983946" | "7044484" | "7066475" | "7083061" | "7147243" | "7152752" | "7263742" | "7367571" | "7503569" | "7658887" | "7690856" | "7779764" | "7780026" | "7841144" | "8028845" | "8132819" | "8177463" | "8191910" | "8454033" | "8459495" | "8505729" | "8567796" | "8677661" | "8689396" | "8714355" | "8813960" | "8875888" | "8979100" | "8985922" | "9132543" | "9506489" | "9511491" | "9566990" | "9616562" | "9643629" | "9701443" | "9725209" | "9872562" | "D232798" | "D285986" | "D319016" | "D325324" | "D326815" | "D340167" | "D352208" | "D361511" | "D395533" | "D415393" | "D420860" | "D437669" | "D456972").PN. OR ("D525789" | "D527225" | "D536580" | "D630851" | "D649350" | "D653832" | "D661858" | "D663952" | "D664354" | "D668869" | "D674605" | "D701696" | "D738105" | "D738106" | "D753394" | "D753395" | "D753396" | "D765974" | "D770179" | "D777426" | "D784089" | "D790221" | "D803631"					

		| "D806483" | "D814187" | "D815831" | "D816334" | "D826510" | "D828671" | "D831352" | "D833744" | "D836995" | "D837515" | "D839681" | "D845080" | "D845081" | "D857387" | "D871013" | "D873085" | "D880252" | "D880951" | "D883752" | "D887788" | "D888422" | "D888503" | "D891193" | "D891195" | "D891875" | "D892565" | "D895375" | "D895966" | "D895967" | "D896517" | "D896518" | "D898320" | "D917977").PN. OR ("11338959").URPN.					
L240	34	("2005/0104308").URPN.	(USPAT)	OR	ON	ON	2022/06/16 11:16 PM
L241	28	("2003/0184034").URPN.	(USPAT)	OR	ON	ON	2022/06/16 11:17 PM
L242	8	("20020015538" | "20030127296" | "20030184034" | "20040074725" | "20070028642" | "20190142125" | "4538709" | "5660476").PN. OR ("11058196").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 11:19 PM
L243	9	("2004/0074725").URPN.	(USPAT)	OR	ON	ON	2022/06/16 11:19 PM
L244	50	("20020030425" | "20110049824" | "20110181008" | "6176559" | "6601930" | "D565269" | "D630851").PN. OR ("D653832").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 11:52 PM
L245	20	("10106180" | "10227078" | "20100314978" | "20110049824" | "20110132853" | "20110192810" | "20120085714" | "20140375181" | "20150336710" | "20160046309" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/16 11:53 PM

		"20170151972" | "20170217464" | "5588659" | "5645177" | "5740910" | "8157337" | "9132543" | "9566990" | "9643629" | "9737141").PN. OR ("10894314").URPN.					
L246	2	("10227078").URPN.	(USPAT)	OR	ON	ON	2022/06/16 11:54 PM
L247	9	("2386343").URPN.	(USPAT)	OR	ON	ON	2022/06/17 12:13 AM
L248	0	"13396858".an.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 01:07 AM
L249	2	"13396858"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 01:07 AM
L250	35	("10399752"|"20020185497"|"20030200822"|"20070125259"|"20100147087"|"20110000919"|"20130045501"|"20130078735"|"20130177937"|"20130248531"|"20150216464"|"20150307013"|"20160345762"|"20170253168"|"20180222033"|"20190120730"|"3308669"|"4805632"|"4927605"|"4960346"|"5086813"|"5197515"|"5199473"|"5237934"|"5269350"|"5660295"|"6030580"|"6578647"|"6715820"|"6845676"|"7272980"|"8684024"|"D435906"|"D494279").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 02:44 AM
L251	3	((("Schwab") near3 ("Mark") near3 ("Jordan"))).INV.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 02:45 AM
L252	47	("20180222033"|"3308669"|"D435906"|"D494279"|"20130177937"|"20070125259"|"5086813"|"6578647"|"4423641"|"7272980"|"20100147087"|"20150216464"|"4927605"|"20110000919"|"20130045501"|"20160345762"|"6845676"|"3118561"|"3528375"|"3930413"|"10399752"|"3013431"|"4174632"|"20130078735"|"4127215"|"4574630"|"4941517"|"4805632"|"3779082"|"5197515"|"5237934"|"566029	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 02:47 AM

		5"|"6030580"|"1429710"|"20130248531"|"20190120730"|"3776042"|"4785676"|"5199473"|"5269350"|"6715820"|"20030200822").PN.					
L253	3	("2010/0147087").URPN.	(USPAT)	OR	ON	ON	2022/06/17 02:48 AM
L254	52	("10399752" | "1429710" | "20020185497" | "20030200822" | "20070125259" | "20100147087" | "20110000919" | "20130045501" | "20130078735" | "20130177937" | "20130248531" | "20150216464" | "20150307013" | "20160345762" | "20170253168" | "20180222033" | "20190120730" | "3013431" | "3118561" | "3308669" | "3528375" | "3776042" | "3779082" | "3930413" | "4127215" | "4174632" | "4423641" | "4574630" | "4785676" | "4805632" | "4927605" | "4941517" | "4960346" | "5086813" | "5197515" | "5199473" | "5237934" | "5269350" | "5660295" | "6030580" | "6578647" | "6715820" | "6845676" | "7272980" | "8684024" | "D435906" | "D494279").PN. OR ("10800594").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 02:48 AM
L255	18	("3776042" | "3779082" | "3985016" | "4056981").PN. OR ("4785676").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 02:59 AM
L256	42	("3559703").PN. OR ("3776042").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 03:00 AM
L257	1	"20210114784".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 03:05 AM
L258	77	(US-20210039831-$ or US-20210031975-$ or US-20190225374-$ or US-20190225371-$ or US-20170121056-$ or US-20120152800-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 05:44 AM

		US-20110139665-$ or US-20180000234-$ or US-20050139745-$ or US-20060096009-$ or US-20140166677-$ or US-20090106942-$ or US-20040194333-$ or US-20070045505-$).did. or (US-10829268-$ or US-D898320-$ or US-10793172-$ or US-7083061-$ or US-7152752-$ or US-5628443-$ or US-4693345-$ or US-4684034-$ or US-4673070-$ or US-4643494-$ or US-D285986-$ or US-4577772-$ or US-4491231-$ or US-3186585-$ or US-1488460-$ or US-1112943-$ or US-11008136-$ or US-D917977-$ or US-7690856-$ or US-7490800-$ or US-6520463-$ or US-5433416-$ or US-5035389-$ or US-11129359-$ or US-10406387-$ or US-7757913-$).did. or (US-6405910-$ or US-4083481-$ or US-7448115-$ or US-6726075-$ or US-2965939-$ or US-5226625-$ or US-8833596-$ or US-7837165-$ or US-11034485-$ or US-1617213-$ or US-5356105-$ or US-10017134-$ or US-1432349-$ or US-8448829-$ or US-0846022-$ or US-6751810-$ or US-9121544-$ or US-1922345-$ or US-1079411-$ or US-4132380-$ or US-2897928-$ or US-5332183-$ or US-6036071-$ or US-					

		5050793-$ or US-8292244-$).did. or (US-2558126-$).did.					
L259	11	("20040256529" | "20050139745" | "20070002529" | "20070045505" | "20070206123" | "20080089019" | "20090262265" | "20100149440" | "8196880" | "8218305").PN. OR ("8292244").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 05:50 AM
L260	15	("2004/0256529").URPN.	(USPAT)	OR	ON	ON	2022/06/17 05:51 AM
L261	19	("20060058070" | "4858798" | "6405910").PN. OR ("7757913").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 05:52 AM
L262	62	("3084407" | "3631994" | "4046295" | "4083481" | "4299344" | "4420078" | "4479596" | "4485946" | "4641370" | "4736877" | "4754528" | "4761823" | "4775083" | "4801059").PN. OR ("4858798").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 05:54 AM
L263	3	("2007/0045505").URPN.	(USPAT)	OR	ON	ON	2022/06/17 06:04 AM
L264	9	("4858878"|"4878645"|"6740851"|"5209445"|"6806425"|"6941469"|"5738020"|"6123314"|"6347439").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:05 AM
L265	42	("0292066" | "0926230" | "1828088" | "2402682" | "3180473" | "3356429" | "3850392" | "4268099" | "4289242" | "4535863" | "4634009").PN. OR ("4858878").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:05 AM
L266	46	("4878645" | "4973023" | "5169114" | "5228584" | "6102348" | "6347439" | "6642453" | "D320928").PN. OR ("6806425").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:07 AM
L267	11	("20040256529" | "20050139745" | "20070002529" | "20070045505" | "20070206123" | "20080089019" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:09 AM

		"20090262265" | "20100149440" | "8196880" | "8218305").PN. OR ("8292244").URPN.					
L268	27	("2005/0139745").URPN.	(USPAT)	OR	ON	ON	2022/06/17 06:10 AM
L269	1	"7757913".pn.	(USPAT)	OR	ON	ON	2022/06/17 06:12 AM
L270	19	("20060058070" | "4858798" | "6405910").PN. OR ("7757913").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:13 AM
L271	19	("20060058070" | "4858798" | "6405910").PN. OR ("7757913").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:14 AM
L272	41	("1079411" | "20020134809" | "20020185509" | "20030042284" | "20030070211" | "20060058070" | "20090120980" | "20090277936" | "20090314295" | "20100200624" | "20100294822" | "20100310823" | "20110126713" | "4389635" | "4534063" | "4673070" | "4899740" | "5035389" | "5152443" | "5226625" | "5267557" | "5697538" | "5762243" | "5833095" | "5996184" | "6038747" | "6206257" | "6401715" | "6405910" | "6405911" | "6508390" | "7448115" | "7454800" | "7658190" | "7726312" | "7757913" | "7819120" | "7900278" | "D646379").PN. OR ("10406387").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:15 AM
L273	48	("20060096009" | "2965939" | "4222595" | "4520533" | "4555812" | "4760980" | "5020196" | "5031244" | "5604958" | "5617587" | "5724707" | "6112377" | "6173479" | "6553635" | "6708379" | "6726075" | "6874163").PN. OR ("7448115").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:15 AM

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 759
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

L274	46	("0157883" | "0665985" | "0676810" | "0718018" | "0782460" | "0810537" | "0944673" | "1148444" | "3743147").PN. OR ("5020196").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:17 AM
L275	30	("2965939").URPN.	(USPAT)	OR	ON	ON	2022/06/17 06:18 AM
L276	193	24/598.4.ccls.	(USPAT)	OR	ON	ON	2022/06/17 06:21 AM
L277	1	"7007903".pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:33 AM
L278	47	("0594035" | "1356745" | "1787734" | "20030038222" | "2173159" | "2210235" | "2588009" | "3840261" | "3915189" | "4028858" | "4176580" | "4228982" | "4566243" | "4620736" | "5035389" | "5165213" | "5240213" | "5348778" | "5356038" | "5433416" | "5435511" | "5566917" | "5707033" | "5758988" | "5802798" | "6082687" | "6227514" | "6481679").PN. OR ("7007903").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:33 AM
L279	34	("1286376" | "1848937" | "2891757" | "3822049" | "3912216" | "3915189" | "4389133" | "4584589" | "4613135" | "5026016" | "5080238" | "5129613" | "5356104" | "5526010").PN. OR ("5707033").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:34 AM
L280	34	("0594035" | "1356745" | "1787734" | "20030038222" | "2173159" | "2210235" | "2588009" | "3840261" | "3915189" | "4028858" | "4176580" | "4228982" | "4566243" | "4620736" | "5035389" | "5165213" | "5240213" | "5348778" | "5356038" | "5433416" | "5435511" | "5566917" | "5707033" | "5758988" | "5802798" | "6082687" | "6227514" | "6481679").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:41 AM
L281	46	("2003/0038222").URPN.	(USPAT)	OR	ON	ON	2022/06/17 06:42 AM

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 760
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

L282	607	248/220.1,224.51.ccls.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 06:47 AM
L283	15	("3622116" | "4340199" | "4701586" | "5035389" | "5226625" | "5356105" | "5425524").PN. OR ("6098941").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 07:02 AM
L284	28	("1167899" | "2533799" | "2596332" | "3017205" | "3436108" | "3589660").PN. OR ("3858996").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 07:04 AM
L285	37	("0859013" | "2032636" | "2588009" | "2723815" | "3298655" | "3394712").PN. OR ("3622116").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 07:07 AM
L286	14	(("0606208") or ("1339703") or ("1883834") or ("1908147") or ("1966505") or ("2248410") or ("2271928")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/06/17 07:09 AM
L287	7	("2271928").URPN.	(USPAT)	OR	ON	ON	2022/06/17 07:11 AM
L288	40	("0919896" | "1196617" | "1758404" | "1845693" | "1983060" | "2103106" | "2271928" | "2336385" | "2688688" | "2695658" | "2841353" | "3016980" | "3088092" | "3175341" | "3483670" | "3501898").PN. OR ("3835623").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 07:12 AM
L289	19	("2103106").URPN.	(USPAT)	OR	ON	ON	2022/06/17 07:13 AM
L290	54	("1794700" | "2103106" | "3131251" | "3928894" | "4401222" | "5000411" | "5709057" | "5803414").PN. OR ("6497395").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/17 07:15 AM
L291	23	("1794700").URPN.	(USPAT)	OR	ON	ON	2022/06/17 07:16 AM
L292	108	(US-20080280523-$ or US-20070006542-$ or US-20060165482-$ or US-20040149754-$ or US-20120073995-$ or US-20210316909-$ or US-20130206806-$ or US-20130206139-$ or US-20110049824-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/18 01:04 AM

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 761
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

		US-20090309323-$ or US-20080143069-$ or US-20030001348-$ or US-20100320710-$ or US-20060119058-$ or US-20120049474-$ or US-20210329802-$ or US-20220121091-$ or US-20200267852-$ or US-20190093802-$ or US-20130062489-$ or US-20110204758-$ or US-20210317859-$ or US-20210071699-$ or US-20130071176-$ or US-20130058712-$ or US-20120299352-$).did. or (US-20090140112-$ or US-20050104308-$ or US-20050062244-$ or US-20030184034-$ or US-20040074725-$ or US-20070045505-$ or US-20040256529-$ or US-20060058070-$).did. or (US-8894160-$ or US-7350648-$ or US-6371321-$ or US-5454634-$ or US-5154291-$ or US-4660725-$ or US-4564732-$ or US-3851936-$ or US-3567298-$ or US-3552817-$ or US-2386343-$ or US-10406387-$ or US-6409429-$ or US-9132543-$ or US-10086858-$ or US-8459515-$ or US-7823893-$ or US-6131926-$ or US-6520514-$ or US-5207723-$ or US-5799958-$ or US-6341789-$ or US-5704624-$ or US-10322735-$ or US-9566991-$ or US-D764138-$).did. or (US-1333075-$ or US-6010306-$ or US-1951196-$ or US-6715185-$ or US-9970573-$ or US-6394695-$ or US-					

		5112013-$ or US-D769111-$ or US-9222499-$ or US-9917398-$ or US-10933501-$ or US-5951037-$ or US-6481915-$ or US-0114948-$ or US-9551367-$ or US-4858798-$ or US-3804432-$ or US-9888752-$ or US-D653832-$ or US-10894314-$ or US-10227078-$ or US-6123344-$ or US-4363496-$ or US-8292244-$ or US-2965939-$ or US-7007903-$ or US-5707033-$).did. or (US-9683696-$ or US-10815662-$ or US-8448829-$ or US-6098941-$ or US-4176580-$ or US-3858996-$ or US-6354759-$ or US-4735107-$ or US-3622116-$ or US-3985322-$ or US-2588009-$ or US-2271928-$ or US-3835623-$ or US-2103106-$ or US-7121417-$ or US-6497395-$ or US-1794700-$ or US-1196617-$ or US-2210235-$).did. or (US-2271928-$ or US-3052484-$).did.					
L293	34	("10750833"|"3567298"|"6371321"|"20060076261"|"4564732"|"5454634"|"D898320"|"2386343"|"8894160"|"10933501"|"D285986"|"5433416"|"20080280523"|"20040149754"|"3552817"|"7350648"|"11008136"|"7837165"|"20070006542"|"4660725"|"20200029543"|"4243279"|"20060165482"|"3851936"|"5154291"|"1084360"|"3999818"|"8925752"|"6082687"|"7172164").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/18 01:05 AM

L294	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/18 01:05 AM

		US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-					

		2042387-$ or US- 0376917-$ or US- 0349013-$ or US- 0326406-$ or US- 0320243-$ or US- 0318927-$ or US- 0308369-$ or US- 0299027-$ or US- 0296443-$ or US- 0292213-$ or US- 0290288-$ or US- 0277221-$ or US- 0274362-$ or US- 0271616-$ or US- 0271280-$ or US- 0266804-$ or US- 0257958-$ or US- 0254946-$ or US- 0243925-$).did. or (US- 0242144-$ or US- 0239808-$ or US- 0236482-$ or US- 0225371-$ or US- 0223971-$ or US- 0221177-$ or US- 0220758-$ or US- 0220531-$ or US- 0219193-$ or US- 0217464-$ or US- 0207571-$ or US- 0206656-$ or US- 0205877-$ or US- 0195793-$ or US- 0194543-$ or US- 0186624-$ or US- 0186513-$ or US- 0184034-$ or US- 0181008-$ or US- 0180250-$ or US- 0178946-$ or US- 0174939-$ or US- 0174392-$ or US- 0171228-$ or US- 0169739-$ or US- 0168880-$ or US- 0168376-$).did. or (US- 0166516-$ or US- 0166352-$ or US- 0165828-$ or US- 0165036-$ or US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US- 0147781-$ or US- 0147642-$ or US-				

		0146589-$ or US- 0145913-$ or US- 0145866-$ or US- 0145790-$ or US- 0145700-$ or US- 0144500-$ or US- 0139745-$ or US- 0139665-$ or US- 0139566-$ or US- 0138382-$ or US- 0134607-$ or US- 0130034-$ or US- 0127146-$ or US- 0127129-$ or US- 0125072-$).did. or (US- 0121783-$ or US- 0121547-$ or US- 0121056-$ or US- 0119060-$ or US- 0115715-$ or US- 0115312-$ or US- 0106244-$ or US- 0104921-$ or US- 0104308-$ or US- 0103494-$ or US- 0099405-$ or US- 0094393-$ or US- 0090616-$ or US- 0076759-$ or US- 0074158-$ or US- 0073516-$ or US- 0071990-$ or US- 0068903-$ or US- 0068757-$ or US- 0062244-$ or US- 0055534-$ or US- 0052276-$ or US- 0044059-$ or US- 0039781-$ or US- 0038367-$ or US- 0034515-$ or US- 0031732-$).did. or (US- 0031731-$ or US- 0031222-$ or US- 0027475-$ or US- 0026901-$ or US- 0024468-$ or US- 0023349-$ or US- 0006770-$ or US- 0002004-$ or US- 0000440-$ or US- D892565-$ or US- D891875-$ or US- D891195-$ or US- D891193-$ or US- D888503-$ or US- D888422-$ or US- D887788-$ or US-					

		D883752-$ or US- D880951-$ or US- D880252-$ or US- D873085-$ or US- D871013-$ or US- D857387-$ or US- D845081-$ or US- D845080-$ or US- D839681-$ or US- D837515-$ or US- D836995-$).did. or (US- D833744-$ or US- D831352-$ or US- D828671-$ or US- D826510-$ or US- D816334-$ or US- D815831-$ or US- D814187-$ or US- 9872562-$ or US- D806483-$ or US- D803631-$ or US- 9725209-$ or US- 9701443-$ or US- D790221-$ or US- 9643629-$ or US- D784089-$ or US- 9616562-$ or US- 9566990-$ or US- D777426-$ or US- 9511491-$ or US- 9506489-$ or US- D770179-$ or US- D765974-$ or US- D753396-$ or US- D753395-$ or US- D753394-$ or US- 9132543-$ or US- D738106-$).did. or (US- D738105-$ or US- 8985922-$ or US- 8979100-$ or US- 8875888-$ or US- 8813960-$ or US- 8714355-$ or US- 8689396-$ or US- D701696-$ or US- 8677661-$ or US- 8567796-$ or US- 8505729-$ or US- 8459495-$ or US- 8454033-$ or US- 8448829-$ or US- D674605-$ or US- D668869-$ or US- D664354-$ or US- D663952-$ or US- D661858-$ or US- 8191910-$ or US-				

		8177463-$ or US- 8132819-$ or US- D653832-$ or US- D649350-$ or US- 8028845-$ or US- D630851-$ or US- 7841144-$).did. or (US- 7780026-$ or US- 7779764-$ or US- 7658887-$ or US- 7503569-$ or US- 7367571-$ or US- 7263742-$ or US- D536580-$ or US- 7147243-$ or US- D527225-$ or US- D525789-$ or US- 7066475-$ or US- 7044484-$ or US- 6983946-$ or US- 6948691-$ or US- 6945546-$ or US- 6641013-$ or US- 6637707-$ or US- 6619772-$ or US- 6601930-$ or US- 6547347-$ or US- 6431580-$ or US- D456972-$ or US- 6371320-$ or US- 6367631-$ or US- 6347847-$ or US- 6305498-$ or US- D437669-$).did. or (US- 6176559-$ or US- 6109627-$ or US- 6085925-$ or US- 6050660-$ or US- D420860-$ or US- 5988473-$ or US- D415393-$ or US- 5957421-$ or US- 5951037-$ or US- 5890613-$ or US- 5797617-$ or US- 5775046-$ or US- D395533-$ or US- 5653366-$ or US- 5628443-$ or US- 5608603-$ or US- 5595228-$ or US- 5538213-$ or US- D361511-$ or US- 5429260-$ or US- D352208-$ or US- 5301829-$ or US- 5282554-$ or US- D340167-$ or US-				

		5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-					

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 770
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

		0181008-$ or US- 0180250-$ or US- 0178946-$ or US- 0174939-$ or US- 0174392-$ or US- 0171228-$ or US- 0169739-$ or US- 0168880-$ or US- 0168376-$ or US- 0166516-$ or US- 0166352-$ or US- 0165828-$ or US- 0165036-$).did. or (US- 0161975-$ or US- 0161518-$ or US- 0160886-$ or US- 0155613-$ or US- 0154218-$ or US- 0153312-$ or US- 0147781-$ or US- 0147642-$ or US- 0146589-$ or US- 0145913-$ or US- 0145866-$ or US- 0145790-$ or US- 0145700-$ or US- 0144500-$ or US- 0139745-$ or US- 0139665-$ or US- 0139566-$ or US- 0138382-$ or US- 0134607-$ or US- 0130034-$ or US- 0127146-$ or US- 0127129-$ or US- 0125072-$ or US- 0121783-$ or US- 0121547-$ or US- 0121056-$ or US- 0119060-$).did. or (US- 0115715-$ or US- 0115312-$ or US- 0106244-$ or US- 0104921-$ or US- 0104308-$ or US- 0103494-$ or US- 0099405-$ or US- 0094393-$ or US- 0090616-$ or US- 0076759-$ or US- 0074158-$ or US- 0073516-$ or US- 0071990-$ or US- 0068903-$ or US- 0068757-$ or US- 0062244-$ or US- 0055534-$ or US- 0052276-$ or US-				

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 771
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

		0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.					
L295	58	(US-20210104909-$ or US-20200078929-$ or US-20120073995-$ or US-20210316909-$ or US-20210221561-$ or US-20210094600-$ or US-20170158216-$ or US-20160213115-$ or US-20140197059-$ or US-20140062042-$ or US-20090288970-$ or US-20070273114-$ or US-20030075468-$ or US-20020030425-$).did. or (US-11283117-$ or US-11066089-$ or US-D649783-$ or US-0104909-$ or US-0078929-$ or US-0073995-$ or US-11230410-$ or US-D941020-$ or US-D936030-$ or US-11155382-$ or US-D932186-$ or US-D920671-$ or US-D919296-$ or US-D918584-$ or US-D897103-$ or US-D876833-$ or US-RE47022-$ or US-D437484-$ or US-5035389-$ or US-0316909-$ or US-0288970-$ or US-0273114-$ or US-0221561-$ or US-0213115-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/18 01:06 AM

		0197059-$ or US-0158216-$).did. or (US-0094600-$ or US-0075468-$ or US-0062042-$ or US-0030425-$).did. or (US-0104909-$ or US-0078929-$ or US-0073995-$ or US-0316909-$ or US-0288970-$ or US-0273114-$ or US-0221561-$ or US-0213115-$ or US-0197059-$ or US-0158216-$ or US-0094600-$ or US-0075468-$ or US-0062042-$ or US-0030425-$).did.					
L296	83	L292 not (L293 L294 L295)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/18 01:06 AM
L297	3	"10406387"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/18 01:11 AM
L298	3	(("7007903") or ("10406387") or ("9132543")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2022/06/18 01:12 AM
L299	56	("10750833"|"3567298"|"6371321"|"20040256529"|"20130206139"|"6131926"|"20060076261"|"4564732"|"5454634"|"20040074725"|"2103106"|"4735107"|"6354759"|"8292244"|"D898320"|"2386343"|"8894160"|"10933501"|"D285986"|"5433416"|"20080280523"|"6123344"|"7007903"|"7121417"|"20040149754"|"3552817"|"7350648"|"6497395"|"11008136"|"7837165"|"20070006542"|"4660725"|"20070045505"|"20110049824"|"2588009"|"9132543"|"20200029543"|"4243279"|"20060165482"|"3851936"|"5154291"|"10406387"|"10894314"|"2210235"|"1084360"|"3999818"|"8925752"|"6082687"|"7172164").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/10/18 10:29 PM
L300	316	("0509839" | "1084360" | "2042387" | "2430200" | "2970358" | "3117692"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/10/18 10:29 PM

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 773
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

		| "3225865" | "3506321" | "3514170" | "3743372" | "D232798" | "3974898" | "3999818" | "4122925" | "4168076" | "4243279" | "D285986" | "4673070" | "4805859" | "4971201" | "5035445" | "D319016" | "5098235" | "D325324" | "5105947" | "D326815" | "5240264" | "D340167" | "5282554" | "5301829" | "5325966" | "D352208" | "5375709" | "5429235" | "5429260" | "5433416" | "D361511" | "5538213" | "5595228" | "5608603" | "5628443" | "5653366" | "D395533" | "5775046" | "5797617" | "5890613" | "5951037" | "5957421" | "D415393" | "5988473" | "D420860" | "6050660" | "6082539" | "6085925" | "6109627" | "6176559" | "D437669" | "6305498" | "6347847" | "6367631" | "6371320" | "D456972" | "6431580" | "6547347" | "6601930" | "6619772" | "6637707" | "6641013" | "6889838" | "6945546" | "6948691" | "6983946" | "7044484" | "7066475" | "D525789" | "D527225" | "7147243" | "D536580" | "7219969" | "7263742" | "7367571" | "7503569" | "7658887" | "7690856" | "7779764" | "7780026" | "7841144" | "D630851" | "8028845" | "D649350" | "D653832" | "8132819" | "8177463" | "D661858" | "8191910" | "D663952" | "D664354" | "D668869" | "D674605" | "8448829" | "8454033" | "8459495" | "8505729" | "8567796" | "8602217" | "8640913" | "8677661" | "D701696" | "8689396" | "8714355" | "8813960" | "8875888" | "8925752" | "8979100" | "8985922" | "D738105" | "D738106" | "D738622" | "9132543" |				

		"D753394" | "D753395" | "D753396" | "D753982" | "D765974" | "D770179" | "9506489" | "9511491" | "D777426" | "9566990" | "D784089" | "9616562" | "9643629" | "D790221" | "9701443" | "9725209" | "D803631" | "9850029" | "D806483" | "9872562" | "D814187" | "D815831" | "D816334" | "D826510" | "D828671" | "D831352" | "10106180" | "D833744" | "D836995" | "D839681" | "D837515" | "D845080" | "D845081" | "D857387" | "10434638" | "D871013" | "D873085" | "10583962" | "10603783" | "D880252" | "D880951" | "D883752" | "D887788" | "D888422" | "D888503" | "D891193" | "D891195" | "10703534" | "D891875" | "D892565" | "10750833" | "D895375" | "D895966" | "D895967" | "D896517" | "D896518" | "10758065" | "D898320" | "10793172" | "10829269" | "10933501" | "20020000440" | "20020125072" | "20020171228" | "20030094393" | "20030115715" | "20030146589" | "20030184034" | "20030205877" | "20040103494" | "20040195793" | "20040206656" | "20050062244" | "20050104308" | "20050139745" | "20050242144" | "20060006770" | "20060027475" | "20060038367" | "20060119060" |				

		"20060186624" |					
		"20060254946" |					
		"20070068757" |					
		"20070090616" |					
		"20070145700" |					
		"20070194543" |					
		"20080104921" |					
		"20080115312" |					
		"20080121547" |					
		"20080134607" |					
		"20080169739" |					
		"20080271280" |					
		"20080277221" |					
		"20080296443" |					
		"20080308369" |					
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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 778
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

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PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Milwaukee Electric Tool Corporation et al.
Title:	Utility Assembly and Coupling Mechanism
Appl. No.:	17/132,609
Filing Date:	December 23, 2020
Examiner:	WEINERTH, GIDEON R
Art Unit:	3736
Confirmation No:	8591

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.111

This communication is responsive to the Non-Final Office Action dated June 24, 2022, concerning the above-referenced patent application.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this document.

Remarks begin on page 8 of this document.

Please amend the application as follows:

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 783
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-20. (Cancelled)

21. (Currently Amended) A utility module assembly comprising:

a first utility module comprising:

a front face; and

a plurality of female couplers comprising a front row of at least two female couplers aligned with each other in a direction parallel to the front face of the first utility module and a rear row of at least two female couplers aligned with each other in the direction parallel to the front face of the first utility module, a first female coupler of the plurality of female couplers ~~each of the female couplers~~ comprising a first rib extending in a first direction from a wall ~~extending~~ above and parallel to an upper face of the first utility module and a second female coupler of the plurality of female couplers comprising a second rib extending opposite the first direction from the wall above and parallel to the upper face of the first utility module, wherein the first rib and the second rib each extend away from each other; and

a second utility module comprising:

a front face; and

a plurality of male couplers comprising a front row of at least two male couplers aligned with each other in a direction parallel to the front face of the second utility module and a rear row of at least two male couplers aligned with each other in the direction parallel to the front face of the second utility module, each of the male couplers extending from a bottom face of the second utility module, each of the male couplers comprising a first tongue extending above and parallel to the bottom face of the second utility module, the first tongue

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 784
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

configured for arresting engagement between one of the first ribs and the upper face of the first utility module.

22. (Currently Amended) The utility module assembly of claim 21, wherein [[a]] the first female coupler ~~of the female couplers~~ and a first male coupler of the male couplers engage when the first and second utility modules are slid along a sliding path defined by the first rib of the first female coupler and the first tongue of [[the]] a first male coupler.

23. (Currently Amended) The utility module assembly of claim 22, each of the female couplers comprising two ribs extending in ~~a second rib extending in a second direction~~ opposite directions ~~the first direction~~.

24. (Currently Amended) The utility module assembly of claim 23, each of the male couplers comprising a second tongue extending above and parallel to the bottom face of the second utility module, the first tongue extending in a third direction and the second tongue extending in a fourth direction opposite the third direction, the first tongue and the second tongue configured for arresting engagement between ~~one of the second ribs and~~ the first utility module and the two ribs of a female coupler.

25. (Previously Presented) The utility module assembly of claim 21, each of the male couplers comprising a second tongue extending above and parallel to the bottom face of the second utility module, the first tongue extending in a third direction and the second tongue extending in a fourth direction opposite the third direction.

26. (Previously Presented) The utility module assembly of claim 24, the plurality of male couplers comprising a first male coupler and a second male coupler adjacent the first male coupler, the first tongue of the first male coupler extending towards the second tongue of the second male coupler.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 785
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

27. (Cancelled)

28. (Currently Amended) A coupling platform for a connectable utility module comprising:

a body extending longitudinally along a longitudinal axis in a first direction, the body defining a first width perpendicular to the longitudinal axis;

a first rib extending away from the body along a first axis in a second direction perpendicular to the first direction, the first rib configured to arrestingly engage between a first face of a utility module and a first male coupler extending from the first face of the utility module, the first male coupler comprising a first tongue extending above and parallel to the first face of the utility module;

a second rib extending away from the body along the first axis in a third direction opposite the second direction and perpendicular to the first direction, the second rib configured to arrestingly engage between the first face of the utility module and a second male coupler extending from the first face of the utility module, the second male coupler comprising a second tongue extending above and parallel to the first face of the utility module, a second width defined by the first rib and the second rib that is perpendicular to the longitudinal axis and that is greater than the first width;

a third rib extending away from the body along a second axis in a fourth direction parallel to the second direction, the third rib configured to arrestingly engage between the first face of the utility module and a third male coupler extending from the first face of the utility module, the first male coupler comprising a third tongue extending above and parallel to the first face of the utility module, the third male coupler distinct from the first male coupler; and

a fourth rib extending away from the body along the second axis in a fifth direction opposite the fourth direction, the fourth rib configured to arrestingly engage between the first face of the utility module and a fourth male coupler extending from the first face of the utility module, the fourth male coupler comprising a fourth tongue extending above and parallel to the first face of the utility module, the fourth male coupler distinct from the second male coupler, a third width defined by the third rib and the fourth rib that is perpendicular to the longitudinal axis and that is greater than the first width.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 786
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

29. (Previously Presented) The coupling platform of claim 28, the body extending from a work stand coupled to a wheeled base.

30. (Cancelled)

31. (Currently Amended) A coupler for a connectable utility module comprising:

a body extending longitudinally along a longitudinal axis in a first direction, the body defining a first width perpendicular to the longitudinal axis;

a first rib linearly and laterally extending away from the body along a first axis in a first direction, the first rib configured to arrestingly engage between a first face of a utility module and a first male coupler extending from the first face of the utility module, the first male coupler comprising a first tongue extending above offset from the first face of the utility module;

a second rib linearly and laterally extending away from the body along the first axis in a second direction opposite the first direction, the second rib configured to arrestingly engage between the first face of the utility module and a second male coupler extending from the first face of the utility module, the second male coupler comprising a second tongue extending above offset from the first face of the utility module, a second width defined by the first rib and the second rib that is perpendicular to the longitudinal axis and that is greater than the first width;

a third rib linearly and laterally extending away from the body along a second axis in a fourth direction parallel to the second direction, the third rib configured to arrestingly engage between the first face of the utility module and a third male coupler extending from the first face of the utility module, the first male coupler comprising a third tongue extending above and parallel to the first face of the utility module, the third male coupler distinct from the first male coupler; and

a fourth rib linearly and laterally extending away from the body along the second axis in a fifth direction opposite the fourth direction, the fourth rib configured to arrestingly engage between the first face of the utility module and a fourth male coupler extending from the first face of the utility module, the fourth male coupler comprising a fourth tongue extending above

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 787
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

and parallel to the first face of the utility module, the fourth male coupler distinct from the second male coupler, a third width defined by the third rib and the fourth rib that is perpendicular to the longitudinal axis and that is greater than the first width; and

a latch recess in the body configured to receive a latch in a locked position in which the latch prevents disengagement of the body from the utility module when the first tongue and the first rib are engaged and the second tongue and the second rib are engaged.

32. (Previously Presented) The coupler of claim 31, wherein the first rib is offset from a first recess and the second rib is offset from a second recess.

33. (Previously Presented) The coupler of claim 31, wherein the latch recess is an elongate recess defining a major axis and a minor axis, wherein the major axis of the latch recess is parallel to the first direction and the second direction.

34. (Previously Presented) The utility module assembly of claim 21,

the second utility module comprising a latch that actuates between a locked position and an unlocked position; and

the first utility module comprising a latch recess configured to receive the latch, in which the latch prevents disengagement of the first utility module from the second utility module when the latch is in the locked position and one or more of the male couplers are engaged with one or more of the female couplers.

35. (Previously Presented) The coupling platform of claim 28, wherein the second male coupler is distinct from the first male coupler.

36. (Previously Presented) The coupling platform of claim 28, wherein the fourth male coupler is distinct from the third male coupler.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 788
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

37. (Previously Presented) The coupler of claim 31, wherein the second male coupler is distinct from the first male coupler.

38. (New) The utility module assembly of claim 21, wherein

the first rib comprises an upper surface and an opposing lower surface, wherein the lower surface of the first rib is below an upper surface of the wall, and wherein the upper surface of the first rib is at least as high as the upper surface of the wall; and

the second rib comprises an upper surface and an opposing lower surface, wherein the lower surface of the second rib is below the upper surface of the wall, and wherein the upper surface of the second rib is at least as high as the upper surface of the wall.

39. (New) The coupler of claim 31, wherein

the first rib comprises an upper surface and an opposing lower surface, wherein the lower surface of the first rib is below an upper surface of the body, and wherein the upper surface of the first rib is at least as high as the upper surface of the body; and

the second rib comprises an upper surface and an opposing lower surface, wherein the lower surface of the second rib is below the upper surface of the body, and wherein the upper surface of the second rib is at least as high as the upper surface of the body.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 789
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

REMARKS

This reply is intended to be completely responsive to the Non-Final Office Action dated June 24, 2022.

Status

Claims 21-26, 28, 29 and 31-37 are pending in this application. Claims 21-26, 28, 29 and 31-37 were rejected.

With this amendment, claims 21-24, 28, and 31 are amended, and new claims 38 and 39 are being added. No claims have been canceled.

Applicant believes that each of the rejections raised by the Examiner has been addressed and the application is in condition for allowance. Reconsideration and allowance of the application is respectfully requested.

Claim Rejections - 35 U.S.C. § 102(a)(1)

I. Rejection of claims 21-26 under 35 U.S.C. § 102(a)(1) as being anticipated by Krepel et al.

On pages 3-4 of the Office Action, the Examiner rejected claims 21-26 under 35 U.S.C. § 102(a)(1) as being anticipated by Krepel et al., U.S. Patent No. 10,406,387 ("Krepel").

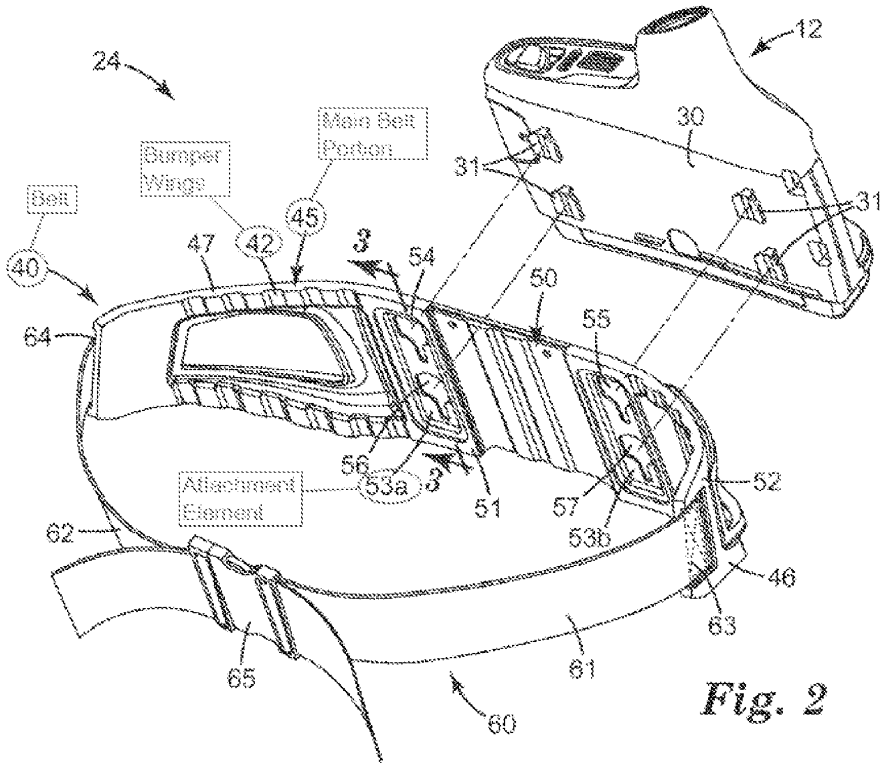
Applicant respectfully submits that Krepel does not disclose "a first rib extending in a first direction from a wall above and parallel to an upper face of the first utility module" and "a second rib extending opposite the first direction from the wall above and parallel to the upper face of the first utility module" as recited in amended claim 21.

As allegedly disclosing the feature of the first rib extending "above and parallel to an upper face of the first utility module" recited in claim 21, the Examiner cites to attachment element 53a in Krepel. Office Action, page 3. In particular, the Examiner states that attachment

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 790
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

element 53a extends "above belt 40 and main belt piece 45 by bumper wings 42." Office Action, page 3.

Applicant respectfully asserts that attachment elements 53a in Krepel does not extend above any surface, let alone "an upper face of the first utility module." In particular, attachment elements 53a in Krepel appear to extend into a void within coupler 54, and thus, attachment elements 53a are not above any surface. As can be seen below, attachment element 53a do not extend above any portion of belt 40. For reference, Fig. 2 from Krepel is copied and annotated below.



Krepel, FIG. 2 (Annotated).

At most, when respiratory element 12 is coupled to belt 40 then attachment elements 53a in Krepel may extend above a surface of respiratory element 12 (i.e., not above a surface of belt

40). However, this is different than amended claim 1, which recites that "a first utility module comprising ... a first female coupler of the plurality of female couplers comprising a first rib extending in a first direction from a wall above and parallel to an upper face of the first utility module." In particular, claim 1 recites that the rib is extending above a surface of the object (i.e.. the first utility module) that the rib is extending from. Krepel does not disclose this configuration.

For at least this reason, Applicant respectfully asserts that independent claim 21, as amended, and related dependent claims 22-26, are not anticipated by Krepel under 35 U.S.C. § 102(a)(1).

Further, Applicant submits that Krepel does not disclose "a first rib extending in a first direction from a wall" and "a second rib extending opposite the first direction from the wall," as recited in amended claim 21. Instead, Krepel appears to show that couplers 54 are a distance apart from each other (see Fig. 2 from Krepel, copied above) and thus two attachment elements 53a do not extend from the same wall in opposite directions.

For at least this additional reason, Applicant respectfully asserts that independent claim 21, as amended, and related dependent claims 22-26, are not anticipated by Krepel under 35 U.S.C. § 102(a)(1).

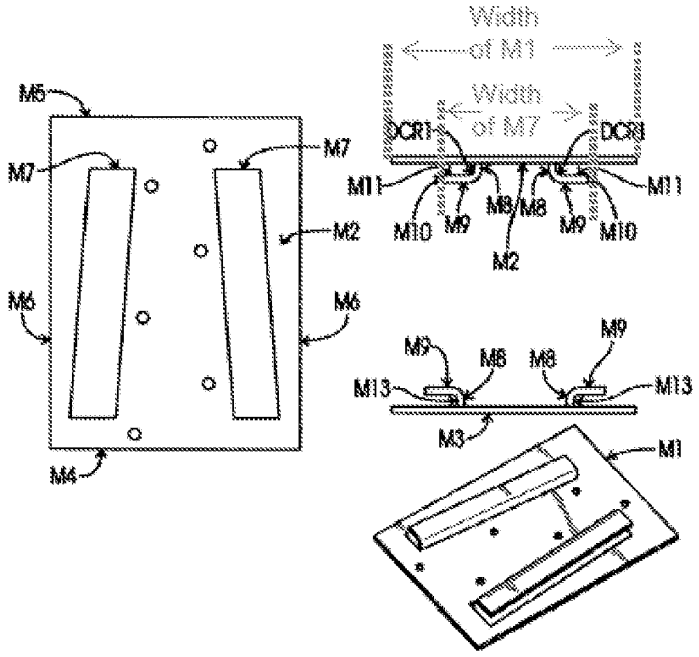
II. Rejection of claims 28, 35 and 36 under 35 U.S.C. § 102(a)(1) as being anticipated by Turner

On pages 4-6 of the Office Action, the Examiner rejected claims 28, 35 and 36 under 35 U.S.C. § 102(a)(1) as being anticipated by Turner, U.S. Patent No. 7,007,903.

Applicant respectfully submits that Turner does not disclose "the body defining a first width perpendicular to the longitudinal axis," "a second width defined by the first rib and the second rib that is perpendicular to the longitudinal axis and that is greater than the first width," and "a third width defined by the third rib and the fourth rib that is perpendicular to the longitudinal axis and that is greater than the first width," as recited in amended claim 28.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 792
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

As allegedly disclosing the first rib and the second rib recited in claim 28, the Examiner cites to male longitudinal connector vanes M7, which extend from male connector base plate M1 ("Turner discloses a first rib (M7)... Turner discloses a second rib (M7)."). Office Action, pages 3-4. For reference, FIG. 8 from Turner is copied and annotated below.



Turner, FIG. 8 (Annotated).

As can be seen above, Turner discloses that the width of connector vanes M7 is less wide than the width of base plate M1, from which connector vanes M7 extend. This is in contrast to claim 28, as amended.

Accordingly, Applicant respectfully asserts that independent claim 28 and related dependent claims 35 and 36, are not anticipated by Turner under 35 U.S.C. § 102(a)(1).

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 793
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

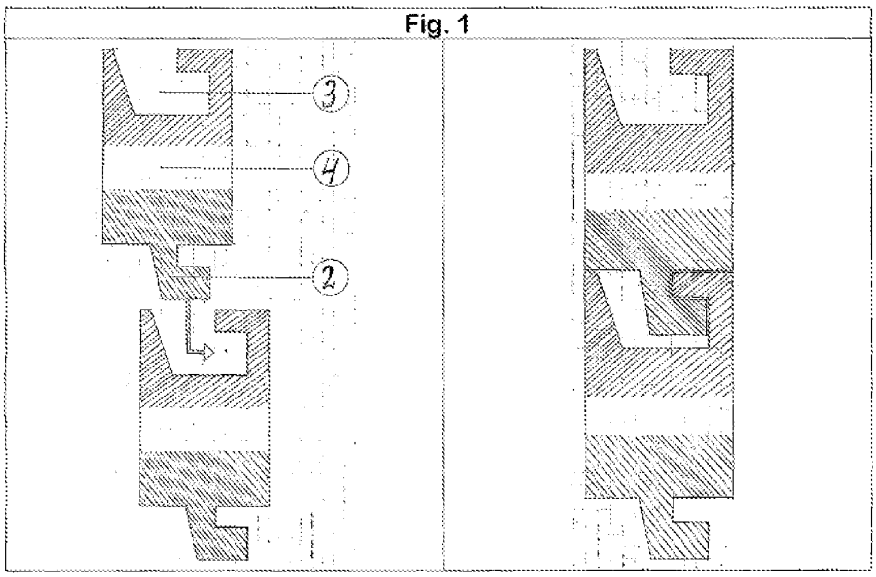
Claim Rejections - 35 U.S.C. § 103

I. Rejection of claim 34 under 35 U.S.C. § 103 as being unpatentable over Krepel et al. and Madsen

On pages 6-7 of the Office Action, the Examiner rejected claim 34 under 35 U.S.C. § 103 as being unpatentable over Krepel and Madsen, U.S. Publication No. 2011/0139665.

Applicant respectfully submits that Krepel and Madsen, either individually or collectively, do not disclose, teach or suggest claim 21, which claim 34 depends from. In particular, Krepel and Madsen do not disclose, teach or suggest "a first rib extending in a first direction from a wall above and parallel to an upper face of the first utility module" and "a second rib extending opposite the first direction from the wall above and parallel to the upper face of the first utility module," as recited in amended claim 21.

As background, Madsen appears to require the projections above bridges 2 are aligned in the same direction. For reference, FIG. 1 from Madsen is copied below.



Madsen, FIG. 1.

As can be seen above, Madsen appears to use a coupling method that relies on the projections above bridges 2 being aligned in the same direction. This is in contrast to claim 21, as amended, which recites "the first rib and the second rib each extend away from each other."

Thus, Applicant respectfully submits that modifying Krepel according to Madsen does not disclose, teach or suggest claim 21, as amended, from which claim 34 relies.

Accordingly, Applicant respectfully asserts that claim 34 is patentable over Krepel and Madsen under 35 U.S.C. § 103 for at least the same reasons that exist for claim 21, from which claim 34 depends.

II. Rejection of claim 29 under 35 U.S.C. § 103 as being unpatentable over Turner and Bar-Erez et al.

On pages 7-8 of the Office Action, the Examiner rejected claim 29 under 35 U.S.C. § 103 as being unpatentable over Turner and Bar-Erez et al., U.S. Patent No. 9,132,543 ("Bar-Erez").

Applicant submits that Bar-Erez does not remedy the deficiencies of Turner with respect to claim 28, from which claim 29 depends. As background, Bar-Erez was cited to teach the element of a wheeled base. Office Action, page 7. Neither the wheeled base of Bar-Erez nor the other elements of Bar-Erez disclose, teach or suggest "a second width defined by the first rib and the second rib that is perpendicular to the longitudinal axis and that is greater than the first width," and "a third width defined by the third rib and the fourth rib that is perpendicular to the longitudinal axis and that is greater than the first width," as recited in amended claim 28.

Accordingly, Applicant respectfully asserts that claim 29 is patentable over Turner and Bar-Erez under 35 U.S.C. § 103.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 795
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

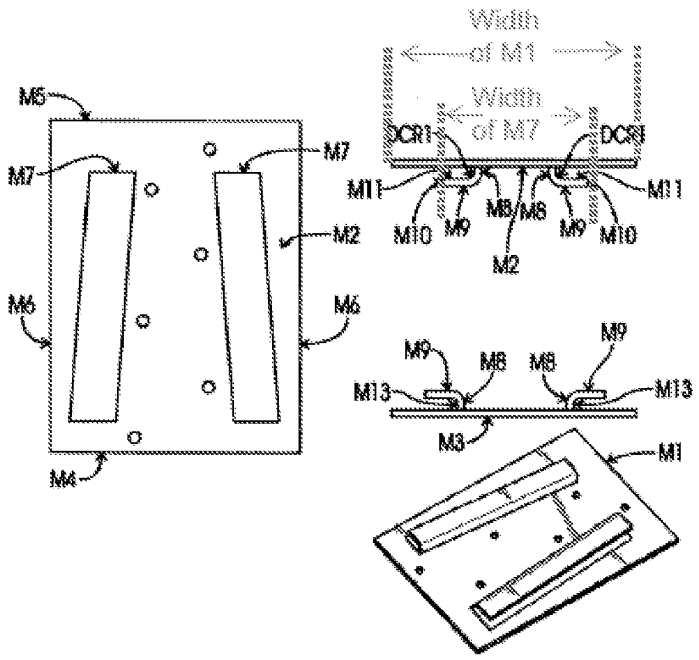
III. Rejection of claims 31, 32, 33 and 37 under 35 U.S.C. § 103 as being unpatentable over Turner and Madsen

On pages 8-10 of the Office Action, the Examiner rejected claims 31, 32, 33 and 37 under 35 U.S.C. § 103 as being unpatentable over Turner and Madsen.

Applicant submits that Turner and Madsen, either alone or in combination, do not disclose, teach or suggest "the body defining a first width perpendicular to the longitudinal axis," "a second width defined by the first rib and the second rib that is perpendicular to the longitudinal axis and that is greater than the first width," and "a third width defined by the third rib and the fourth rib that is perpendicular to the longitudinal axis and that is greater than the first width," as recited in amended claim 31.

As a reminder, as allegedly disclosing the first rib and the second rib recited in claim 21, the Examiner cites to male longitudinal connector vanes M7 in Turner, which extend from male connector base plate M1 in Turner. Office Action, page 4. For reference, FIG. 8 from Turner is copied and annotated below.

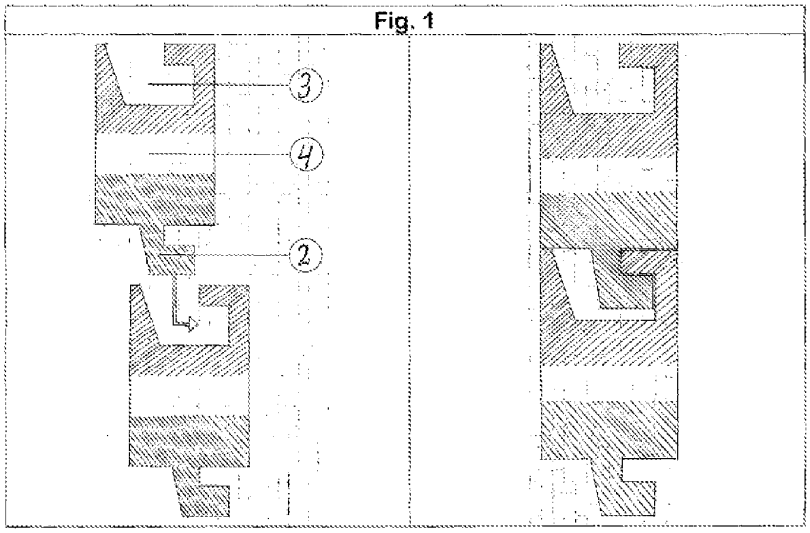
Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 796
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400



Turner, FIG. 8 (Annotated).

Thus, Turner discloses that the width of connector vanes M7 is wider than the width of base plate M1, from which connector vanes M7 extend.

Further, Madsen does not remedy the deficiencies of Turner. In particular, Madsen does not disclose two ribs extending in opposing directions, let alone "a second width defined by the first rib and the second rib that is perpendicular to the longitudinal axis and that is greater than the first width," which claim 31, as amended, recites. Instead, Madsen discloses one or more projections above bridge 2 extending in the same direction. Thus, the projections above bridge 2 do not define a second width that is greater than a first width. For reference, FIG. 1 from Madsen is copied below.



Madsen, FIG. 1.

Thus, Applicant respectfully submits that nothing in Madsen discloses, teaches or suggests "a second width defined by the first rib and the second rib that is perpendicular to the longitudinal axis and that is greater than the first width," which claim 31, as amended, recites.

Accordingly, Applicant respectfully asserts that claims 31, 32, 33 and 37 are patentable over Turner and Madsen under 35 U.S.C. § 103.

New Claims

Applicant has added new dependent claims 38 and 39 to present claims of varying scope. No new matter has been added. Exemplary support for the new claims may be found at least at paragraphs [0215]-[0220], and FIGS. 9C, 21, and 22 of the application as originally filed. New claim 38 depends from independent claim 21, and new claim 39 depends from independent claim 31. Applicant respectfully asserts that new claims 38 and 39 are patentable for at least the same reasons set forth above regarding independent claim 21 and 31, respectively.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 798
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Conclusion

Applicant believes that the present application is in condition for allowance. Favorable reconsideration of the application is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

It should be noted that, for the sake of clarity and simplicity, Applicant's remarks have focused on the rejections of the independent claims set forth in the Office Action with the understanding that the dependent claims are patentable for at least the same reasons as the independent claims. Further, in addressing the Examiner's rejections, Applicant's remarks have set forth only some of the available arguments for patentability of the rejected claims. Applicant expressly reserves the right to argue the patentability of all claims separately and to provide new, different, and/or additional arguments for patentability not set forth herein, including, but not limited to, the failure of cited references to disclose, teach, or suggest other elements of the claims, the lack of motivation to combine cited references, teachings away from the combination of cited references, the failure of references to qualify as prior art or improper combination of the cited references, in this or any future proceedings.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 18-0882. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 18-0882.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 799
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Respectfully submitted,

Date September 23, 2022

By /Derek H. Campbell/

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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 800
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Electronic Acknowledgement Receipt

EFS ID:	46679576
Application Number:	17132609
International Application Number:	
Confirmation Number:	8591
Title of Invention:	Utility Assembly and Coupling Mechanism
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	142078
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2863
Receipt Date:	23-SEP-2022
Filing Date:	23-DEC-2020
Time Stamp:	13:03:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		066749-2863_Non-Final_Office_Action_Response.pdf	230842 ad6407d4cedc1897325aadc566e91579b1c16595	yes	18

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Request for Reconsideration-After Non-Final Rejection	1	1
	Claims	2	7
	Applicant Arguments/Remarks Made in an Amendment	8	18
Warnings:			
Information:			
	Total Files Size (in bytes):	230842	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/132,609	Filing Date 12/23/2020	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $480 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

AMENDMENT	09/23/2022	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 17	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/DANTE SMITH/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/132,609	12/23/2020	Yaron Brunner	066749-2863	8591

142078 7590 06/24/2022

Reinhart (Milwaukee Tool)
ATTN: TRAVIS MCDONNELL, PARALEGAL
1000 NORTH WATER STREET
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EXAMINER	
WEINERTH, GIDEON R	

ART UNIT	PAPER NUMBER
3736	

NOTIFICATION DATE	DELIVERY MODE
06/24/2022	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPAdmin@reinhartlaw.com

Office Action Summary	Application No. 17/132,609	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 06 April 2022.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 21-26,28-29 and 31-37 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 21-26,28-29 and 31-37 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 23 December 2020 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 5/27/2022, 4/7/2022.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 805
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 6, 2022 has been entered.

2. In the Amended Claims of March 11, 2022 claims 21-26, 28, 29, 31-37 are pending. Claims 21, 25, 28, 31, 36 are amended.

Claim Rejections - 35 USC § 103

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having

ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 21-26 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Krepel (US 10406387) Published as US 2013/0206139 on 8/15/2013.

4. Regarding Claim 21, Krepel discloses a utility module assembly with a first utility module (40) comprise a front face; and a plurality of female couplers (54, 55, 56, and 57) comprising a front row of at least two female couplers aligned with each other in a direction parallel to the front face of the first utility module and a rear row of at least two female couplers aligned with each other in the direction parallel to the front face of the first utility module. Each of the female couplers comprise a first rib (53a) extending in a first direction extending above and parallel to an upper face of the first utility module above belt 40 and main belt piece 45 by bumper wings 42.

5. Krepel also discloses a second utility module (12) comprising a front face and a plurality of male couplers (31) comprising a front row of at least two male couplers aligned with each other in a direction parallel to the front face of the second utility module and a rear row of at least two male couplers aligned with each other in the direction parallel to the front face of the second utility module. Each of the male couplers extend from a bottom face of the second utility module. The male couplers comprise a first tongue extending above and parallel to the bottom face of the second utility module, the first tongue configured for arresting engagement between one of the first ribs at 59 and the upper face of the first utility module as discussed in Krepel Col. 10 Lines 20-30.

6. Regarding Claim 22, Krepel discloses first female coupler of the female couplers and a first male coupler of the male couplers engage when the first and second utility

modules are slid along a sliding path defined by the first rib of the first female coupler and the first tongue of the first male coupler.

7. Regarding Claim 23, Krepel discloses each of the female couplers comprise a second rib extending in a second direction opposite the first direction.

8. Regarding Claim 24, Krepel discloses each of the male couplers comprise a second tongue extending above and parallel to the bottom face of the second utility module, the first tongue extending in a third direction and the second tongue extending in a fourth direction opposite the third direction, the second tongue configured for arresting engagement between one of the second ribs and the first utility module.

9. Regarding Claim 25, Krepel discloses each of the male couplers comprise a second tongue extending above and parallel to the bottom face of the second utility module, the first tongue extending in a third direction and the second tongue extending in a fourth direction opposite the third direction.

10. Regarding Claim 26, Krepel discloses the plurality of male couplers comprise a first male coupler and a second male coupler adjacent the first male coupler, the first tongue of the first male coupler extending towards the second tongue of the second male coupler.

11. Claims 28, 35, and 36 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Turner (US 7007903).

12. Regarding Claim 28, Turner discloses a coupling platform (M1) for a connectable utility module comprising a body extending longitudinally in a first direction. Turner discloses a first rib (M7) extending away from the body along a first axis in a second direction perpendicular to the first direction. This first rib (M7) is configured to arrestingly

engage between a first face of a utility module and a first male coupler (with base F1) extending from the first face of the utility module. The first male coupler (with base F1) comprises a first tongue (F9) extending above and parallel to offset from the first face of the utility module. The first male coupler also includes a third tongue.

13. Turner discloses a second rib (M7) extending away from the body along the first axis in a third direction opposite the second direction and perpendicular to the first direction. The second rib (M7) is configured to arrestingly engage between the first face of the utility module and a second male coupler (with base F1) extending from the first face of the utility module, the second male coupler comprising a second tongue (F9) extending above and parallel to from the first face of the utility module.

14. By positioning two or four couplers in a row separated by width web F14 as shown in Figures 10-12, or using a plurality of such couplers as shown in Figures 6 and 7 Turner discloses the use of a single platform with multiple male/female couplers. The second platform (M1) includes a third rib (M7) extending away from the body along a second axis in a fourth direction parallel to the second direction, the third rib (M7) configured to arrestingly engage between the first face of the utility module and a third male coupler (with base F1) extending from the first face of the utility module, the first male coupler comprise a second tongue (F9) extending above and parallel to the first face of the utility module, the third male coupler distinct from the first male coupler.

15. Turner discloses a fourth rib (M7) extending away from the body along the second axis in a fifth direction opposite the fourth direction, the fourth rib configured to arrestingly engage between the first face of the utility module and a fourth male coupler (with base F1) extending from the first face of the utility module, the fourth male coupler

comprise a fourth tongue (F9) extending above and parallel to the first face of the utility module, the fourth male coupler distinct from the second male coupler.

16. Regarding Claim 35, Turner discloses the second male coupler is distinct from the first male coupler.

17. Regarding Claim 36, Turner discloses the fourth male coupler is distinct from the third male coupler.

Claim Rejections - 35 USC § 103

18. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

19. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

20. Claim 34 is rejected under 35 U.S.C. 103 as being unpatentable over Krepel (US 10406387) as applied to claim 21 above, and further in view of Madsen (US 2011/0139665).

21. Regarding Claim 34, Krepel discloses the limitations of Claim 21 as discussed above. Krepel also discloses a latch mechanism where retention projection (35) contacts the edge of interface portion (50) to prevent movement and inadvertent

removal (Col. 9 Lines 4-16, Col. 10 Lines 31-40). Krepel does not disclose a latch and latch recess that prevents disengagement. Madsen discloses a latch recess in the body configured to receive a latch (9) in a locked position in which the latch prevents disengagement of the body from the utility module when the first tongue and the first rib are engaged and the second tongue and the second rib are engaged. Krepel and Madsen are analogous inventions in the art of connectable devices with latch retaining means.

22. It would have been obvious for one having ordinary skill in the art before the effective filing date of the claimed invention to modify the modules of Krepel with the latch and latch recess of Madsen in order to hold modules in place and actuate the latch when desired (Paragraphs 0002, 0009).

23. Claim 29 is rejected under 35 U.S.C. 103 as being unpatentable over Turner (US 7007903) as applied to claim 28 above, and further in view of Bar-Erez (US 9132543).

24. Regarding Claim 29, Turner discloses the limitations of Claim 28 as discussed above. While Turner discloses the use of the coupling platform to form a work bench (Figures 4 and 5, Col. 5 Lines 39-45), Turner does not disclose the body extending from a work stand coupled to a wheeled base.

25. Bar-Erez discloses a similar work stand (10) with mount structures (18) and a wheeled base (12). Bar-Erez discloses the mount structures may be of any configuration that allows containers be mounted thereon (Col. 18 Lines 9-18). Bar-Erez also discloses that mount structures (18a) use sliding connection means with a protrusion (207) retained in a recesses (106a) to retain the containers in position (Col.

19 Line 46-Col. 20 Line 10). Turner and Bar-Erez are analogous inventions in the art of slide mounting structures.

26. It would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the coupling platforms of Turner into the work stand with wheeled base disclosed in Bar-Erez to enable a user to roll the work stand in place by pushing or pulling the apparatus (Col. 5 Lines 55-59).

27. **Claims 31, 32, 33 and 37 are rejected under 35 U.S.C. 103 as being unpatentable over Turner (US 7007903) in view of Madsen (US 2011/0139665)**.

28. Regarding Claim 31, Turner discloses coupler for a connectable utility module comprise a body, a first rib extending away from the body along a first axis in a first direction, the first rib configured to arrestingly engage between a first face of a utility module and a first male coupler extending from the first face of the utility module, the first male coupler comprise a first tongue extending above offset from the first face of the utility module, a second rib extending away from the body along the first axis in a second direction opposite the first direction, the second rib configured to arrestingly engage between the first face of the utility module and a second male coupler extending from the first face of the utility module, the second male coupler comprise a second tongue extending above offset from the first face of the utility module, a third rib extending away from the body along a second axis in a fourth direction parallel to the second direction, the third rib configured to arrestingly engage between the first face of the utility module and a third male coupler extending from the first face of the utility module, the first male coupler comprise a third tongue extending above and parallel to the first face of the utility module, the third male coupler distinct from the first male

coupler. Turner discloses a fourth rib extending away from the body along the second axis in a fifth direction opposite the fourth direction, the fourth rib configured to arrestingly engage between the first face of the utility module and a fourth male coupler extending from the first face of the utility module, the fourth male coupler comprise a fourth tongue extending above and parallel to the first face of the utility module, the fourth male coupler distinct from the second male coupler.

29. Turner does not disclose a latch recess in the body configured to receive a latch in a locked position in which the latch prevents disengagement of the body from the utility module when the first tongue and the first rib are engaged and the second tongue and the second rib are engaged.

30. Madsen discloses a coupler for a connectable utility module comprise a body and rib latching structure with a latch recess in the body configured to receive a latch (9) in a locked position in which the latch prevents disengagement of the body from the utility module when the first tongue and the first rib are engaged and the second tongue and the second rib are engaged.

31. Turner and Madsen are analogous inventions in the art of slide connectable couplers.

32. It would have been obvious for one having ordinary skill in the art before the effective filing date of the claimed invention to modify the modules of Turner with the latch and latch recess of Madsen in order to hold modules in place and actuate the latch when desired (Paragraphs 0002, 0009).

33. Regarding Claim 32, Turner discloses the first rib is offset from a first recess and the second rib is offset from a second recess.

34. Regarding Claim 33, Madsen discloses the latch recess is an elongate recess defining a major axis and a minor axis, wherein the major axis of the latch recess is parallel to the first direction and the second direction.

35. Regarding Claim 37, Turner discloses the second male coupler is distinct from the first male coupler.

Response to Arguments

36. Applicant's arguments with respect to claims 21, 28, and 31 have been considered but are moot because the new ground of rejection does not rely on any reference applied in the prior rejection of record for any teaching or matter specifically challenged in the argument.

Conclusion

37. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

38. Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIDEON R. WEINERTH whose telephone number is (571)270-5121. The examiner can normally be reached Monday-Friday 10AM-6PM EST.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Pickett can be reached on (571) 272-4560. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Notice of References Cited	Application/Control No. 17/132,609	Applicant(s)/Patent Under Reexamination Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	Page 1 of 2

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*	C	US-2588009-A	03-1952	JONES NORMAN B	A47G1/1606	248/224.51
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*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 816
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Notice of References Cited	Application/Control No. 17/132,609	Applicant(s)/Patent Under Reexamination Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	Page 2 of 2

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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 817
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/132,609	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	07/18/2021	01/07/2022	06/18/2022						
	21	✓	✓	✓						
	22	✓	✓	✓						
	23	✓	✓	✓						
	24	✓	✓	✓						
	25	✓	✓	✓						
	26	✓	✓	✓						
	27	✓	✓	-						
	28	✓	✓	✓						
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	31	✓	✓	✓						
	32	✓	✓	✓						
	33	✓	✓	✓						
	34		✓	✓						
	35		✓	✓						
	36		✓	✓						
	37		✓	✓						

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 818
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/132,609	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

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Symbol	**Date**	**Examiner**
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Update Search	07/17/2021	GW
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/GIDEON R WEINERTH/ Examiner, Art Unit 3736	

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 819
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/132,609	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
312	111,199,108	01/05/2022	GW
24	598.4	06/16/2022	GW
246	220.1,224.51	06/16/2022	GW

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor search, IDS Search, update search from applications 15826201, 15826232, 16216724, 16752441	03/11/2021	GW

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
220	4.27		

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 820
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	108	(US-20080280523-$ or US-20070006542-$ or US-20060165482-$ or US-20040149754-$ or US-20120073995-$ or US-20210316909-$ or US-20130206806-$ or US-20130206139-$ or US-20110049824-$ or US-20090309323-$ or US-20080143069-$ or US-20030001348-$ or US-20100320710-$ or US-20060119058-$ or US-20120049474-$ or US-20210329802-$ or US-20220121091-$ or US-20200267852-$ or US-20190093802-$ or US-20130062489-$ or US-20110204758-$ or US-20210317859-$ or US-20210071699-$ or US-20130071176-$ or US-20130058712-$ or US-20120299352-$).did. or (US-20090140112-$ or US-20050104308-$ or US-20050062244-$ or US-20030184034-$ or US-20040074725-$ or US-20070045505-$ or US-20040256529-$ or US-20060058070-$).did. or (US-8894160-$ or US-7350648-$ or US-6371321-$ or US-5454634-$ or US-5154291-$ or US-4660725-$ or US-4564732-$ or US-3851936-$ or US-3567298-$ or US-3552817-$ or US-2386343-$ or US-10406387-$ or US-6409429-$ or US-9132543-$ or US-10086858-$ or US-8459515-$ or US-7823893-$ or US-6131926-$ or US-6520514-$ or US-5207723-$ or US-5799958-$ or US-6341789-$ or US-5704624-$ or US-10322735-$ or US-9566991-$ or US-D764138-$).did. or (US-1333075-$ or US-6010306-$ or US-1951196-$ or US-6715185-$ or US-9970573-$ or US-6394695-$ or US-5112013-$ or US-D769111-$ or US-9222499-$ or US-9917398-$ or US-10933501-$ or US-5951037-$ or US-6481915-$ or US-0114948-$ or US-9551367-$ or US-4858798-$ or US-3804432-$ or US-9888752-$ or US-D653832-$ or US-10894314-$ or US-10227078-$ or US-6123344-$ or US-4363496-$ or US-8292244-$ or US-2965939-$ or US-7007903-$ or US-5707033-$).did. or (US-9683696-$ or US-10815662-$ or US-8448829-$ or US-6098941-$ or US-4176580-$ or US-3858996-$ or US-6354759-$ or US-4735107-$ or US-3622116-$ or US-3985322-$ or US-2588009-$ or US-2271928-$ or US-3835623-$ or US-2103106-$ or US-7121417-$ or US-6497395-$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/18 01:04

		1794700-$ or US-1196617-$ or US-2210235-$).did. or (US-2271928-$ or US-3052484-$).did.				
L2	34	("10750833" | "3567298" | "6371321" | "20060076261" | "4564732" | "5454634" | "D898320" | "2386343" | "8894160" | "10933501" | "D285986" | "5433416" | "20080280523" | "20040149754" | "3552817" | "7350648" | "11008136" | "7837165" | "20070006542" | "4660725" | "20200029543" | "4243279" | "20060165482" | "3851936" | "5154291" | "1084360" | "3999818" | "8925752" | "6082687" | "7172164").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/18 01:05
L22	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/18 01:05

		US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-				

		0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-D816334-$ or US-D815831-$ or US-D814187-$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$ or US-7367571-$ or US-7263742-$ or US-D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$ or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-				

		D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-				

		0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.				
L23	58	(US-20210104909-$ or US-20200078929-$ or US-20120073995-$ or US-20210316909-$ or US-20210221561-$ or US-20210094600-$ or US-20170158216-$ or US-20160213115-$ or US-20140197059-$ or US-20140062042-$ or US-20090288970-$ or US-20070273114-$ or US-20030075468-$ or US-20020030425-$).did. or (US-11283117-$ or US-11066089-$ or US-D649783-$ or US-0104909-$ or US-0078929-$ or US-0073995-$ or US-11230410-$ or US-D941020-$ or US-D936030-$ or US-11155382-$ or US-D932186-$ or US-D920671-$ or US-D919296-$ or US-D918584-$ or US-D897103-$ or US-D876833-$ or US-RE47022-$ or US-D437484-$ or US-5035389-$ or US-0316909-$ or US-0288970-$ or US-0273114-$ or US-0221561-$ or US-0213115-$ or US-0197059-$ or US-0158216-$).did. or (US-0094600-$ or US-0075468-$ or US-0062042-$ or US-0030425-$).did. or (US-0104909-$ or US-0078929-$ or US-0073995-$ or US-0316909-$ or US-0288970-$ or US-0273114-$ or US-0221561-$ or US-0213115-$ or US-0197059-$ or US-0158216-$ or US-0094600-$ or US-0075468-$ or US-0062042-$ or US-0030425-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/18 01:06
L24	83	L1 not (L2 L22 L23)	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/18 01:06
L25	3	"10406387"	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/18 01:11
L26	3	(("7007903") or ("10406387") or ("9132543")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/06/18 01:12
S1	1,051	((("MILWAUKEE") near3 ("ELECTRIC") near3 ("TOOL") near3 ("CORPORATION"))).AS,AANM.	USPAT	OR	ON	2021/03/05 00:56

S2	76	((("Brunner") near3 ("Yaron"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S3	65	((("Squiers") near3 ("Grant") near3 ("T"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S4	99	((("Hoppe") near3 ("Christopher") near3 ("S"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S5	173	((("Hyma") near3 ("Steven") near3 ("W"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S6	570	220/4.27.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S7	411	B65D21/0223.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S8	2,264	A45C5/14.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S9	96	A45C7/005.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S10	3,423	A45C13/02.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S11	441	A45F3/10.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S12	947	B25H1/04.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S13	1,369	B25H3/02,021.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58

S14	1,162	B62B1/14.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S15	753	B65D21/0209,0228.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S16	382	A45C7/0045.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:59
S17	476	B25H3/023.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:59
S18	978	B62B5/067.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:59
S19	45	B65D2255/00.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:59
S20	209	B65H2701/533.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:59
S21	291	(US-D192092-$ | US-0000440-$ | US-0002004-$ | US-0006770-$ | US-0023349-$ | US-0024468-$ | US-0026901-$ | US-0027475-$ | US-0031222-$ | US-0031731-$ | US-0031732-$ | US-0034515-$ | US-0038367-$ | US-0039781-$ | US-0044059-$ | US-0052276-$ | US-0055534-$ | US-0062244-$ | US-0068757-$ | US-0068903-$ | US-0071990-$ | US-0073516-$ | US-0074158-$ | US-0076759-$ | US-0090616-$ | US-0094393-$ | US-0099405-$ | US-0103494-$ | US-0104308-$ | US-0104921-$ | US-0106244-$ | US-0115312-$ | US-0115715-$ | US-0119060-$ | US-0121056-$ | US-0121547-$ | US-0121783-$ | US-0125072-$ | US-0127129-$ | US-0127146-$ | US-0130034-$ | US-0134607-$ | US-0138382-$ | US-0139566-$ | US-0139665-$ | US-0139745-$ | US-0144500-$ | US-0145700-$ | US-0145790-$ | US-0145866-$ | US-0145913-$ | US-0146589-$ | US-0147642-$ | US-0147781-$ | US-0153312-$ | US-0154218-$ | US-0155613-$ | US-0160886-$ | US-	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:40

		0161518-$ | US-0161975-$ | US-0165036-$ | US-0165828-$ | US-0166352-$ | US-0166516-$ | US-0168376-$ | US-0168880-$ | US-0169739-$ | US-0171228-$ | US-0174392-$ | US-0174939-$ | US-0178946-$ | US-0180250-$ | US-0181008-$ | US-0184034-$ | US-0186513-$ | US-0186624-$ | US-0194543-$ | US-0195793-$ | US-0205877-$ | US-0206656-$ | US-0207571-$ | US-0217464-$ | US-0219193-$ | US-0220531-$ | US-0220758-$ | US-0221177-$ | US-0223971-$ | US-0225371-$ | US-0236482-$ | US-0239808-$ | US-0242144-$ | US-0243925-$ | US-0254946-$ | US-0257958-$ | US-0266804-$ | US-0271280-$ | US-0271616-$ | US-0274362-$ | US-0277221-$ | US-0290288-$ | US-0292213-$ | US-0296443-$ | US-0299027-$ | US-0308369-$ | US-0318927-$ | US-0320243-$ | US-0326406-$ | US-0349013-$ | US-0376917-$ | US-10106180-$ | US-10434638-$ | US-10583962-$ | US-10758065-$ | US-2042387-$ | US-2430200-$ | US-2970358-$ | US-20020000440-$ | US-20020125072-$ | US-20020171228-$ | US-20030094393-$ | US-20030115715-$ | US-20030146589-$ | US-20030184034-$ | US-20030205877-$ | US-20040103494-$ | US-20040195793-$ | US-20040206656-$ | US-20050062244-$ | US-20050104308-$ | US-20050139745-$ | US-20050242144-$ | US-20060006770-$ | US-20060027475-$ | US-20060038367-$ | US-20060119060-$ | US-20060186624-$ | US-20060254946-$ | US-20070068757-$ | US-20070090616-$ | US-20070145700-$ | US-20070194543-$ | US-20080104921-$ | US-20080115312-$ | US-20080121547-$ | US-20080134607-$ | US-20080169739-$ | US-20080271280-$ | US-20080277221-$ | US-20080296443-$ | US-20080308369-$ | US-20090026901-$ | US-20090071990-$ | US-20090127146-$ | US-20090145790-$ | US-20090145866-$ | US-20090145913-$ | US-20090178946-$ | US-20090236482-$ | US-20100052276-$ | US-20100139566-$ | US-20100147642-$ | US-20100219193-$ | US-20110073516-$ | US-20110139665-$ | US-20110155613-$ | US-20110174939-$ | US-20110181008-$ | US-20110220531-$ | US-20120074158-$ | US-20120160886-$ | US-20120180250-$ | US-20120207571-$ | US-20120292213-$ | US-20120326406-$ | US-20130024468-$ | US-20130031731-$ | US-				

		20130031732-$ | US-20130068903-$ | US-20130121783-$).DID.				
S22	188	(US-20130127129-$ | US-20130154218-$ | US-20130223971-$ | US-20140076759-$ | US-20140161518-$ | US-20140166516-$ | US-20140000-$ | US-20150034515-$ | US-20150274362-$ | US-20150376917-$ | US-20160023349-$ | US-20160130034-$ | US-20160144500-$ | US-20160168880-$ | US-20160221177-$ | US-20170121056-$ | US-20170138382-$ | US-20170165828-$ | US-20170166352-$ | US-20170174392-$ | US-20170217464-$ | US-20170239808-$ | US-20170257958-$ | US-20170266804-$ | US-20170318927-$ | US-20170349013-$ | US-20180044059-$ | US-20180099405-$ | US-20180153312-$ | US-20180161975-$ | US-20180186513-$ | US-20180220758-$ | US-20180290288-$ | US-20190002004-$ | US-20190031222-$ | US-20190039781-$ | US-20190106244-$ | US-20190168376-$ | US-20190225371-$ | US-20200055534-$ | US-20200147781-$ | US-20200165036-$ | US-20200243925-$ | US-20200299027-$ | US-3117692-$ | US-3225865-$ | US-3506321-$ | US-3514170-$ | US-3743372-$ | US-3974898-$ | US-4168076-$ | US-4805859-$ | US-4971201-$ | US-5035445-$ | US-5098235-$ | US-5105947-$ | US-5240264-$ | US-5282554-$ | US-5301829-$ | US-5429260-$ | US-5538213-$ | US-5595228-$ | US-5608603-$ | US-5628443-$ | US-5653366-$ | US-5775046-$ | US-5797617-$ | US-5890613-$ | US-5951037-$ | US-5957421-$ | US-5988473-$ | US-6050660-$ | US-6085925-$ | US-6109627-$ | US-6176559-$ | US-6305498-$ | US-6347847-$ | US-6367631-$ | US-6371320-$ | US-6431580-$ | US-6547347-$ | US-6601930-$ | US-6619772-$ | US-6637707-$ | US-6641013-$ | US-6945546-$ | US-6948691-$ | US-6983946-$ | US-7044484-$ | US-7066475-$ | US-7147243-$ | US-7263742-$ | US-7367571-$ | US-7503569-$ | US-7658887-$ | US-7779764-$ | US-7780026-$ | US-7841144-$ | US-8028845-$ | US-8132819-$ | US-8177463-$ | US-8191910-$ | US-8448829-$ | US-8454033-$ | US-8459495-$ | US-8505729-$ | US-8567796-$ | US-8677661-$ | US-8689396-$ | US-8714355-$ | US-8813960-$ | US-8875888-$ | US-8979100-$ | US-8985922-$ | US-9132543-$ | US-9506489-$ | US-9511491-$ | US-9566990-$ | US-9616562-$ |	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:40

		US-9643629-$ | US-9701443-$ | US-9725209-$ | US-9872562-$ | US-D232798-$ | US-D319016-$ | US-D325324-$ | US-D326815-$ | US-D340167-$ | US-D352208-$ | US-D361511-$ | US-D395533-$ | US-D415393-$ | US-D420860-$ | US-D437669-$ | US-D456972-$ | US-D525789-$ | US-D527225-$ | US-D536580-$ | US-D630851-$ | US-D649350-$ | US-D653832-$ | US-D661858-$ | US-D663952-$ | US-D664354-$ | US-D668869-$ | US-D674605-$ | US-D701696-$ | US-D738105-$ | US-D738106-$ | US-D753394-$ | US-D753395-$ | US-D753396-$ | US-D765974-$ | US-D770179-$ | US-D777426-$ | US-D784089-$ | US-D790221-$ | US-D803631-$ | US-D806483-$ | US-D814187-$ | US-D815831-$ | US-D816334-$ | US-D826510-$ | US-D828671-$ | US-D831352-$ | US-D833744-$ | US-D836995-$ | US-D837515-$ | US-D839681-$ | US-D845080-$ | US-D845081-$ | US-D857387-$ | US-D871013-$ | US-D873085-$ | US-D880252-$ | US-D880951-$ | US-D883752-$ | US-D887788-$ | US-D888422-$ | US-D888503-$ | US-D891193-$ | US-D891195-$ | US-D891875-$ | US-D892565-$).DID.				
S23	5	(US-D895375-$ | US-D895966-$ | US-D895967-$ | US-D896517-$ | US-D896518-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:41
S24	2	(("9850029") or ("20120074022")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/03/11 16:42
S25	12	("1882756" | "2361079" | "2374037" | "2488067" | "3985409" | "4621308" | "7278234").PN. OR ("9850029").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:42
S26	1,056	((("MILWAUKEE") near3 ("ELECTRIC") near3 ("TOOL") near3 ("CORPORATION"))).AS,AANM.	USPAT	OR	ON	2021/03/11 16:42
S27	76	((("Brunner") near3 ("Yaron"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:42
S28	65	((("Squiers") near3 ("Grant") near3 ("T"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:42

S29	99	((("Hoppe") near3 ("Christopher") near3 ("S"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:42
S30	174	((("Hyma") near3 ("Steven") near3 ("W"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:42
S31	570	220/4.27.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:44
S32	412	B65D21/0223.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:44
S33	2,264	A45C5/14.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45
S34	96	A45C7/005.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45
S35	3,426	A45C13/02.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45
S36	947	B25H1/04.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45
S37	1,369	B25H3/02,021.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45
S38	1,162	B62B1/14.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45
S39	753	B65D21/0209,0228.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46
S40	382	A45C7/0045.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46

S41	476	B25H3/023.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46
S42	979	B62B5/067.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46
S43	45	B65D2255/00.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46
S44	209	B65H2701/533.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46
S45	160	("10434638" | "20020000440" | "20020171228" | "20030115715" | "20030146589" | "20030184034" | "20030205877" | "20040103494" | "20040195793" | "20040206656" | "20050062244" | "20050104308" | "20050139745" | "20060006770" | "20060027475" | "20060038367" | "20060119060" | "20060186624" | "20060254946" | "20070068757" | "20070090616" | "20070145700" | "20070194543" | "20080104921" | "20080115312" | "20080121547" | "20080134607" | "20080169739" | "20080271280" | "20080277221" | "20080308369" | "20090071990" | "20090145790" | "20090145866" | "20090145913" | "20090178946" | "20100052276" | "20100139566" | "20100147642" | "20100219193" | "20110073516" | "20110139665" | "20110155613" | "20110181008" | "20110220531" | "20120160886" | "20120180250" | "20120207571" | "20120326406" | "20130024468" | "20130031731" | "20130031732" | "20130121783" | "20130127129" | "20130223971" | "20140161518" | "20140166516" | "20160023349" | "20160130034" | "20160144500" | "20160168880" | "20170121056" | "20170138382" | "20170165828" | "20170166352" | "20170174392" | "20170217464" | "20170239808" | "20170257958" | "20170266804" |	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 17:12

		"20170318927" | "20180044059" | "20180161975" | "20180220758" | "20180290288" | "20190002004" | "20190039781" | "20190106244" | "20190225371" | "2042387" | "2430200" | "2970358" | "3117692" | "3506321" | "3974898" | "4168076" | "5035445" | "5105947" | "5240264" | "5301829" | "5429260" | "5595228" | "5608603" | "5628443" | "5797617" | "5951037" | "5988473" | "6050660" | "6085925").PN. OR ("6109627" | "6176559" | "6347847" | "6367631" | "6371320" | "6431580" | "6547347" | "6601930" | "6619772" | "6637707" | "6641013" | "6945546" | "6948691" | "6983946" | "7044484" | "7066475" | "7147243" | "7263742" | "7367571" | "7503569" | "7658887" | "7780026" | "7841144" | "8028845" | "8132819" | "8177463" | "8191910" | "8454033" | "8459495" | "8677661" | "8689396" | "8714355" | "8813960" | "8875888" | "8985922" | "9132543" | "9506489" | "9566990" | "9616562" | "9643629" | "9701443" | "9872562" | "D525789" | "D630851" | "D663952" | "D664354" | "D674605" | "D701696" | "D753394" | "D753395" | "D765974" | "D770179" | "D790221" | "D814187" | "D833744" | "D837515").PN. OR ("10583962").URPN.				
S46	364	("2430200").URPN.	USPAT	OR	ON	2021/03/11 17:24
S47	10	(("0713577") or ("1015584") or ("0213740") or ("2371856") or ("2360933")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/03/11 17:26
S48	1	("20200223585").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/03/11 17:28
S49	0	("2020/0223585").URPN.	USPAT	OR	ON	2021/03/11 17:28
S50	8	("2019/0002004").URPN.	USPAT	OR	ON	2021/03/11 17:30
S51	0	("2020/0029543").URPN.	USPAT	OR	ON	2021/03/11 17:42
S52	47	("3606372" | "4170801" | "9832985" | "4643302" | "6119858" | "20090165358" | "7415794" | "1980104" | "20140165450" |	US-PGPUB;	OR	ON	2021/03/11 17:43

		"20150021871" | "3138891" | "4918853" | "5159777" | "5203815" | "20150021871" | "10375944" | "20070045973" | "20140068998" | "20150150231" | "2097185" | "0908903" | "20050235552" | "20130255132" | "2640622" | "3802113" | "2591674" | "20050034949" | "2650449" | "D451670" | "10149537" | "3399009" | "4858366" | "5319874" | "6467779" | "10624454" | "20110239525" | "20140175092" | "5340135" | "6283288").PN.	USPAT; USOCR			
S53	67	("3194426" | "3642337" | "4192562" | "4893719" | "5263576" | "5299688" | "5310071").PN. OR ("5890613").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 17:47
S54	20	(("0193339") or ("0505110") or ("0512496") or ("0841872") or ("0891110") or ("1565993") or ("1721558") or ("1965175") or ("2735608") or ("2860024")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/03/11 17:50
S55	29	("1084360").URPN.	USPAT	OR	ON	2021/03/11 17:52
S56	13	("3379482").URPN.	USPAT	OR	ON	2021/03/11 17:57
S57	8	("2017/0165828").URPN.	USPAT	OR	ON	2021/03/11 17:59
S58	8	("2019/0225371").URPN.	USPAT	OR	ON	2021/03/11 18:04
S59	7	("2011/0139777").URPN.	USPAT	OR	ON	2021/03/11 18:06
S60	15	("2005/0199522").URPN.	USPAT	OR	ON	2021/03/11 18:08
S61	8	("2018/0044059").URPN.	USPAT	OR	ON	2021/03/11 18:12
S62	33	("0299381" | "1281299" | "2758798" | "2776792" | "3182856" | "3339608" | "3533541" | "3599828" | "3642337" | "3650553" | "3842981" | "3982676" | "4408812" | "4566588" | "4681219" | "4711353").PN. OR ("4817809").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 18:15
S63	17	("20030005594" | "2271928" | "2345312" | "2963946" | "3537697" | "4817809" | "4968012" | "5107599" | "5244300" | "5481811" | "5829151" | "6298572" | "8621761").PN. OR ("10933501").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 18:15
S64	8	(("0287473") or ("0340567") or ("0664043") or ("1632243")).PN.	US-PGPUB;	OR	OFF	2021/03/11 18:17

			USPAT; USOCR			
S65	0	("2018/0079580").URPN.	USPAT	OR	ON	2021/03/11 22:04
S66	0	("2020/0243925").URPN.	USPAT	OR	ON	2021/03/11 22:25
S67	103	("3468081" | "3668832" | "3836217" | "4003172" | "4095769" | "4243279" | "4413867" | "4423913" | "4577914" | "4768298" | "4867513" | "5046789" | "5267863" | "D334704" | "D337653").PN. OR ("5775046").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 22:26
S68	61	("0511617" | "1890000" | "2492697" | "2557630" | "2807387" | "3203744" | "3283915" | "3514170" | "3743372" | "3758181" | "3918781" | "3999818" | "4026615" | "4056295" | "4120549").PN. OR ("4243279").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 22:29
S69	14	("3899229" | "4054344" | "4087145" | "4216857" | "4243279" | "D238401" | "D247794").PN. OR ("D285986").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 22:30
S70	53	("2593998" | "2653072" | "2730423" | "3131829" | "3219400" | "3514170" | "3552817" | "3563624" | "3743372" | "3814489").PN. OR ("3999818").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 22:31
S71	23	(US-20120074022-$ or US-20190225371-$ or US-20070090616-$ or US-20190002004-$ or US-20200029543-$ or US-20170165828-$ or US-20180200875-$ or US-20110139777-$ or US-20180044059-$ or US-20200243925-$).did. or (US-9850029-$ or US-10583962-$ or US-6637707-$ or US-5628443-$ or US-5890613-$ or US-D898320-$ or US-4817809-$ or US-10933501-$ or US-4243279-$ or US-D285986-$ or US-3999818-$ or US-8925752-$).did. or (US-1084360-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 23:22
S72	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 23:22

		US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-				

		0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-D816334-$ or US-D815831-$ or US-D814187-$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-				

		D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$ or US-7367571-$ or US-7263742-$ or US-D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$ or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or				

		US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.				
S73	11	S71 not S72	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 23:23
S74	1	("20200223585").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/03/11 23:37
S75	50	(US-0014949-$ | US-0031975-$ | US-0039831-$ | US-0069832-$ | US-0123478-$ | US-0139777-$ | US-0152944-$ | US-0224528-$ | US-0229889-$ | US-0346819-$ | US-10603783-$ | US-10703534-$ | US-10750833-$ | US-10793172-$ | US-10829269-$ | US-	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 02:23

		20100224528-$ | US-20110139777-$ | US-20120152944-$ | US-20140069832-$ | US-20140123478-$ | US-20150014949-$ | US-20180229889-$ | US-20200346819-$ | US-20210031975-$ | US-20210039831-$ | US-4122925-$ | US-4673070-$ | US-5325966-$ | US-5375709-$ | US-5429235-$ | US-5433416-$ | US-6082539-$ | US-6889838-$ | US-7219969-$ | US-7690856-$ | US-8602217-$ | US-8640913-$ | US-D285986-$ | US-D738622-$ | US-D753982-$).DID.				
S76	26	("1084360" | "20080121547" | "20100224528" | "20110139665" | "20110155613" | "20140062281" | "20150069962" | "20150274362" | "20170318927" | "3410376" | "3757911" | "3891230" | "4643494" | "5544751" | "5971119" | "6098819" | "6213266" | "6367631" | "6585090" | "8561769" | "8590704" | "8602217").PN. OR ("10750833").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 02:24
S77	31	("1084360").URPN.	USPAT	OR	ON	2021/07/18 02:25
S78	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 02:33

		US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-				

		0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-D816334-$ or US-D815831-$ or US-D814187-$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$ or US-7367571-$ or US-7263742-$ or US-				

		D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$ or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-				

		0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.				
S79	29	S78 and stand	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 02:34
S80	103	S78 and wheel$4	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 02:35
S81	1	"20060076261".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:02
S82	1	S75 and ko	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:03
S83	8	(US-20200029543-$).did. or (US-10933501-$ or US-D898320-$ or US-8925752-$ or US-D285986-$ or US-4243279-$ or US-3999818-$).did. or (US-1084360-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:03
S84	1	S83 and ko	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:04
S85	186	("10434638" | "20020000440" | "20020171228" | "20030115715" | "20030146589" | "20030184034" | "20030205877" | "20040103494" | "20040195793" | "20040206656" |	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:04

		"20050062244" | "20050104308" | "20050139745" | "20060006770" | "20060027475" | "20060038367" | "20060119060" | "20060186624" | "20060254946" | "20070068757" | "20070090616" | "20070145700" | "20070194543" | "20080104921" | "20080115312" | "20080121547" | "20080134607" | "20080169739" | "20080271280" | "20080277221" | "20080308369" | "20090026901" | "20090071990" | "20090145790" | "20090145866" | "20090145913" | "20090178946" | "20100052276" | "20100139566" | "20100147642" | "20100219193" | "20110073516" | "20110139665" | "20110155613" | "20110181008" | "20110220531" | "20120160886" | "20120180250" | "20120207571" | "20120326406" | "20130024468" | "20130031731" | "20130031732" | "20130121783" | "20130127129" | "20130154218" | "20130223971" | "20140076759" | "20140161518" | "20140166516" | "20150274362" | "20150376917" | "20160023349" | "20160130034" | "20160144500" | "20160168880" | "20170121056" | "20170138382" | "20170165828" | "20170166352" | "20170174392" | "20170217464" | "20170239808" | "20170257958" | "20170266804" | "20170318927" | "20170349013" | "20180044059" | "20180161975" | "20180220758" | "20180290288" | "20190002004" | "20190031222" | "20190039781" | "20190106244" | "20190225371" | "20200055534" | "2042387" | "2430200" | "2970358" | "3117692" | "3506321" | "3974898" | "4168076" | "5035445" | "5105947").PN. OR ("5240264" | "5301829" | "5429260" | "5595228" | "5608603" | "5628443" | "5797617" | "5951037" | "5988473" | "6050660" | "6085925" | "6109627" | "6176559" | "6347847" | "6367631" | "6371320" | "6431580" | "6547347" | "6601930" | "6619772" | "6637707" | "6641013" | "6945546" | "6948691" | "6983946" | "7044484" | "7066475" | "7147243" | "7263742" | "7367571" | "7503569" | "7658887" | "7779764" | "7780026" | "7841144" |			

		"8028845" | "8132819" | "8177463" | "8191910" | "8454033" | "8459495" | "8505729" | "8567796" | "8677661" | "8689396" | "8714355" | "8813960" | "8875888" | "8979100" | "8985922" | "9132543" | "9506489" | "9511491" | "9566990" | "9616562" | "9643629" | "9701443" | "9872562" | "D395533" | "D437669" | "D456972" | "D525789" | "D630851" | "D653832" | "D661858" | "D663952" | "D664354" | "D674605" | "D701696" | "D738106" | "D753394" | "D753395" | "D765974" | "D770179" | "D790221" | "D814187" | "D816334" | "D826510" | "D828671" | "D833744" | "D837515" | "D871013").PN. OR ("D898320").URPN.				
S86	16	("2017/0138382").URPN.	USPAT	OR	ON	2021/07/18 03:06
S87	109	("2708088" | "3878589" | "3915189" | "3931893" | "4450989" | "4461445" | "4858869" | "5026016" | "5035389" | "5078279" | "5344032" | "5356038" | "5433416" | "5435511" | "5452874" | "5765699" | "5915572" | "D329192" | "D386298" | "D386304").PN. OR ("6637707").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:11
S88	20	("1446036" | "3881677" | "5035389" | "5226625" | "5282554" | "5294012" | "5356105" | "6637707" | "6824114").PN. OR ("7837165").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:13
S89	93	("2732159" | "2887233" | "3294355" | "3622116" | "3840261" | "3878589" | "3915189" | "3928894" | "4176580" | "4858869" | "5026016" | "5086958" | "D329192").PN. OR ("5433416").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:23
S90	56	("1537678" | "20060165484" | "2028229" | "2116584" | "2735146" | "2863185" | "3336689" | "3552056" | "3798867" | "4275972" | "4407106" | "4570408" | "5090835" | "5433416" | "5704183" | "6017093" | "6036398" | "6186691" | "6227754" | "6341467" | "6357960" | "6578341" | "6874291" | "6991397" | "7331781" | "7398622" | "D384271").PN. OR ("8147162").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:25
S91	23	("2735146").URPN.	USPAT	OR	ON	2021/07/18 03:26
S92	45	("0594035" | "1356745" | "1787734" | "20030038222" | "2173159" | "2210235" |	US-PGPUB;	OR	ON	2021/07/18 03:27

		"2588009" | "3840261" | "3915189" | "4028858" | "4176580" | "4228982" | "4566243" | "4620736" | "5035389" | "5165213" | "5240213" | "5348778" | "5356038" | "5433416" | "5435511" | "5566917" | "5707033" | "5758988" | "5802798" | "6082687" | "6227514" | "6481679").PN. OR ("7007903").URPN.	USPAT; USOCR			
S93	99	("0626684" | "1077792" | "1720309" | "2239978" | "2610014" | "2975578" | "3021105" | "3452954" | "3491820" | "3525493" | "3927315" | "4018341" | "4246710" | "4319731" | "4539766" | "4557064" | "4713899" | "4718626" | "4995182" | "5086958" | "5109992" | "5109993" | "5275367" | "5346166" | "5415370" | "5485930" | "5678795" | "5683003" | "5702008" | "5722625" | "5871118" | "D294113" | "D316729").PN. OR ("6082687").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:28
S94	2	("594035").URPN.	USPAT	OR	ON	2021/07/18 03:31
S95	631	E04F15/10.cpc.	USPAT	OR	ON	2021/07/18 03:32
S96	378	E04F13/18.cpc.	USPAT	OR	ON	2021/07/18 03:32
S97	67	E04B1/00.cpc.	USPAT	OR	ON	2021/07/18 03:33
S98	378	("2430200").URPN.	USPAT	OR	ON	2021/07/18 19:00
S99	46	(US-20200029543-$ or US-20110139665-$ or US-20200055534-$ or US-20150376917-$ or US-20130031732-$ or US-20100147642-$ or US-20100052276-$ or US-20060076261-$ or US-20180220758-$ or US-20180044059-$ or US-20170138382-$ or US-20140161518-$ or US-20130223971-$ or US-20090145866-$ or US-20070090616-$ or US-20050139745-$).did. or (US-10933501-$ or US-D898320-$ or US-8925752-$ or US-D285986-$ or US-4243279-$ or US-3999818-$ or US-10750833-$ or US-11008136-$ or US-9132543-$ or US-6637707-$ or US-10890207-$ or US-7837165-$ or US-5356105-$ or US-5282554-$ or US-5226625-$ or US-5035389-$ or US-7172164-$ or US-5435511-$ or US-5433416-$ or US-4461445-$ or US-10472117-$ or US-8147162-$ or US-D905545-$ or US-7007903-$ or US-6481679-$ or US-6082687-$).did. or (US-	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 19:59

		3927315-$ or US-4620736-$).did. or (US-1084360-$ or US-0594035-$).did.				
S100	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 19:59

		20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-				

		D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-D816334-$ or US-D815831-$ or US-D814187-$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$ or US-7367571-$ or US-7263742-$ or US-D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$ or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-				

		4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.				

S101	29	S99 not S100	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 19:59
S102	9	("1084360" | "10933501" | "20200029543" | "3999818" | "4243279" | "8925752" | "D285986" | "D898320").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 20:00
S103	21	S101 not S102	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 20:00
S104	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 20:02

		US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-				

		0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-D816334-$ or US-D815831-$ or US-D814187-$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$ or US-7367571-$ or US-7263742-$ or US-D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$ or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-				

		D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-				

		0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.				
S105	5	S104 and gates	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 20:02
S106	71	(US-0001482-$ | US-0015928-$ | US-0025706-$ | US-0060953-$ | US-0094392-$ | US-0127007-$ | US-0151427-$ | US-0155373-$ | US-0176261-$ | US-0187725-$ | US-0213934-$ | US-0267368-$ | US-0310842-$ | US-1081378-$ | US-10222172-$ | US-10962218-$ | US-10981696-$ | US-11059631-$ | US-2124541-$ | US-2939613-$ | US-20030094392-$ | US-20050015928-$ | US-20080060953-$ | US-20100176261-$ | US-20150151427-$ | US-20150310842-$ | US-20180127007-$ | US-20180213934-$ | US-20190001482-$ | US-20210025706-$ | US-20210155373-$ | US-20210187725-$ | US-20210267368-$ | US-3423786-$ | US-3424334-$ | US-3935613-$ | US-4817237-$ | US-4929973-$ | US-5356038-$ | US-5356105-$ | US-5622296-$ | US-5664292-$ | US-5850996-$ | US-6098858-$ | US-6371424-$ | US-7077372-$ | US-7090085-$ | US-7152752-$ | US-8851282-$ | US-9551367-$ | US-9888752-$ | US-D917977-$ | US-D923935-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/30 23:08
S107	191	("10434638" | "10583962" | "20020000440" | "20020171228" | "20030115715" | "20030146589" | "20030184034" | "20030205877" | "20040103494" | "20040195793" | "20040206656" | "20050062244" | "20050104308" | "20050139745" | "20060006770" | "20060027475" | "20060038367" | "20060119060" | "20060186624" | "20060254946" | "20070068757" | "20070090616" | "20070145700" | "20070194543" | "20080104921" | "20080115312" | "20080121547" | "20080134607" | "20080169739" |	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/30 23:09

		"20080271280" | "20080277221" | "20080308369" | "20090026901" | "20090071990" | "20090145790" | "20090145866" | "20090145913" | "20090178946" | "20100052276" | "20100139566" | "20100147642" | "20100219193" | "20110073516" | "20110139665" | "20110155613" | "20110181008" | "20110220531" | "20120160886" | "20120180250" | "20120207571" | "20120326406" | "20130024468" | "20130031731" | "20130031732" | "20130121783" | "20130127129" | "20130154218" | "20130223971" | "20140076759" | "20140161518" | "20140166516" | "20150274362" | "20150376917" | "20160023349" | "20160130034" | "20160144500" | "20160168880" | "20170121056" | "20170138382" | "20170165828" | "20170166352" | "20170174392" | "20170217464" | "20170239808" | "20170257958" | "20170266804" | "20170318927" | "20170349013" | "20180044059" | "20180161975" | "20180220758" | "20180290288" | "20190002004" | "20190031222" | "20190039781" | "20190106244" | "20190225371" | "20200055534" | "2042387" | "2430200" | "2970358" | "3005282" | "3117692" | "3506321" | "3974898" | "4168076").PN. OR ("5035445" | "5105947" | "5240264" | "5301829" | "5429260" | "5595228" | "5608603" | "5628443" | "5797617" | "5951037" | "5988473" | "6050660" | "6085925" | "6109627" | "6176559" | "6347847" | "6367631" | "6371320" | "6431580" | "6547347" | "6601930" | "6619772" | "6637707" | "6641013" | "6945546" | "6948691" | "6983946" | "7044484" | "7066475" | "7147243" | "7263742" | "7367571" | "7503569" | "7658887" | "7779764" | "7780026" | "7841144" | "8028845" | "8132819" | "8177463" | "8191910" | "8454033" | "8459495" | "8505729" | "8567796" | "8677661" | "8689396" | "8714355" | "8813960" | "8875888" | "8979100" | "8985922" | "9132543" | "9506489" | "9511491" | "9566990" | "9616562" | "9643629" | "9701443" | "9725209" | "9872562" | "D395533" | "D437669" |				

		"D456972" | "D525789" | "D627967" | "D630851" | "D653832" | "D661858" | "D663952" | "D664354" | "D674605" | "D701696" | "D738106" | "D753394" | "D753395" | "D765974" | "D770179" | "D790221" | "D814187" | "D816334" | "D826510" | "D828671" | "D833744" | "D837515" | "D871013" | "D895967").PN. OR ("10981696").URPN.				
S108	12	(("0495537") or ("1081378") or ("2124541") or ("2939613") or ("3423786") or ("3424334")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/12/30 23:14
S109	4	(("4929973") or ("5325966") or ("5154291") or ("5375709")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/12/30 23:18
S110	26	("3182856" | "4293070" | "4404615" | "4427114" | "4553190" | "4557382" | "4561554" | "4886163" | "5107989" | "5180615" | "5244087").PN. OR ("5375709").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/30 23:18
S111	41	("3182856" | "3565146" | "4951812" | "4998616" | "5036980" | "5040681" | "5060851" | "5117979").PN. OR ("5325966").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/30 23:22
S112	26	("1038331" | "3047157" | "4216857" | "4272795" | "4413867" | "4722034" | "4976350" | "5038235").PN. OR ("5154291").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/30 23:23
S113	8	("3047157").URPN.	USPAT	OR	ON	2021/12/30 23:24
S114	78	("3356325" | "4525052").PN. OR ("4929973").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/30 23:25
S115	12	("10047906" | "10194544" | "10299528" | "10317173" | "3429543" | "4929973" | "5333023" | "9052574" | "9097490" | "9121544" | "9249923").PN. OR ("10711941").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/30 23:25
S116	1	"5325966".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 17:55
S117	41	("3182856" | "3565146" | "4951812" | "4998616" | "5036980" | "5040681" |	US-PGPUB;	OR	ON	2022/01/04 17:55

		"5060851" | "5117979").PN. OR ("5325966").URPN.	USPAT; USOCR			
S118	24	("1472536" | "2709318" | "2803088" | "2843971" | "3521764" | "3584757" | "4109789" | "4144968" | "4391348" | "5325966" | "5607057" | "5649638").PN. OR ("6015046").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 17:55
S119	33	("4619366" | "4936458" | "4960207" | "5325966" | "5332114" | "5544751").PN. OR ("5697500").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 17:56
S120	493	B25H3/023.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:33
S121	261	B65D21/02.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:33
S122	17	"5154291"	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:42
S123	2	(("5154291") or ("5375709")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/04 18:42
S124	26	("3182856" | "4293070" | "4404615" | "4427114" | "4553190" | "4557382" | "4561554" | "4886163" | "5107989" | "5180615" | "5244087").PN. OR ("5375709").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:43
S125	26	("1038331" | "3047157" | "4216857" | "4272795" | "4413867" | "4722034" | "4976350" | "5038235").PN. OR ("5154291").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:43
S126	35	("1733772" | "2499765" | "3899229").PN. OR ("4216857").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:44
S127	15	("4216857" | "4583640" | "4624383" | "5050755" | "5105962" | "5159156").PN. OR ("6371321").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:45
S128	10	("3760937" | "4216857" | "4741438" | "D220317" | "D238401").PN. OR ("D328972").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:46

S129	31	("1565993" | "2237176" | "2506844" | "2695723" | "2988412" | "3567298" | "3642337").PN. OR ("3760937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:47
S130	18	("3635350" | "3642337" | "3760937" | "3812960" | "3889817" | "3909088").PN. OR ("4098402").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:48
S131	7	("3567298").URPN.	USPAT	OR	ON	2022/01/04 18:49
S132	59	("3272325" | "3287075" | "3514170" | "3567298" | "3595433" | "3603478" | "3635350" | "3642337" | "3684124" | "3710900").PN. OR ("3904259").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:51
S133	16	("3552817" | "3904259" | "3974898" | "4269461" | "4285559" | "4410093" | "4436355" | "4570793" | "4577914" | "4728158" | "4900090" | "5666713").PN. OR ("6109707").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:58
S134	23	("2233480" | "3751127" | "3841725").PN. OR ("5666713").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:59
S135	1,723	312/111,199.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:01
S136	10	("2003/0038566").URPN.	USPAT	OR	ON	2022/01/04 19:04
S137	40	("2011962" | "3514170" | "3552817" | "3743372" | "3851936" | "3999818" | "4198777" | "4238032" | "4353470" | "4589546" | "4744612" | "4782619" | "4874210" | "4907703" | "5046789" | "5137340" | "5176435" | "5191983" | "5344024" | "5399004" | "5454634").PN. OR ("6050657").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:07
S138	18	("3131829" | "3429632" | "3552579" | "3707023" | "4062302" | "4239306" | "5246284").PN. OR ("5454634").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:08
S139	633	312/108.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:10
S140	109	("3468081" | "3668832" | "3836217" | "4003172" | "4095769" | "4243279" | "4413867" | "4423913" | "4577914" |	US-PGPUB;	OR	ON	2022/01/04 19:15

		"4768298" | "4867513" | "5046789" | "5267863" | "D334704" | "D337653").PN. OR ("5775046").URPN.	USPAT; USOCR			
S141	118	("0287923" | "1084597" | "1563306" | "20010025460" | "20020054787" | "20020122691" | "20030036314" | "20030044228" | "20040033103" | "20040102132" | "20040121699" | "20040168382" | "20050005556" | "20060104715" | "20060165482" | "20060278772" | "20070006542" | "20070209314" | "20080224470" | "20080280521" | "20080280523" | "20100005752" | "20100059094" | "20110101607" | "20110180350" | "20120299352" | "20140010587" | "20140260083" | "2132757" | "2472363" | "3086627" | "3342444" | "3608906" | "3778175" | "3836218" | "4021973" | "4094417" | "4160337" | "4258522" | "4388786" | "4455795" | "4543757" | "4564732" | "4577449" | "4621938" | "4652170" | "4671039" | "4688362" | "4845889" | "4896999" | "4907388" | "4934858" | "4939037" | "4951440" | "4974987" | "5000713" | "5042615" | "5048995" | "5238231" | "5267863" | "5413836" | "5498099" | "5499886" | "5580181" | "5680737" | "5775046" | "5791806" | "5799943" | "5802798" | "5868223" | "5915803" | "5984587" | "6059631" | "6179511" | "6185887" | "6237298" | "6250025" | "6447360" | "6886296" | "6996946" | "7185461" | "7198270" | "7530550" | "7621080" | "7694485" | "7779589" | "7833077" | "7942612" | "7980034" | "8082702" | "8187050" | "8282307" | "8523134" | "8671640" | "9200443" | "D261401" | "D545380" | "D545381" | "D545917" | "D545918" | "D545919").PN. OR ("10501929").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:15
S142	63	("0669591" | "1385606" | "1397976" | "1671279" | "2204675" | "2291712" | "2387659" | "2902853" | "3305982" | "3449875" | "3527005" | "3849960" | "4550543").PN. OR ("4688362").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:20
S143	56	("3286070" | "3589758" | "3599212" | "3751618" | "3851936" | "3900712" | "4019298" | "4095913" | "4224484" | "4267417").PN. OR ("4564732").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:21

S144	75	("0165500" | "0598689" | "2003746" | "2165255" | "2323123" | "2325155" | "2459873" | "2502275" | "2562518" | "2568131" | "2620801" | "2721417" | "3043047" | "3095665" | "3233611" | "3366359" | "3408032" | "3425421" | "3926398" | "4009599" | "4066168" | "4116413" | "4179091" | "4341166" | "4389133" | "4444418" | "4462317" | "4475365" | "4508306" | "4564732" | "4568052" | "4582442" | "4583877" | "4643384" | "4691541" | "4722627" | "4776552" | "4787595").PN. OR ("4925146").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:23
S145	25	("0438675" | "3608158" | "3777734" | "4156496" | "4564732").PN. OR ("4635611").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:25
S146	143	("0616131" | "0748036" | "0918699" | "1133513" | "1303090" | "1918116" | "1986465" | "2580174" | "2793407").PN. OR ("4019298").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:27
S147	5	("20070154257" | "20120128114" | "4019298" | "5244300" | "6343107").PN. OR ("9887017").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:27
S148	50	("0609703" | "0984823" | "1348707" | "3074203" | "3663055" | "4012155" | "4019298" | "4438800" | "4504168" | "4548590" | "4550230").PN. OR ("4900090").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:30
S149	22	("1303090").URPN.	USPAT	OR	ON	2022/01/04 19:32
S150	8	(("0593330") or ("1182610") or ("1265113") or ("2457002")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/04 19:33
S151	49	("2132757").URPN.	USPAT	OR	ON	2022/01/04 19:35
S152	33	("20060059738" | "20110014848" | "20110097964" | "20140227940" | "20150182868" | "2472363" | "2565823" | "2922253" | "3022594" | "3558138" | "3774908" | "3888030" | "4180932" | "4903424" | "4970810" | "4983890" | "5056249" | "5090936" | "5322717" | "5462471" | "5732493" | "5775046" | "6045430" | "6682392" | "6845579" | "7895779").PN. OR ("9661944").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:39

S153	19	("20040149754" | "20080116772" | "20090039742" | "20100127603" | "2023260" | "3316041" | "3552817" | "4043477" | "4998587" | "5271515" | "5350057" | "5470139" | "5775046" | "5924778" | "6735831").PN. OR ("8894160").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:41
S154	9	("2004/0149754").URPN.	USPAT	OR	ON	2022/01/04 19:44
S155	2	("1390374").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/04 19:49
S156	49	("1252816" | "1983307" | "3131829" | "3374917" | "3567302" | "3986756" | "3999818" | "4099626" | "4175807" | "4227758").PN. OR ("4423913").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:52
S157	56	("2593998" | "2653072" | "2730423" | "3131829" | "3219400" | "3514170" | "3552817" | "3563624" | "3743372" | "3814489").PN. OR ("3999818").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:53
S158	24	(("1386143") or ("2128341") or ("2128342") or ("2206084") or ("2375843") or ("2392630") or ("2410700") or ("2709634") or ("2726916") or ("2741419") or ("2757852") or ("2867019")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/04 20:04
S159	38	("2087863" | "2979370" | "3348668" | "3552817" | "3638788" | "3737067" | "3743372" | "3747745" | "3871516" | "3917067").PN. OR ("4026615").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 23:22
S160	14	(("1303985") or ("1698578") or ("1726121") or ("2268236") or ("2733112") or ("3000680") or ("3003839")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/04 23:27
S161	11	("2733112").URPN.	USPAT	OR	ON	2022/01/04 23:28
S162	6	(("1308647") or ("2203716") or ("2614016")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/04 23:33
S163	9	("2386343").URPN.	USPAT	OR	ON	2022/01/04 23:46
S164	2	("2169769").URPN.	USPAT	OR	ON	2022/01/04 23:52
S165	5	("2614016").URPN.	USPAT	OR	ON	2022/01/05 00:11
S166	8	(("1331862") or ("1686515") or ("2304020") or ("2386343")).PN.	US-PGPUB;	OR	OFF	2022/01/05 00:12

			USPAT; USOCR			
S167	8	(("1186634") or ("1862609") or ("2083114") or ("2121190")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/05 00:13
S168	12	(("1223641") or ("1242579") or ("1268870") or ("2237176") or ("2281959") or ("2321755")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/05 00:15
S169	27	("1084360" | "20080121547" | "20100224528" | "20110139665" | "20110155613" | "20140062281" | "20150069962" | "20150274362" | "20170318927" | "3410376" | "3757911" | "3891230" | "4643494" | "5544751" | "5971119" | "6098819" | "6213266" | "6367631" | "6585090" | "8561769" | "8590704" | "8602217").PN. OR ("10750833").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/05 00:22
S170	16	(("0512496") or ("1656868") or ("2563094") or ("2752215") or ("2988412") or ("3219400") or ("3401993") or ("3421801")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/05 00:25
S171	2	("2807387").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/05 11:45
S172	24	("2807387").URPN.	USPAT	OR	ON	2022/01/05 11:45
S173	111	"40".clas. and (shrink and bottle)	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/05 14:19
S174	82	(US-20060076261-$ or US-20030038566-$ or US-20050110371-$ or US-20080280523-$ or US-20070006542-$ or US-20060165482-$ or US-20040149754-$).did. or (US-11008136-$ or US-10750833-$ or US-7837165-$ or US-7172164-$ or US-6082687-$ or US-5433416-$ or US-9551367-$ or US-3935613-$ or US-1081378-$ or US-3424334-$ or US-7350648-$ or US-3182856-$ or US-3047157-$ or US-10711941-$ or US-3429543-$ or US-10364935-$ or US-9958667-$ or US-8448829-$ or US-5697500-$ or US-5375709-$ or US-5154291-$ or US-4216857-$ or US-6371321-$ or US-D328972-$ or US-D238401-$ or US-3760937-$).did. or (US-5918762-$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/07 20:50

		4098402-$ or US-3567298-$ or US-3904259-$ or US-6109707-$ or US-5666713-$ or US-6050657-$ or US-7410289-$ or US-5454634-$ or US-7100999-$ or US-7967401-$ or US-5775046-$ or US-10501929-$ or US-2902853-$ or US-4564732-$ or US-5720537-$ or US-5044594-$ or US-10485312-$ or US-4635611-$ or US-4019298-$ or US-9887017-$ or US-8123284-$ or US-4900090-$ or US-1303090-$ or US-3851936-$ or US-2132757-$ or US-2472363-$).did. or (US-9661944-$ or US-8894160-$ or US-10514519-$ or US-3552817-$ or US-5993283-$ or US-4423913-$ or US-4660725-$ or US-3999818-$ or US-5325975-$ or US-4003172-$ or US-3743372-$ or US-4026615-$ or US-3421801-$ or US-2386343-$ or US-3860147-$ or US-2304020-$ or US-2169769-$ or US-1602383-$ or US-0864761-$).did. or (US-2793407-$ or US-3506321-$ or US-2614016-$).did.				
S175	16	("10750833" | "20060076261" | "D898320" | "10933501" | "D285986" | "5433416" | "11008136" | "7837165" | "20200029543" | "4243279" | "1084360" | "3999818" | "8925752" | "6082687" | "7172164").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/07 20:57
S176	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/07 20:58

		(US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$				

		or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-D816334-$ or US-D815831-$ or US-D814187-$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$				

		or US-7367571-$ or US-7263742-$ or US-D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$ or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$				

		or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.				
S177	71	(US-0001482-$ | US-0015928-$ | US-0025706-$ | US-0060953-$ | US-0094392-$ | US-0127007-$ | US-0151427-$ | US-0155373-$ | US-0176261-$ | US-0187725-$ | US-0213934-$ | US-0267368-$ | US-0310842-$ | US-1081378-$ | US-10222172-$ | US-10962218-$ | US-10981696-$ | US-11059631-$ | US-2124541-$ | US-2939613-$ | US-20030094392-$ | US-20050015928-$ | US-20080060953-$ | US-20100176261-$ | US-20150151427-$ | US-20150310842-$ | US-20180127007-$ | US-20180213934-$ | US-20190001482-$ | US-20210025706-$ | US-20210155373-$ | US-20210187725-$ | US-20210267368-$ | US-3423786-$ | US-3424334-$ | US-3935613-$ | US-4817237-$ | US-4929973-$ | US-5356038-$ | US-5356105-$ | US-5622296-$ | US-5664292-$ | US-5850996-$ | US-6098858-$ | US-6371424-$ | US-7077372-$ | US-7090085-$ | US-7152752-$ | US-8851282-$ | US-9551367-$ | US-9888752-$ | US-D917977-$ | US-D923935-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/07 20:59
S178	66	S174 not (S175 S176 S177)	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/07 20:59
S179	1	"5454634".PN.	US-PGPUB;	OR	ON	2022/01/07 21:02

			USPAT; USOCR			
S180	12	(US-0073995-$ | US-0078929-$ | US-0104909-$ | US-11066089-$ | US-11283117-$ | US-20120073995-$ | US-20200078929-$ | US-20210104909-$ | US-D649783-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 20:29
S181	18	("10027188" | "10063096" | "20050156564" | "20120218027" | "20130048647" | "20140328659" | "20150077042" | "20150077043" | "20170259956" | "20180009588" | "20180231238" | "20180366697" | "3733836" | "8579113" | "9153978" | "9379561" | "9748794" | "9829953").PN. OR ("11283117").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 20:30
S182	46	(US-0030425-$ | US-0062042-$ | US-0075468-$ | US-0094600-$ | US-0158216-$ | US-0197059-$ | US-0213115-$ | US-0221561-$ | US-0273114-$ | US-0288970-$ | US-0316909-$ | US-11155382-$ | US-11230410-$ | US-20020030425-$ | US-20030075468-$ | US-20070273114-$ | US-20090288970-$ | US-20140062042-$ | US-20140197059-$ | US-20160213115-$ | US-20170158216-$ | US-20210094600-$ | US-20210221561-$ | US-20210316909-$ | US-5035389-$ | US-D437484-$ | US-D876833-$ | US-D897103-$ | US-D918584-$ | US-D919296-$ | US-D920671-$ | US-D932186-$ | US-D936030-$ | US-D941020-$ | US-RE47022-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 20:32
S183	1	"10406387".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 20:48
S184	1	"20130206139".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 20:48
S185	0	A652B9/04.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 20:49
S186	638	A62B9/04.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 20:49
S187	878	A62B7/10.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 20:49

S188	536	A62B18/006.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 20:49
S189	369	A62B25/00.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 20:49
S190	32	("3805929" | "3957183" | "4299313" | "4310110" | "4345789" | "4358006" | "4455718" | "4463978" | "4561526" | "4690314" | "4752263" | "5046894" | "5494377" | "5567084").PN. OR ("6409429").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 20:52
S191	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:07

		US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-				

		0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-D816334-$ or US-D815831-$ or US-D814187-$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$ or US-7367571-$ or US-7263742-$ or US-D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$ or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-				

		6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-				

		0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.				
S192	8	(US-20200029543-$).did. or (US-10933501-$ or US-D898320-$ or US-8925752-$ or US-D285986-$ or US-4243279-$ or US-3999818-$).did. or (US-1084360-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:07
S193	7	(US-20060076261-$).did. or (US-11008136-$ or US-10750833-$ or US-7837165-$ or US-7172164-$ or US-6082687-$ or US-5433416-$).did.	US-PGPUB; USPAT	OR	ON	2022/06/16 21:07
S194	15	(US-20080280523-$ or US-20070006542-$ or US-20060165482-$ or US-20040149754-$).did. or (US-8894160-$ or US-7350648-$ or US-6371321-$ or US-5454634-$ or US-5154291-$ or US-4660725-$ or US-4564732-$ or US-3851936-$ or US-3567298-$ or US-3552817-$ or US-2386343-$).did.	US-PGPUB; USPAT	OR	ON	2022/06/16 21:07
S195	82	(US-20060076261-$ or US-20030038566-$ or US-20050110371-$ or US-20080280523-$ or US-20070006542-$ or US-20060165482-$ or US-20040149754-$).did. or (US-11008136-$ or US-10750833-$ or US-7837165-$ or US-7172164-$ or US-6082687-$ or US-5433416-$ or US-9551367-$ or US-3935613-$ or US-1081378-$ or US-3424334-$ or US-7350648-$ or US-3182856-$ or US-3047157-$ or US-10711941-$ or US-3429543-$ or US-10364935-$ or US-9958667-$ or US-8448829-$ or US-5697500-$ or US-5375709-$ or US-5154291-$ or US-4216857-$ or US-6371321-$ or US-D328972-$ or US-D238401-$ or US-3760937-$).did. or (US-5918762-$ or US-4098402-$ or US-3567298-$ or US-3904259-$ or US-6109707-$ or US-5666713-$ or US-6050657-$ or US-7410289-$ or US-5454634-$ or US-7100999-$ or US-7967401-$ or US-5775046-$ or US-10501929-$ or US-2902853-$ or US-4564732-$ or US-5720537-$ or US-5044594-$ or US-10485312-$ or US-4635611-$ or US-4019298-$ or US-9887017-$ or US-8123284-$ or US-4900090-$ or US-1303090-$	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:07

		or US-3851936-$ or US-2132757-$ or US-2472363-$).did. or (US-9661944-$ or US-8894160-$ or US-10514519-$ or US-3552817-$ or US-5993283-$ or US-4423913-$ or US-4660725-$ or US-3999818-$ or US-5325975-$ or US-4003172-$ or US-3743372-$ or US-4026615-$ or US-3421801-$ or US-2386343-$ or US-3860147-$ or US-2304020-$ or US-2169769-$ or US-1602383-$ or US-0864761-$).did. or (US-2793407-$ or US-3506321-$ or US-2614016-$).did.				
S196	111	(S191 S192 S193 S194 S195) and wheel$3	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:08
S197	170	("0344661" | "0687619" | "1424819" | "20020014488" | "20020067027" | "20020074905" | "20020113386" | "20020185831" | "20030001348" | "20030146589" | "20040265104" | "20050062244" | "20050104308" | "20050258610" | "20050275178" | "20060006619" | "20060012139" | "20060038367" | "20070080512" | "20070194543" | "20070273114" | "20080084036" | "20080121547" | "20080128305" | "20080143069" | "20090020528" | "20090026901" | "20090309323" | "20100052276" | "20100290877" | "20100327562" | "20110049824" | "20110181008" | "20120160886" | "20120326406" | "20140001719" | "20140375181" | "2554091" | "2588830" | "2901262" | "2964328" | "3168329" | "3393951" | "3734526" | "3804432" | "3990653" | "4363496" | "4448434" | "4619363" | "4984704" | "5104135" | "5123666" | "5207723" | "5362078" | "5378005" | "5464104" | "5474312" | "5595395" | "5626352" | "5634649" | "5720535" | "5845915" | "5906381" | "5913527" | "5931483" | "5934466" | "5938396" | "6000713" | "6050660" | "6079719" | "6109627" | "6113129" | "6123344" | "6131926" | "6135466" | "6176559" | "6254112" | "6347847" | "6357063" | "6371320" | "6394471" | "6398235" | "6474930" | "6561528" | "6601930" | "6616152" | "6659476" | "6666465" | "6874634" | "6889838" | "6945546" | "7063339" | "7066475" | "7168715" | "7188847" |	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:10

		"7210689" | "7328905" | "7367571" | "7500681" | "7503569" | "7686260" | "7703776" | "7819407" | "7823893" | "7845653" | "7883096" | "7905502" | "7938412" | "8132819" | "8226092" | "8567796" | "8657307" | "D437484").PN. OR ("D542496" | "D640869" | "D653832" | "D654241").PN. OR ("9132543").URPN.				
S198	11	("2009/0309323").URPN.	USPAT	OR	ON	2022/06/16 21:11
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S201	93	("0845917" | "1424819" | "20040124598" | "20050110232" | "20080203688" | "2598489" | "2981374" | "3052323" | "3052484" | "3179270" | "3690488" | "3734526" | "3804432" | "3876039" | "3951286" | "4355818" | "4363496" | "4421209" | "4448434" | "4526399" | "4537421" | "5160154" | "5203815" | "5251922" | "5365860" | "5464104" | "5564346" | "5575605" | "5595395" | "5626352" | "5644993" | "5678842" | "5697624" | "5845915" | "5863055" | "5885047" | "6131926" | "6131927" | "6135466" | "6309168" | "6457727" | "6530740" | "6659476" | "6709222" | "6880851" | "6921095" | "6929269" | "6971654" | "7213816" | "7320472" | "D340339" | "D373669" | "D396923" | "D399625" | "D440372" | "D502304").PN. OR ("7823893").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:25
S202	44	("2320387" | "3052484" | "3179270" | "3734526" | "4281843" | "4363496" | "4790549" | "5464104" | "5465987" | "5474312" | "5595395" | "5671933").PN. OR ("6131926").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:27
S203	55	("1006985" | "2964328" | "3052323" | "3436093" | "3460850" | "4726602" | "5123666" | "5125675" | "5193842").PN. OR ("5465987").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:29

S204	737	"280".clas. and (scuba diver diving)	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:29
S205	1	("2006/0119058").URPN.	USPAT	OR	ON	2022/06/16 21:31
S206	6	("5433230" | "5074571" | "5492346" | "5207723" | "6520514" | "6341789").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:32
S207	81	("2439660" | "2893749" | "2905480" | "3351402" | "4026616" | "4124261" | "4544050" | "4784382" | "4848243" | "4865346" | "4890705" | "5207723" | "5306029" | "5379537" | "6199816" | "D383603").PN. OR ("6520514").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:33
S208	78	("0886530" | "1664431" | "2124071" | "2265618" | "2300405" | "2525208" | "2572486" | "2893749" | "2905480" | "3010775" | "3118685" | "3779623" | "3831799" | "3831805" | "3984023" | "4225202" | "4350257" | "4387940" | "4531645" | "4662515" | "D311622").PN. OR ("5207723").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:35
S209	29	("20030034636" | "20180168369" | "2564939" | "2868557" | "3092395" | "3241852" | "3279811" | "3285620" | "3292942" | "3427040" | "3462171" | "3659867" | "4460189" | "5125675" | "5465987" | "6547263" | "6955365" | "9566991").PN. OR ("10322735").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:47
S210	18	("20110120827" | "20120049474" | "3092395" | "3135527" | "3285620" | "4448434" | "5125675" | "5628523" | "5803264" | "6547263" | "6955365" | "7728671").PN. OR ("9566991").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:48
S211	10	("2012/0049474").URPN.	USPAT	OR	ON	2022/06/16 21:48
S212	1	"7757913".pn.	USPAT	OR	ON	2022/06/16 21:54
S213	1	"7757913".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:54
S214	225	A45F2005/026.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:54

S215	32	("1333075").URPN.	USPAT	OR	ON	2022/06/16 21:58
S216	19	("20060058070" | "4858798" | "6405910").PN. OR ("7757913").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 21:59
S217	12,800	F16M11/041,40,10.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:00
S218	5,487	F16M11/041,40.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:00
S219	4,970	F16M11/041.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:00
S220	9,897	F16M13/02.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:09
S221	471	F16B2/20.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:10
S222	53	("2592767" | "5778804" | "6564432" | "1951196" | "5738020" | "0396508" | "4220308" | "20080237434" | "4893777" | "5143331" | "5209445" | "6131361" | "0993818" | "4140414" | "4603829" | "4725029" | "6193198" | "6517276" | "2277738" | "20080107479" | "3986318" | "6010306" | "4266386" | "5592767" | "4106630" | "4783034" | "5013000" | "5420762" | "7299667" | "20040232298" | "3455528" | "3529860" | "0936527" | "20110204758" | "20110023364" | "3282519" | "7934607" | "5150415" | "4307865" | "4473316" | "3055462" | "3159368").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:14
S223	5	("1951196").URPN.	USPAT	OR	ON	2022/06/16 22:17
S224	445	F16B21/09.cpc.	USPAT	OR	ON	2022/06/16 22:21
S225	885	F16B21/09.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:22

S226	2	("2013/0071176").URPN.	USPAT	OR	ON	2022/06/16 22:26
S227	0	("2013/0058712").URPN.	USPAT	OR	ON	2022/06/16 22:27
S228	11	("6715185" | "7904994" | "20080286067" | "20110113598" | "2980478" | "6772484" | "2980478" | "20040083583" | "20110035909" | "5195793" | "6715185" | "7527553").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:28
S229	60	("3037596" | "4581793" | "5897278" | "6457217").PN. OR ("6715185").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:29
S230	37	("20050242247" | "20060239796" | "20070057124" | "20070126211" | "20100186197" | "20130119208" | "20140131528" | "3090826" | "4557455" | "5065562" | "5112013" | "5224244" | "5407160" | "5766218" | "5921510" | "6105908" | "6394695" | "6550723" | "6715185" | "7229052" | "7360744" | "7404548" | "7503528" | "7669807" | "7753320" | "7762503" | "7832693" | "7988105" | "8221042" | "8282047" | "8313064" | "8991774" | "9045094" | "D741691").PN. OR ("9970573").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:29
S231	53	("4186902" | "4272047" | "4708306" | "4735387" | "4766651").PN. OR ("5112013").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:31
S232	14	("20100194170" | "3854192" | "5221585" | "6135666" | "7044677" | "6135666" | "5083726" | "5944388" | "5921606" | "5871318" | "3854192" | "6131286" | "5221585" | "6131286" | "6241144" | "20100194170" | "6241144" | "8182183" | "7044677" | "7390063" | "5489172" | "7390063").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:34
S233	57	("2009/0140112").URPN.	USPAT	OR	ON	2022/06/16 22:37
S234	6,053	H01R13/627,6271,6272,6273,62787.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:39
S235	1,625	A63H33/062,08,084,086.cpc..cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:40

S236	20	("20030005594" | "2271928" | "2345312" | "2963946" | "3537697" | "4817809" | "4968012" | "5107599" | "5244300" | "5481811" | "5829151" | "6298572" | "8621761").PN. OR ("10933501").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:42
S237	20	("2339161" | "4134175" | "4154527" | "4344658" | "4804277" | "5131733" | "5457520" | "5511885" | "5538475" | "5632684" | "5636820" | "5651632" | "5716161" | "5810272" | "5852760" | "5857129" | "6024497" | "6058280").PN. OR ("6481915").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 22:56
S238	62	("3084407" | "3631994" | "4046295" | "4083481" | "4299344" | "4420078" | "4479596" | "4485946" | "4641370" | "4736877" | "4754528" | "4761823" | "4775083" | "4801059").PN. OR ("4858798").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 23:06
S239	280	("10106180" | "10434638" | "10583962" | "10750833" | "10793172" | "10829268" | "11008136" | "1112943" | "1488460" | "20020000440" | "20020125072" | "20020171228" | "20030094393" | "20030115715" | "20030146589" | "20030184034" | "20030205877" | "20040103494" | "20040195793" | "20040206656" | "20050062244" | "20050104308" | "20050139745" | "20060006770" | "20060027475" | "20060038367" | "20060113303" | "20060119060" | "20060186624" | "20060254946" | "20070068757" | "20070090616" | "20070145700" | "20070194543" | "20080104921" | "20080115312" | "20080121547" | "20080134607" | "20080169739" | "20080271280" | "20080277221" | "20080308369" | "20090026901" | "20090071990" | "20090145790" | "20090145866" | "20090145913" | "20090178946" | "20090236482" | "20100052276" | "20100139566" | "20100147642" | "20100219193" | "20110073516" | "20110139665" | "20110155613" | "20110174939" | "20110181008" | "20110220531" | "20120152800" | "20120160886" | "20120180250" | "20120207571" | "20120292213" | "20120326406" | "20130024468" | "20130031731" | "20130031732" | "20130068903" |	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 23:13

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S240	34	("2005/0104308").URPN.	USPAT	OR	ON	2022/06/16 23:16
S241	28	("2003/0184034").URPN.	USPAT	OR	ON	2022/06/16 23:17
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S243	9	("2004/0074725").URPN.	USPAT	OR	ON	2022/06/16 23:19
S244	50	("20020030425" | "20110049824" | "20110181008" | "6176559" | "6601930" | "D565269" | "D630851").PN. OR ("D653832").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 23:52
S245	20	("10106180" | "10227078" | "20100314978" | "20110049824" | "20110132853" | "20110192810" | "20120085714" | "20140375181" | "20150336710" | "20160046309" | "20170151972" | "20170217464" | "5588659" | "5645177" | "5740910" | "8157337" | "9132543" | "9566990" | "9643629" | "9737141").PN. OR ("10894314").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/16 23:53
S246	2	("10227078").URPN.	USPAT	OR	ON	2022/06/16 23:54
S247	9	("2386343").URPN.	USPAT	OR	ON	2022/06/17 00:13

S248	0	"13396858".an.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 01:07
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S251	3	((("Schwab") near3 ("Mark") near3 ("Jordan"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 02:45
S252	47	("20180222033" | "3308669" | "D435906" | "D494279" | "20130177937" | "20070125259" | "5086813" | "6578647" | "4423641" | "7272980" | "20100147087" | "20150216464" | "4927605" | "20110000919" | "20130045501" | "20160345762" | "6845676" | "3118561" | "3528375" | "3930413" | "10399752" | "3013431" | "4174632" | "20130078735" | "4127215" | "4574630" | "4941517" | "4805632" | "3779082" | "5197515" | "5237934" | "5660295" | "6030580" | "1429710" | "20130248531" | "20190120730" | "3776042" | "4785676" | "5199473" | "5269350" | "6715820" | "20030200822").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 02:47
S253	3	("2010/0147087").URPN.	USPAT	OR	ON	2022/06/17 02:48
S254	52	("10399752" | "1429710" | "20020185497" | "20030200822" | "20070125259" | "20100147087" | "20110000919" | "20130045501" | "20130078735" | "20130177937" | "20130248531" | "20150216464" | "20150307013" | "20160345762" | "20170253168" |	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 02:48

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S255	18	("3776042" | "3779082" | "3985016" | "4056981").PN. OR ("4785676").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 02:59
S256	42	("3559703").PN. OR ("3776042").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 03:00
S257	1	"20210114784".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 03:05
S258	77	(US-20210039831-$ or US-20210031975-$ or US-20190225374-$ or US-20190225371-$ or US-20170121056-$ or US-20120152800-$ or US-20110139665-$ or US-20180000234-$ or US-20050139745-$ or US-20060096009-$ or US-20140166677-$ or US-20090106942-$ or US-20040194333-$ or US-20070045505-$).did. or (US-10829268-$ or US-D898320-$ or US-10793172-$ or US-7083061-$ or US-7152752-$ or US-5628443-$ or US-4693345-$ or US-4684034-$ or US-4673070-$ or US-4643494-$ or US-D285986-$ or US-4577772-$ or US-4491231-$ or US-3186585-$ or US-1488460-$ or US-1112943-$ or US-11008136-$ or US-D917977-$ or US-7690856-$ or US-7490800-$ or US-6520463-$ or US-5433416-$ or US-5035389-$ or US-11129359-$ or US-10406387-$ or US-7757913-$).did. or (US-6405910-$ or US-4083481-$ or US-7448115-$ or US-6726075-$ or US-2965939-$ or US-5226625-$ or US-8833596-$ or US-7837165-$ or US-11034485-$ or US-1617213-$ or US-5356105-$ or US-10017134-$ or US-1432349-$ or US-8448829-$ or US-0846022-$ or US-6751810-$ or US-9121544-$ or US-1922345-$ or US-1079411-$ or US-4132380-$ or US-2897928-$ or US-5332183-$ or US-6036071-$	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 05:44

		or US-5050793-$ or US-8292244-$).did. or (US-2558126-$).did.				
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S260	15	("2004/0256529").URPN.	USPAT	OR	ON	2022/06/17 05:51
S261	19	("20060058070" | "4858798" | "6405910").PN. OR ("7757913").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 05:52
S262	62	("3084407" | "3631994" | "4046295" | "4083481" | "4299344" | "4420078" | "4479596" | "4485946" | "4641370" | "4736877" | "4754528" | "4761823" | "4775083" | "4801059").PN. OR ("4858798").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 05:54
S263	3	("2007/0045505").URPN.	USPAT	OR	ON	2022/06/17 06:04
S264	9	("4858878" | "4878645" | "6740851" | "5209445" | "6806425" | "6941469" | "5738020" | "6123314" | "6347439").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 06:05
S265	42	("0292066" | "0926230" | "1828088" | "2402682" | "3180473" | "3356429" | "3850392" | "4268099" | "4289242" | "4535863" | "4634009").PN. OR ("4858878").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 06:05
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S268	27	("2005/0139745").URPN.	USPAT	OR	ON	2022/06/17 06:10
S269	1	"7757913".pn.	USPAT	OR	ON	2022/06/17 06:12
S270	19	("20060058070" | "4858798" | "6405910").PN. OR ("7757913").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 06:13

S271	19	("20060058070" | "4858798" | "6405910").PN. OR ("7757913").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 06:14
S272	41	("1079411" | "20020134809" | "20020185509" | "20030042284" | "20030070211" | "20060058070" | "20090120980" | "20090277936" | "20090314295" | "20100200624" | "20100294822" | "20100310823" | "20110126713" | "4389635" | "4534063" | "4673070" | "4899740" | "5035389" | "5152443" | "5226625" | "5267557" | "5697538" | "5762243" | "5833095" | "5996184" | "6038747" | "6206257" | "6401715" | "6405910" | "6405911" | "6508390" | "7448115" | "7454800" | "7658190" | "7726312" | "7757913" | "7819120" | "7900278" | "D646379").PN. OR ("10406387").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 06:15
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S275	30	("2965939").URPN.	USPAT	OR	ON	2022/06/17 06:18
S276	193	24/598.4.ccls.	USPAT	OR	ON	2022/06/17 06:21
S277	1	"7007903".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 06:33
S278	47	("0594035" | "1356745" | "1787734" | "20030038222" | "2173159" | "2210235" | "2588009" | "3840261" | "3915189" | "4028858" | "4176580" | "4228982" | "4566243" | "4620736" | "5035389" | "5165213" | "5240213" | "5348778" | "5356038" | "5433416" | "5435511" | "5566917" | "5707033" | "5758988" | "5802798" | "6082687" | "6227514" | "6481679").PN. OR ("7007903").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 06:33

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S281	46	("2003/0038222").URPN.	USPAT	OR	ON	2022/06/17 06:42
S282	607	248/220.1,224.51.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 06:47
S283	15	("3622116" | "4340199" | "4701586" | "5035389" | "5226625" | "5356105" | "5425524").PN. OR ("6098941").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 07:02
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S285	37	("0859013" | "2032636" | "2588009" | "2723815" | "3298655" | "3394712").PN. OR ("3622116").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 07:07
S286	14	(("0606208") or ("1339703") or ("1883834") or ("1908147") or ("1966505") or ("2248410") or ("2271928")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/06/17 07:09
S287	7	("2271928").URPN.	USPAT	OR	ON	2022/06/17 07:11
S288	40	("0919896" | "1196617" | "1758404" | "1845693" | "1983060" | "2103106" | "2271928" | "2336385" | "2688688" | "2695658" | "2841353" | "3016980" | "3088092" | "3175341" | "3483670" | "3501898").PN. OR ("3835623").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 07:12
S289	19	("2103106").URPN.	USPAT	OR	ON	2022/06/17 07:13

S290	54	("1794700" | "2103106" | "3131251" | "3928894" | "4401222" | "5000411" | "5709057" | "5803414").PN. OR ("6497395").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/06/17 07:15
S291	23	("1794700").URPN.	USPAT	OR	ON	2022/06/17 07:16

6/18/2022 1:12:48 AM
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: May 27, 2022

(use as many sheets as necessary)

Sheet | 1 | of | 1

Complete if Known	
Application Number	17/132,609
Filing Date	December 23, 2020
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	WEINERTH, GIDEON R
Attorney Docket Number	066749-2863

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.R.W/	A1	11,066,089	07-20-2021	Brunner	
/G.R.W/	A2	11,283,117	03-22-2022	Polakowski et al.	
/G.R.W/	A3	2012/0073995	03-29-2012	Parker	
/G.R.W/	A4	2020/0078929	03-12-2020	Liu	
/G.R.W/	A5	2021/0104909	04-08-2021	Mantych	
/G.R.W/	A6	D649,783	12-06-2011	Brunner	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Application Document Serial Number-Kind Code[2] (*if known*)	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	06/16/2022

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: April 7, 2022

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Sheet 1 of 2

Complete if Known	
Application Number	17/132,609
Filing Date	December 23, 2020
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	WEINERTH, GIDEON R
Attorney Docket Number	066749-2863

U.S. PATENT DOCUMENTS

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	A1	5,035,389	07-30-1991	Wang	
	A2	11,155,382	10-26-2021	Cai	
	A3	11,230,410	01-25-2022	Brunner	
	A4	2002/0030425	03-14-2002	Tiramani et al.	
	A5	2003/0075468	04-24-2003	Story et al.	
	A6	2007/0273114	11-29-2007	Katz	
	A7	2009/0288970	11-26-2009	Katz et al.	
	A8	2014/0062042	03-06-2014	Wagner et al.	
	A9	2014/0197059	07-17-2014	Evans et al.	
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	A11	2017/0158216	06-08-2017	Yahav et al.	
	A12	2021/0094600	04-01-2021	Brunner et al.	
	A13	2021/0221561	07-22-2021	Davidian et al.	
	A14	2021/0316909	10-14-2021	Vargo et al.	
	A15	D437,484	02-13-2001	Tiramani et al.	
	A16	D876,833	03-03-2020	Brunner et al.	
	A17	D897,103	09-29-2020	Brunner et al.	
	A18	D918,584	05-11-2021	Brunner et al.	
	A19	D919,296	05-18-2021	Brunner et al.	
	A20	D920,671	06-01-2021	Brunner et al.	
	A21	D932,186	10-05-2021	Brunner et al.	
	A22	D936,030	11-16-2021	Lee et al.	
	A23	D941,020	01-18-2022	Brunner et al.	
	A24	RE47,022	09-04-2018	Sosnovsky et al.	

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Substitute for form 1449/PTO				***Complete if Known***	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				**Application Number**	17/132,609
				Filing Date	December 23, 2020
Date Submitted: April 7, 2022				**First Named Inventor**	Yaron Brunner
				Art Unit	3736
(use as many sheets as necessary)				Examiner Name	WEINERTH, GIDEON R
Sheet	2	of	2	Attorney Docket Number	066749-2863

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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	06/16/2022

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				**Application Number**	17/132,609
				Filing Date	December 23, 2020
Date Submitted: May 27, 2022				**First Named Inventor**	Yaron Brunner
				Art Unit	3736
(use as many sheets as necessary)				Examiner Name	WEINERTH, GIDEON R
Sheet	1	of	1	Attorney Docket Number	066749-2863

U.S. PATENT DOCUMENTS

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	A2	11,283,117	03-22-2022	Polakowski et al.	
	A3	2012/0073995	03-29-2012	Parker	
	A4	2020/0078929	03-12-2020	Liu	
	A5	2021/0104909	04-08-2021	Mantych	
	A6	D649,783	12-06-2011	Brunner	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Application Document Serial Number-Kind Code[2] (*if known*)	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	45819728
Application Number:	17132609
International Application Number:	
Confirmation Number:	8591
Title of Invention:	Utility Assembly and Coupling Mechanism
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	142078
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2863
Receipt Date:	27-MAY-2022
Filing Date:	23-DEC-2020
Time Stamp:	13:12:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	066749-2863-IDS_Transmittal.pdf	86870 80729610c0d2be3c76323e28a7913ab154fce756	no	2
Warnings:					

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	066749-2863-SB08.pdf	110162 07c8a6135a960a088214125 8e8b23cbf1c283ea0	no	1
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
			Total Files Size (in bytes):	197032	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Atty. Dkt. No. 066749-2863

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Milwaukee Electric Tool Corporation et al.
Title:	Utility Assembly and Coupling Mechanism
Appl. No.:	17/132,609
Filing Date:	December 23, 2020
Examiner:	WEINERTH, GIDEON R.
Art Unit:	3736
Confirmation Number:	8591

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Submitted herewith on Form PTO/SB/08 is a listing of the documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR § 1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 897
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b)(4), before the mailing of a first Office action after the filing of a Request for Continued Examination under §1.114.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 18-0882.

Respectfully submitted,

Date May 27, 2022

By /Derek H. Campbell/

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
Telephone: (414) 298-8374
Facsimile: (414) 298-8097

Derek H. Campbell
Attorney for Applicant
Registration No. 70,608

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 898
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

PTO/SB/08 (09-06)
Approved for use through 03/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: April 7, 2022

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	17/132,609
Filing Date	December 23, 2020
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	WEINERTH, GIDEON R
Attorney Docket Number	066749-2863

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	5,035,389	07-30-1991	Wang	
	A2	11,155,382	10-26-2021	Cai	
	A3	11,230,410	01-25-2022	Brunner	
	A4	2002/0030425	03-14-2002	Tiramani et al.	
	A5	2003/0075468	04-24-2003	Story et al.	
	A6	2007/0273114	11-29-2007	Katz	
	A7	2009/0288970	11-26-2009	Katz et al.	
	A8	2014/0062042	03-06-2014	Wagner et al.	
	A9	2014/0197059	07-17-2014	Evans et al.	
	A10	2016/0213115	07-28-2016	Gonitianer et al.	
	A11	2017/0158216	06-08-2017	Yahav et al.	
	A12	2021/0094600	04-01-2021	Brunner et al.	
	A13	2021/0221561	07-22-2021	Davidian et al.	
	A14	2021/0316909	10-14-2021	Vargo et al.	
	A15	D437,484	02-13-2001	Tiramani et al.	
	A16	D876,833	03-03-2020	Brunner et al.	
	A17	D897,103	09-29-2020	Brunner et al.	
	A18	D918,584	05-11-2021	Brunner et al.	
	A19	D919,296	05-18-2021	Brunner et al.	
	A20	D920,671	06-01-2021	Brunner et al.	
	A21	D932,186	10-05-2021	Brunner et al.	
	A22	D936,030	11-16-2021	Lee et al.	
	A23	D941,020	01-18-2022	Brunner et al.	
	A24	RE47,022	09-04-2018	Sosnovsky et al.	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Application Document: Serial Number-Kind Code[2] (*if known*)	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08 (09-06)
Approved for use through 03/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: April 7, 2022

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known	
Application Number	17/132,609
Filing Date	December 23, 2020
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	WEINERTH, GIDEON R
Attorney Docket Number	066749-2863

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Electronic Acknowledgement Receipt	
EFS ID:	45418159
Application Number:	17132609
International Application Number:	
Confirmation Number:	8591
Title of Invention:	Utility Assembly and Coupling Mechanism
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	142078
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2863
Receipt Date:	07-APR-2022
Filing Date:	23-DEC-2020
Time Stamp:	17:00:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	066749-2863-IDS_Transmittal.pdf	86900 d54ca09d78ce4616cae3c3c3993841de4ca67134	no	2
Warnings:					

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	066749-2863-SB08.pdf	122489 baf3439550c511726af558bb39ef0ef87dd87bc8	no	2
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
			Total Files Size (in bytes):	209389	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Milwaukee Electric Tool Corporation et al.
Title:	Utility Assembly and Coupling Mechanism
Appl. No.:	17/132,609
Filing Date:	December 23, 2020
Examiner:	WEINERTH, GIDEON R
Art Unit:	3736
Confirmation Number:	8591

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Submitted herewith on Form PTO/SB/08 is a listing of the documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR § 1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 903
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b)(4), before the mailing of a first Office action after the filing of a Request for Continued Examination under §1.114.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 18-0882.

Respectfully submitted,

Date April 7, 2022

By /Derek H. Campbell/

Reinhart Boerner Van Deuren s.c.
Customer Number: 142078
Telephone: (414) 298-8374
Facsimile: (414) 298-8097

Derek H. Campbell
Attorney for Applicant
Registration No. 70,608

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 904
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	17132609	Filing Date	2020-12-23	Docket Number (if applicable)	066749-2863	Art Unit	3736
First Named Inventor	Yaron Brunner			Examiner Name	WEINERTH, GIDEON R		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☒ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

☒ Other Final Office Action Response filed on March 11, 2022

☐ Enclosed

☐ Amendment/Reply

☐ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 180882

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Derek H. Campbell/	Date (YYYY-MM-DD)	2022-04-06
Name	Derek H. Campbell	Registration Number	70608

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal					
Application Number:	17132609				
Filing Date:	23-Dec-2020				
Title of Invention:	Utility Assembly and Coupling Mechanism				
First Named Inventor/Applicant Name:	Yaron Brunner				
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee				
Attorney Docket Number:	066749-2863				
Filed as Large Entity					
Filing Fees for Utility under 35 USC 111(a)					
Description		**Fee Code**	**Quantity**	**Amount**	**Sub-Total in USD($)**
Basic Filing:					
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					
Extension-of-Time:					

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 1ST REQUEST	1801	1	1360	1360
		Total in USD ($)		**1360**

Electronic Acknowledgement Receipt	
EFS ID:	45410627
Application Number:	17132609
International Application Number:	
Confirmation Number:	8591
Title of Invention:	Utility Assembly and Coupling Mechanism
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	142078
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2863
Receipt Date:	06-APR-2022
Filing Date:	23-DEC-2020
Time Stamp:	16:53:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1360
RAM confirmation Number	E202246G53532831
Deposit Account	180882
Authorized User	Sarah Sesterhenn-Lee
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	066749-2863_RCE.pdf	81873 e9ef8d38b62871f4599c53170e4823b57db8bf71	no	3
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	38018 3491cc7848a9f04db4310c341981198500e92b21	no	2
Warnings:					
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		Total Files Size (in bytes):	119891		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/132,609	12/23/2020	Yaron Brunner	066749-2863	8591

142078 7590 03/28/2022

Reinhart (Milwaukee Tool)
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1000 NORTH WATER STREET
SUITE 2100
MILWAUKEE, WI 53202

EXAMINER	
WEINERTH, GIDEON R	

ART UNIT	PAPER NUMBER
3736	

NOTIFICATION DATE	DELIVERY MODE
03/28/2022	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPAdmin@reinhartlaw.com

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 17/132,609	**Applicant(s)** Brunner et al.	
	Examiner GIDEON R WEINERTH	**Art Unit** 3736	**AIA (FITF) Status** Yes

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 11 March 2022 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☑ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   a) ☑ The period for reply expires 3 months from the mailing date of the final rejection.
   b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
   c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection.The current period for reply expires ____ months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.
   Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANTS FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37CFR 41.37(a).

AMENDMENTS

3. ☑ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☑ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☑ They raise the issue of new matter (see NOTE below);
   c) ☑ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.
   NOTE: Please see Item 12 below (See 37 CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☑ For purposes of appeal, the proposed amendment(s):(a) ☑ will not be entered, or (b) ☐ will be entered, and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____
9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☑ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
14. ☐ Other: _____.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:
    Claim(s) allowed:_____.
    Claim(s) objected to:_____.
    Claim(s) rejected:21-37.
    Claim(s) withdrawn from consideration:_____.

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 913
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Continuation of REQUEST FOR RECONSIDERATION/OTHER 12. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: The 112 issues relating to first, second, third, fourth, and fifth ribs, directions, and relation to the axises are not addressed by Applicant's remarks. Such responses are NOT part of the disclosure. The SPECIFICATION AND DRAWINGS MUST BE AMENDED to CLEARLY identify the embodiments, components and configurations claimed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Milwaukee Electric Tool Corporation et al.
Title:	Utility Assembly and Coupling Mechanism
Appl. No.:	17/132,609
Filing Date:	December 23, 2020
Examiner:	WEINERTH, GIDEON R.
Art Unit:	3736
Confirmation No:	8591

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.116

This communication is responsive to the Final Office Action dated January 12, 2022, concerning the above-referenced patent application.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this document.

Remarks begin on page 7 of this document.

Please amend the application as follows:

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 915
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-20. (Cancelled)

21. (Currently Amended) A utility module assembly comprising:

a first utility module comprising:

a front face; and

a plurality of female couplers comprising a front row of at least two female couplers aligned with each other in a direction parallel to the front face of the first utility module and a rear row of at least two female couplers aligned with each other in the direction parallel to the front face of the first utility module, each of the female couplers comprising a first rib extending in a first direction extending above and parallel to ~~offset from~~ an upper face of the first utility module; and

a second utility module comprising:

a front face; and

a plurality of male couplers comprising a front row of at least two male couplers aligned with each other in a direction parallel to the front face of the second utility module and a rear row of at least two male couplers aligned with each other in the direction parallel to the front face of the second utility module, each of the male couplers extending from a bottom face of the second utility module, each of the male couplers comprising a first tongue extending above and parallel to ~~offset from~~ the bottom face of the second utility module, the first tongue configured for arresting engagement between one of the first ribs and the upper face of the first utility module.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 916
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

22. (Previously Presented) The utility module assembly of claim 21, wherein a first female coupler of the female couplers and a first male coupler of the male couplers engage when the first and second utility modules are slid along a sliding path defined by the first rib of the first female coupler and the first tongue of the first male coupler.

23. (Previously Presented) The utility module assembly of claim 22, each of the female couplers comprising a second rib extending in a second direction opposite the first direction.

24. (Currently Amended) The utility module assembly of claim 23, each of the male couplers comprising a second tongue extending above and parallel to the bottom face of the second utility module, the first tongue extending in a third direction and the second tongue extending in a fourth direction opposite the third direction, the second tongue configured for arresting engagement between one of the second ribs and the first utility module.

25. (Currently Amended) The utility module assembly of claim 21, each of the male couplers comprising a second tongue extending above and parallel to the bottom face of the second utility module, the first tongue extending in a third direction and the second tongue extending in a fourth direction opposite the third direction.

26. (Previously Presented) The utility module assembly of claim 24, the plurality of male couplers comprising a first male coupler and a second male coupler adjacent the first male coupler, the first tongue of the first male coupler extending towards the second tongue of the second male coupler.

27. (Cancelled)

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 917
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

28. (Currently Amended) A coupling platform for a connectable utility module comprising:

a body extending longitudinally in a first direction;

a first rib extending away from the body along a first axis in a second direction perpendicular to the first direction, the first rib configured to arrestingly engage between a first face of a utility module and a first male coupler extending from the first face of the utility module, the first male coupler comprising a first tongue extending above and parallel to ~~offset from~~ the first face of the utility module; [[and]]

a second rib extending away from the body along the first axis in a third direction opposite the second direction and perpendicular to the first direction, the second rib configured to arrestingly engage between the first face of the utility module and a second male coupler extending from the first face of the utility module, the second male coupler comprising a second tongue extending above and parallel to ~~offset from~~ the first face of the utility module;

a third rib extending away from the body along a second axis in a fourth direction parallel to the second direction, the third rib configured to arrestingly engage between the first face of the utility module and a third male coupler extending from the first face of the utility module, the first male coupler comprising a third tongue extending above and parallel to the first face of the utility module, the third male coupler distinct from the first male coupler; and

a fourth rib extending away from the body along the second axis in a fifth direction opposite the fourth direction, the fourth rib configured to arrestingly engage between the first face of the utility module and a fourth male coupler extending from the first face of the utility module, the fourth male coupler comprising a fourth tongue extending above and parallel to the first face of the utility module, the fourth male coupler distinct from the second male coupler.

29. (Previously Presented) The coupling platform of claim 28, the body extending from a work stand coupled to a wheeled base.

30. (Cancelled)

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 918
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

31. (Currently Amended) A coupler for a connectable utility module comprising:

a body;

a first rib extending away from the body along a first axis in a first direction, the first rib configured to arrestingly engage between a first face of a utility module and a first male coupler extending from the first face of the utility module, the first male coupler comprising a first tongue extending above offset from the first face of the utility module;

a second rib extending away from the body along the first axis in a second direction opposite the first direction, the second rib configured to arrestingly engage between the first face of the utility module and a second male coupler extending from the first face of the utility module, the second male coupler comprising a second tongue extending above offset from the first face of the utility module; [[and]]

a third rib extending away from the body along a second axis in a fourth direction parallel to the second direction, the third rib configured to arrestingly engage between the first face of the utility module and a third male coupler extending from the first face of the utility module, the first male coupler comprising a third tongue extending above and parallel to the first face of the utility module, the third male coupler distinct from the first male coupler; and

a fourth rib extending away from the body along the second axis in a fifth direction opposite the fourth direction, the fourth rib configured to arrestingly engage between the first face of the utility module and a fourth male coupler extending from the first face of the utility module, the fourth male coupler comprising a fourth tongue extending above and parallel to the first face of the utility module, the fourth male coupler distinct from the second male coupler; and

a latch recess in the body configured to receive a latch in a locked position in which the latch prevents disengagement of the body from the utility module when the first tongue and the first rib are engaged and the second tongue and the second rib are engaged.

32. (Previously Presented) The coupler of claim 31, wherein the first rib is offset from a first recess and the second rib is offset from a second recess.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 919
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

33. (Previously Presented) The coupler of claim 31, wherein the latch recess is an elongate recess defining a major axis and a minor axis, wherein the major axis of the latch recess is parallel to the first direction and the second direction.

34. (Previously Presented) The utility module assembly of claim 21,

the second utility module comprising a latch that actuates between a locked position and an unlocked position; and

the first utility module comprising a latch recess configured to receive the latch, in which the latch prevents disengagement of the first utility module from the second utility module when the latch is in the locked position and one or more of the male couplers are engaged with one or more of the female couplers.

35. (Previously Presented) The coupling platform of claim 28, wherein the second male coupler is distinct from the first male coupler.

36. (Currently Amended) The coupling platform of claim 28~~ claim 30~~, wherein the fourth male coupler is distinct from the third male coupler.

37. (Previously Presented) The coupler of claim 31, wherein the second male coupler is distinct from the first male coupler.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 920
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

REMARKS

This reply is intended to be completely responsive to the Final Office Action dated January 12, 2022.

Status

Claims 21-37 are pending in this application. Claims 21-37 were rejected.

Upon entry of this amendment, claims 21, 24, 25, 28, 31 and 36 will be amended, and claims 27 and 30 will be cancelled. No claims have been added.

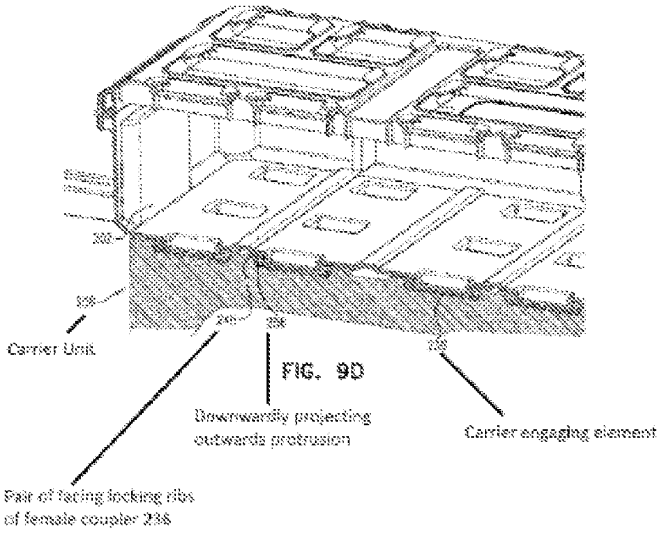
Applicant believes that each of the rejections raised by the Examiner has been addressed and the application is in condition for allowance. Reconsideration and allowance of the application is respectfully requested.

Drawing Objections

On pages 2-3 of the Office Action, the Examiner objected to the drawings with respect to claims 24-26. In particular, the Examiner objected to the phrase "the first tongue extending in a third direction and the second tongue extending in a fourth direction opposite the third direction," which is recited in claims 24 and 25. Office Action, pages 2-3. Claim 26 depends from claim 24.

For reference, the Examiner provided an annotated copy of FIG. 9D in which protrusion 258 is identified. The annotated copy of FIG. 9D is copied below.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 921
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400



Office Action, page 3 (citing to Subject application, FIG. 9D) (Annotated).

Applicant thanks the Examiner for providing that annotation of FIG. 9D so Applicant can visualize the Examiner's interpretation. Notwithstanding the annotation of FIG. 9D, Applicant respectfully submits that the figures generally and FIG. 8B in particular depict an exemplary and non-limiting embodiment of the two tongues recited in claims 24-25. For reference, FIG. 8B is copied and annotated below.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 922
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

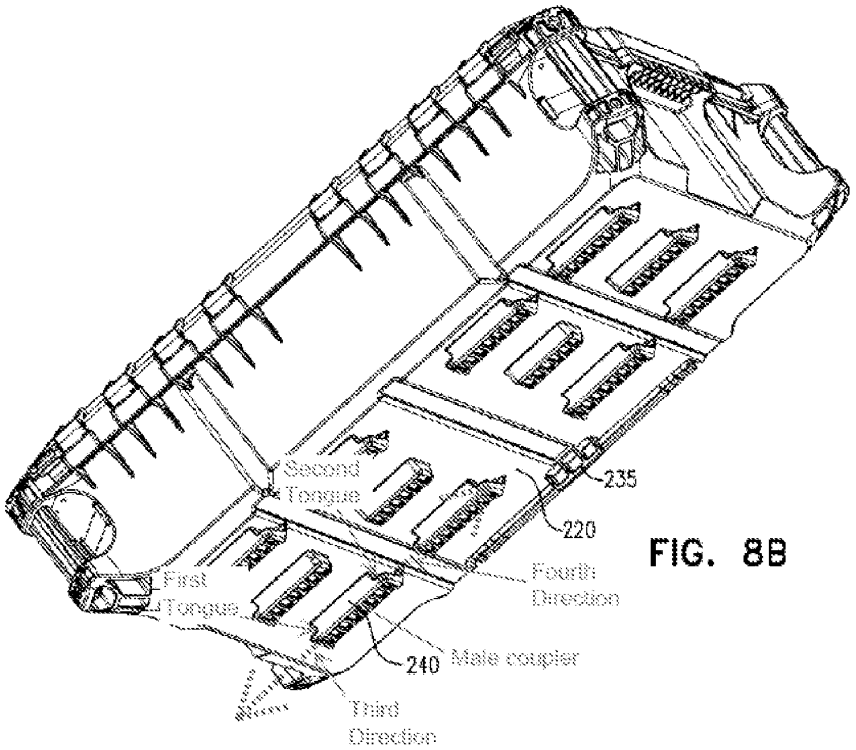


FIG. 8B

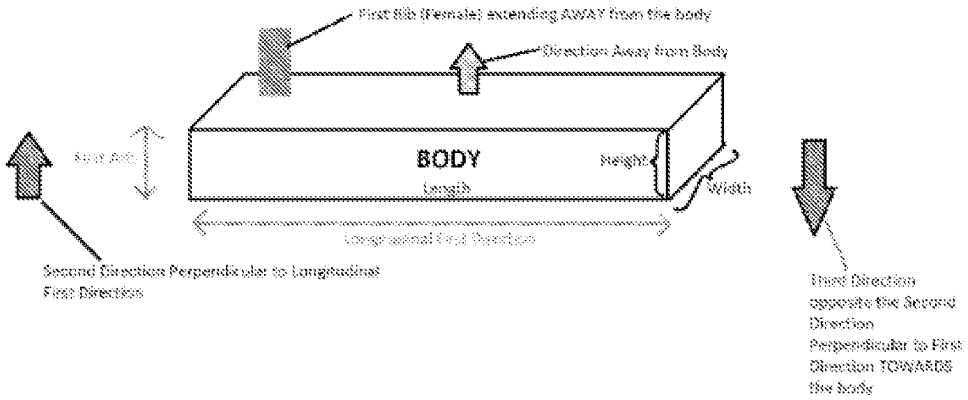
Subject application, FIG. 8B (Annotated).

As can be seen above, FIG. 8B depicts an exemplary embodiment of "the first tongue extending in a third direction and the second tongue extending in a fourth direction opposite the third direction," which is recited in claims 24 and 25. Accordingly, Applicant respectfully submits that the drawing objection with respect to claims 24-26 should be withdrawn.

On pages 4-5 of the Office Action, the Examiner objected to the drawings with respect to claims 28-33 and 35-37. Office Action, pages 4-5. In particular, the Examiner objected to the phrases "a body extending longitudinally in a first direction, "a first rib extending away from the body along a first axis in a second direction perpendicular to the first direction," and "a second rib extending away from the body along the first axis in a third direction opposite the second direction and perpendicular to the first direction," which are recited in independent claims 28 and 31. Office Action, page 4. Claims 29-30, 32-33, and 35-37 depend from claims 28 and 31.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 923
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

The Examiner stated that "it is unclear how the second rib is configured to extend AWAY from the body along the first axis in a third direction." Office Action, page 4. For reference, the Examiner provided an annotated image, which is copied below.



Office Action, page 4.

Applicant thanks the Examiner for providing that annotation so Applicant can visualize the Examiner's interpretation. Applicant respectfully submits that the figures generally and FIG. 22 in particular depict an exemplary and non-limiting embodiment of the ribs and directions recited in claims 28 and 31. For reference, FIG. 22 is copied and annotated below.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 924
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

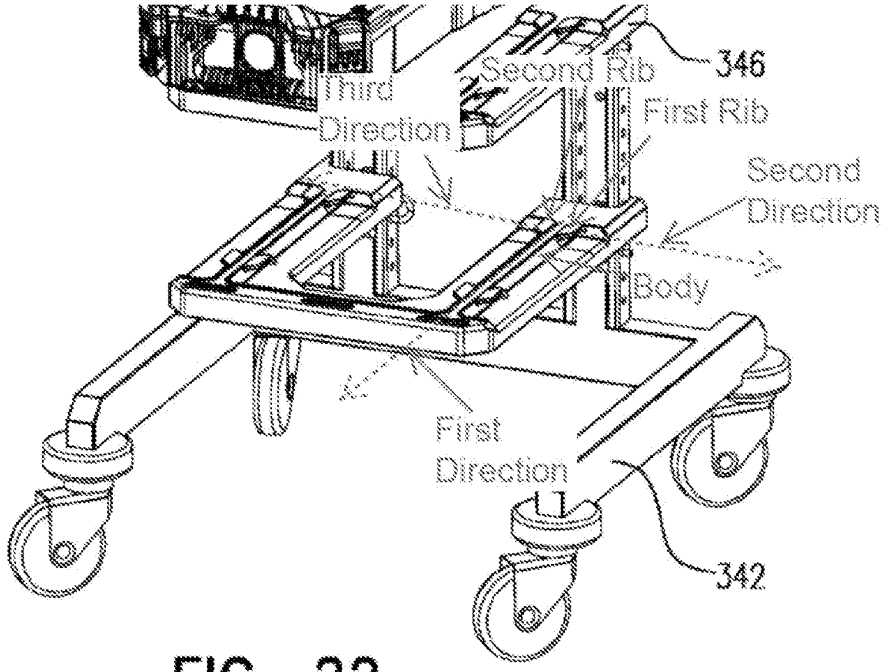


FIG. 22

Subject application, partial view of FIG. 22 (Annotated).

As can be seen above, FIG. 22 depicts an exemplary embodiment of "a body extending longitudinally in a first direction, "a first rib extending away from the body along a first axis in a second direction perpendicular to the first direction," and "a second rib extending away from the body along the first axis in a third direction opposite the second direction and perpendicular to the first direction," which claims 28 and 31 recite. Accordingly, Applicant respectfully submits that the drawing objection with respect to claims 28-33 and 35-37 should be withdrawn.

Claim Rejections - 35 U.S.C. § 112

I. Rejection of claims 21-37 under 35 U.S.C. § 112, first paragraph, as failing to comply with the enablement requirement

On pages 5-6 of the Office Action, the Examiner rejected claims 21-37 under 35 U.S.C. § 112, first paragraph, as failing to comply with the enablement requirement. In particular, the

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 925
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Examiner objected that "as discussed above [with respect to the drawing objections], it is entirely unclear how the various ribs, couplers, axes, and directions are configured or relate to the embodiments disclosed." Office Action, page 6. Therefore, "how such ribs, couplers, tongues, etc. are formed is not enabled." Office Action, page 6.

Applicant respectfully submits that claims 21-37 are depicted in the figures of the subject application as described above. In particular, Applicant submits that claims 21-37 are enabled at least for the reasons shown and described above with respect to FIGS. 8B and 22.

Accordingly, Applicant respectfully submits that this rejection should be withdrawn.

II. Rejection of claims 21-37 under 35 U.S.C. § 112, second paragraph, as being indefinite

On pages 6-7 of the Office Action, the Examiner rejected claims 21-37 under 35 U.S.C.§ 112, second paragraph, as being indefinite in regard to "first rib," "second rib," "first tongue," "second tongue," "first axis," "first direction," "second direction," "third direction," and "fourth direction." Office Action, page 7. In particular, "the lack of enablement for these terms renders the claims indefinite." Office Action, page 7.

Applicant respectfully submits that claims 21-37 are depicted in the figures of the subject application as described above. In particular, Applicant submits that claims 21-37 are definite at least for the reasons shown and described above with respect to FIGS. 8B and 22.

Accordingly, Applicant respectfully submits that this rejection should be withdrawn.

Claim Rejections - 35 U.S.C. § 102(a)(1)

On pages 7-10 of the Office Action, the Examiner rejected claims 21-28 and 35 under 35 U.S.C. § 102(a)(1) as being anticipated by Chang, U.S. Patent No. 5,325,966. On pages 10-11 of the Office Action, the Examiner rejected claims 28, 31-33, 35, and 37 under 35 U.S.C. § 102(a)(1) as being anticipated by Herbst, U.S. Patent No. 5,4,54,634.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 926
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

I. Rejection of Claims 21-28 and 35 as Being Anticipated by Chang

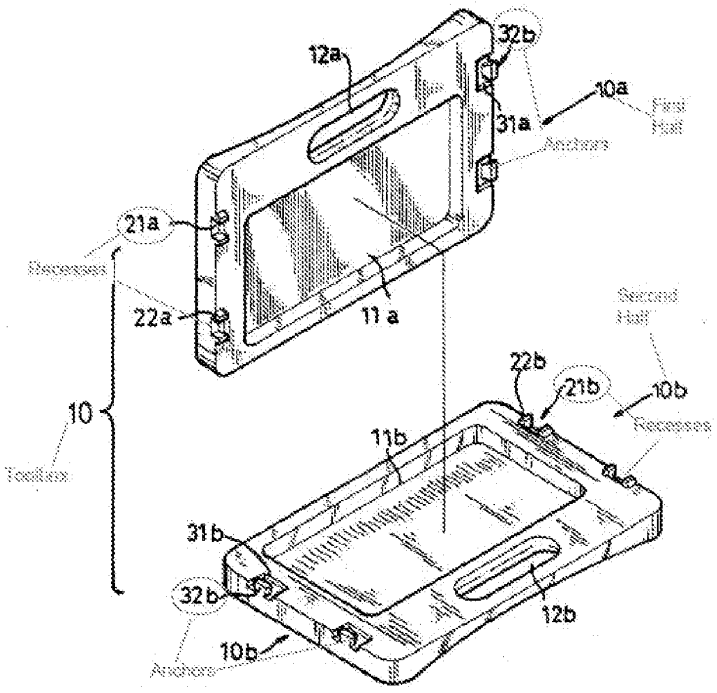
A. Independent Claim 21

Applicant respectfully submits that Chang fails to disclose claim 21 for at least two reasons. First, Chang fails to disclose a first utility module comprising front and rear rows of female couplers and a second utility module comprising front and rear rows of male couplers. Second, Chang fails to disclose ribs "extending above and parallel to an upper face" and tongues "extending above and parallel to the bottom face," which claim 21 recites.

i. Chang fails to disclose a first utility module comprising front and rear rows of female couplers and a second utility module comprising front and rear rows of male couplers

Applicant submits that Chang fails to disclose a first utility module including "a front row of at least two female couplers aligned with each other in a direction parallel to the front face of the first utility module and a rear row of at least two female couplers," which claim 21 recites. Instead, Chang appears to show that each half (10a, 10b) of toolbox 10 includes two recesses (21a, 21b) and two anchors (32b). As background, the recesses and anchors are opposing couplers in Chang that engage each other. Chang, col. 1, lines 40-46. For reference, FIG. 1 in Chang is copied and annotated below.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 927
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400



Chang, FIG. 1 (annotated).

Thus, Chang does not disclose a first utility module that includes a front row of female couplers and a rear row of female couplers.

Further, Applicant submits that Chang fails to disclose a second utility module including "a front row of at least two male couplers aligned with each other in a direction parallel to the front face of the second utility module and a rear row of at least two male couplers," which claim 21 recites. Instead, each half 10a, 10b of the toolbox 10 Chang appears to include two recesses (21a, 21b) and two anchors (32b). Thus, Chang also does not disclose a first utility module that includes a front row of male couplers and a rear row of male couplers.

For at least these reasons Applicant respectfully submits that Chang does not disclose claim 21 and the rejection of claim 21 under 35 U.S.C. § 102(a)(1) should be withdrawn.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 928
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

ii. Chang fails to disclose ribs "extending above and parallel to an upper face" and tongues "extending above and parallel to the bottom face"

Applicant submits that Chang fails to disclose a first rib "extending in a first direction extending above and parallel to an upper face of the first utility module" or "a first tongue extending above and parallel to the bottom face of the second utility module, the first tongue configured for arresting engagement between one of the first ribs and the upper face of the first utility module," which claim 21 as amended recites. Instead, Chang appears to show recesses (21a, 21b) that are configured to receive anchors 32b. However, neither the recesses nor the anchors include ribs or tongue that appear to extend above and parallel to a face of a utility module.

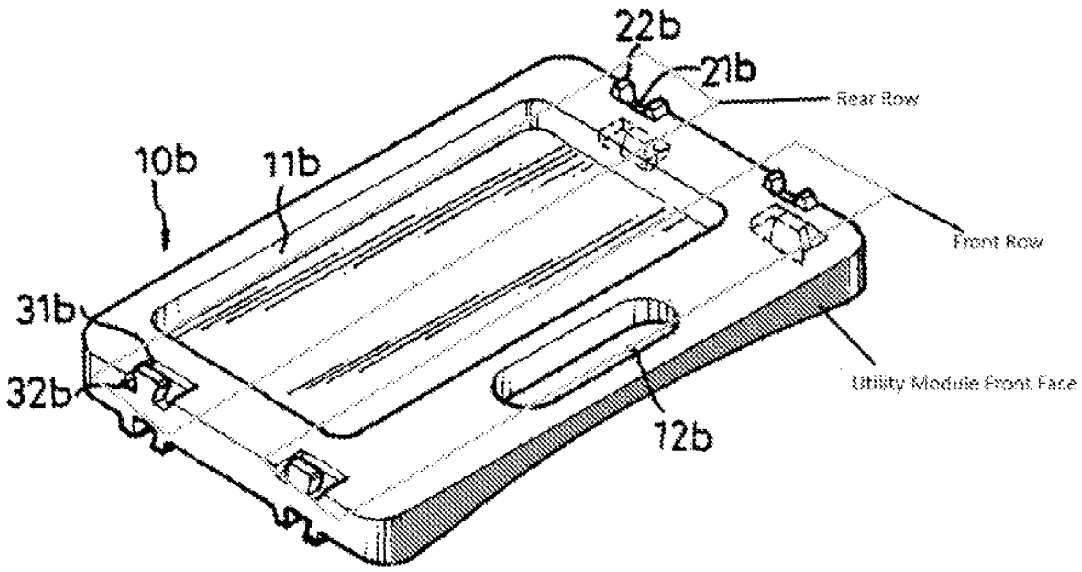
Accordingly, Applicant respectfully asserts that independent claim 21 and related dependent claims 22-27 are not anticipated by Chang under 35 U.S.C. § 102(a)(1).

B. Independent Claim 28

Applicant submits that Chang fails to disclose "a body extending longitudinally in a first direction," "a first rib extending away from the body along a first axis in a second direction perpendicular to the first direction," and "a second rib extending away from the body along the first axis in a third direction opposite the second direction," which claim 28 as amended recites.

For reference, the Examiner provides the following annotated image of Chang.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 929
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400



Chang (US 5325966) - Detail from Figure 8 with annotations applied to Claim 21

Office Action, page 8 (citing to Chang, FIG. 8) (Annotated).

To teach the first rib, the Examiner cites to one of the anchors 32b. Office Action, page 9. To teach the second rib, the Examiner cites to the anchor 32b "in the second row." Office Action, page 9.

Applicant submits that the two anchors 32b in lower-half 10b of Chang do not disclose the first rib and second rib of claim 28 as amended. In particular, claim 28 recites "a first rib extending away from the body along a first axis" and "a second rib extending away from the body along the first axis in a third direction opposite the second direction." In contrast, Chang appears to show anchors 32b extending in directions that are parallel to each other. This is different than two ribs extending in opposing directions along "the first axis," which claim 28 recites.

Accordingly, Applicant submits that claim 28 as amended and related dependent claim 35 are not anticipated by Chang under 35 U.S.C. § 102(a)(1).

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 930
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

II. Rejection of Claims 28, 31-33, 35, and 37 as Being Anticipated by Herbst

On pages 10-11 of the Office Action, the Examiner rejected claims 28, 31-33, 35, and 37 under 35 U.S.C. § 102 as being anticipated by Herbst, U.S. Patent No. 5,454,634.

A. Independent Claim 28

Claim 28 was amended to include the subject matter of former claim 30. As a reminder, claim 30 was not rejected as being anticipated by Herbst. Instead, former claim 30 was rejected for being obvious in view of Chang. Office Action, page 9.

Accordingly, Applicant submits that claim 28 as amended and related dependent claim 35 are not anticipated by Herbst under 35 U.S.C. § 102.

Further, Applicant respectfully submits that independent claim 28 is non-obvious over Chang. In particular, for the reasons discussed above Applicant respectfully submits that Chang does not disclose, teach or suggest "a first rib extending away from the body along a first axis in a first direction" and "a second rib extending away from the body along the first axis in a second direction opposite the first direction," which claim 28 recites.

B. Independent Claim 31

Claim 31 was amended to include the subject matter of former claim 30. As a reminder, claim 30 was not rejected as being anticipated by Herbst. Instead, former claim 30 was rejected for being obvious in view of Chang. Office Action, page 9.

Accordingly, Applicant submits that claim 31 as amended and related dependent claim 32-33 and 37 are not anticipated by Herbst under 35 U.S.C. § 102.

Further, Applicant respectfully submits that independent claim 31 is non-obvious over Chang for the same or similar reasons as exist for independent claim 28. In particular, for the reasons discussed above Applicant respectfully submits that Chang does not disclose, teach or suggest "a first rib extending away from the body along a first axis in a first direction" and "a

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 931
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

second rib extending away from the body along the first axis in a second direction opposite the first direction," which claim 31 recites.

Claim Rejections - 35 U.S.C. § 103

I. Rejection of claims 29-30, 34, and 36 under 35 U.S.C. § 103 as being unpatentable over Chang in view of Madsen

On pages 12-13 of the Office Action, the Examiner rejected claims 29-30, 34, and 36 under 35 U.S.C. § 103 as being unpatentable over Chang in view of Madsen, U.S. Patent Publication No. 2011/0139665.

Claims 29 and 36 depend from independent claim 28, and claim 34 depends from independent claim 21. The Office Action provides no indication that Madsen remedies the deficiencies of Chang with respect to claim 21 or claim 28. Accordingly, Applicant respectfully submits that claims 29, 34, and 36 are allowable over Chang and Madsen for at least the same reasons as exist for independent claims 21 and 28, from which claims 29, 34, and 36 depend.

Upon entry of these claim amendments, claim 30 is cancelled. Accordingly, the rejection of claim 30 will be rendered moot.

Conclusion

Applicant believes that the present application is in condition for allowance. Favorable reconsideration of the application is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

It should be noted that, for the sake of clarity and simplicity, Applicant's remarks have focused on the rejections of the independent claims set forth in the Office Action with the understanding that the dependent claims are patentable for at least the same reasons as the independent claims. Further, in addressing the Examiner's rejections, Applicant's remarks have

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 932
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

set forth only some of the available arguments for patentability of the rejected claims. Applicant expressly reserves the right to argue the patentability of all claims separately and to provide new, different, and/or additional arguments for patentability not set forth herein, including, but not limited to, the failure of cited references to disclose, teach, or suggest other elements of the claims, the lack of motivation to combine cited references, teachings away from the combination of cited references, the failure of references to qualify as prior art or improper combination of the cited references, in this or any future proceedings.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 18-0882. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 18-0882.

Respectfully submitted,

Date March 11, 2022

By /Derek H. Campbell/

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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 933
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Electronic Acknowledgement Receipt	
EFS ID:	45204323
Application Number:	17132609
International Application Number:	
Confirmation Number:	8591
Title of Invention:	Utility Assembly and Coupling Mechanism
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	142078
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2863
Receipt Date:	11-MAR-2022
Filing Date:	23-DEC-2020
Time Stamp:	15:25:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		066749-2863_Final_Office_Action_Response.pdf	404612 d28909635b6470e4bd9973ccb93e36db40f993b1	yes	19

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Response After Final Action	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	19
Warnings:			
Information:			
	Total Files Size (in bytes):	404612	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Milwaukee Electric Tool Corporation et al.
Title:	Utility Assembly and Coupling Mechanism
Appl. No.:	17/132,609
Filing Date:	December 23, 2020
Examiner:	WEINERTH, GIDEON R.
Art Unit:	3736
Confirmation No:	8591

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.116

This communication is responsive to the Final Office Action dated January 12, 2022, concerning the above-referenced patent application.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this document.

Remarks begin on page 7 of this document.

Please amend the application as follows:

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 936
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/132,609	12/23/2020	Yaron Brunner	066749-2863	8591

142078 7590 01/12/2022

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EXAMINER	
WEINERTH, GIDEON R	

ART UNIT	PAPER NUMBER
3736	

NOTIFICATION DATE	DELIVERY MODE
01/12/2022	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPAdmin@reinhartlaw.com

Office Action Summary	Application No. 17/132,609	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 08 December 2021.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☑ This action is **FINAL.** 2b) ☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 21-37 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 21-37 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 23 December 2020 is/are: a)☐ accepted or b)☑ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 12/8/2021.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 938
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Response to Amendment

In the Amended Claims of December 8, 2021, Claims 21-37 are pending. Claims 21-28, 30, and 31 are amended. Claims 34-37 are new.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the following must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

1. Claim 21 recites a plurality of male couplers arranged in at least a two-by-two arrangement. EACH of these individual male couplers comprise a first tongue offset from the bottom of the utility module.

2. Claims 24-26 appear to relate to an embodiment not disclosed in any figure of the original disclosure. These claims recite a second tongue of the male coupler, wherein the first tongue extends in a third direction and the second tongue extends in a fourth direction opposite the third direction.

3. In other words, Claims 24-26 recites that each individual male coupler includes TWO tongues extending in opposite directions.

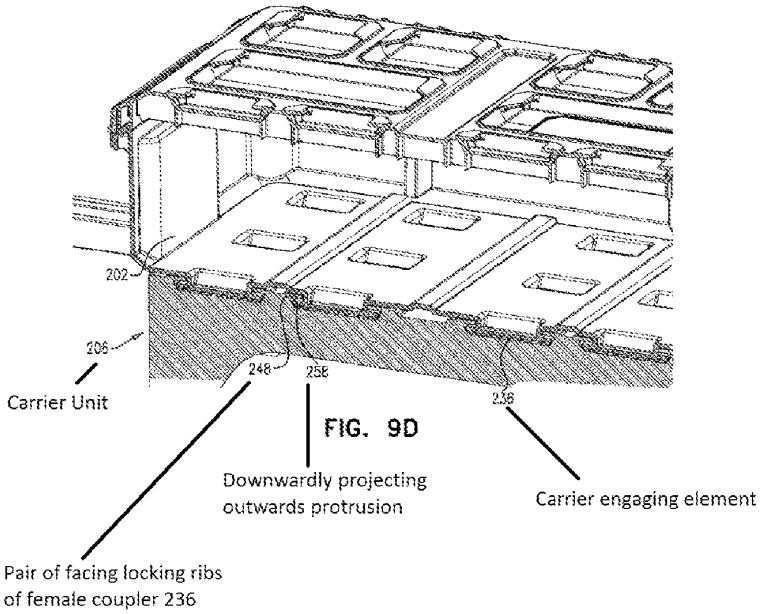
4. This is not shown in ANY embodiment, nor discussed in any part of the original disclosure.

5. Nowhere in the original disclosure are terms such as “first tongue” or “second tongue” recited as being part of the male coupler.

6. The male coupler is referred to as a projecting portion (56) configured with a singular locking tongue (60) laterally projecting rearwards. In an alternate embodiment, the unit’s first engaging elements 240 is generally constituted by a downwardly projecting outwards protrusion 258 projecting from the bottom face 220 of the container (Specification Paragraph 00219).

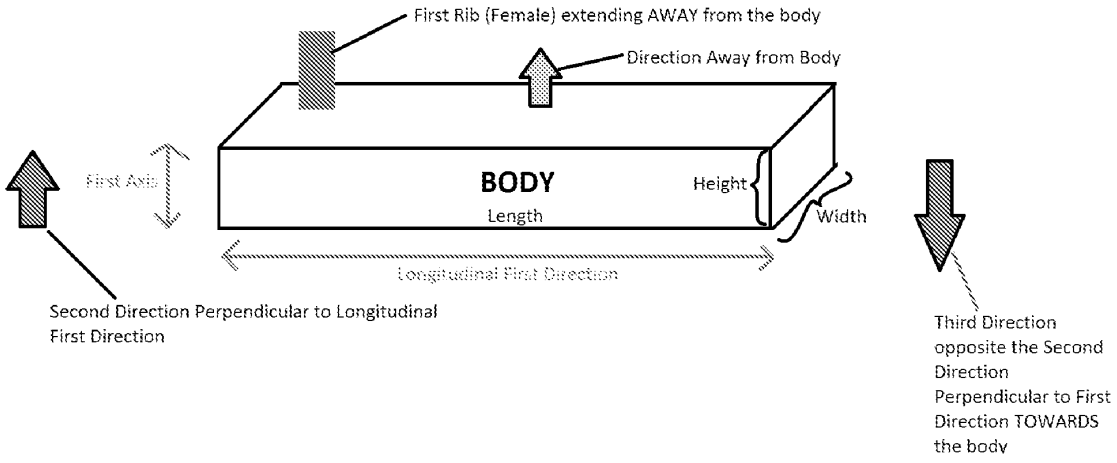
7. It is unclear or unlabeled if the male coupler’s two tongues are part of the downwardly projecting outwards protrusion or are simply unlabeled or not enabled.

8. As shown below, even in Figure 9D, the downwardly projecting outwards protrusion 258 is not disclosed to have two tongues, but rather a singular tongue engaged by a pair of facing locking ribs (248).



9. Claims 28-33 and 35-37 recites a body extending longitudinally in a first direction and a first rib extending away from the body along a first axis in a second direction perpendicular to the first direction.

10. These directions and axes are labeled below.



11. It is unclear how the second rib is configured to extend AWAY from the body ALONG the first axis in a THIRD direction OPPOSITE the Second direction. Furthermore, it is entirely unclear how the ribs of the female coupler are configured, as each of the female coupler ribs are configured to run PARALLEL to the longitudinal face of the body. Applicant is required to fully reference the rib construction in reference to the drawings.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure

number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112(a):

> (a) IN GENERAL.—The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor or joint inventor of carrying out the invention.

The following is a quotation of the first paragraph of pre-AIA 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

12. Claims 21-37 are rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to

enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

13. As discussed above, it is entirely unclear how the various ribs, couplers, axes, and directions are configured or relate to the embodiments disclosed. Applicant is requested to furnish drawings or depictions as to how such claimed couplers, ribs, and components are constructed or relate to the claim language.

14. Furthermore, the language of first axis, second axis, first direction, second direction, third direction, first rib, second rib, first tongue, and second tongue are entirely absent in the written description. The Claim language is entirely unclear as to the construction of such ribs, couplers, and tongues in relation to each other and the body of the platform or module. Therefore, how such ribs, couplers, tongues, etc. are formed is not enabled.

15. Claims 21-37 are rejected under 35 U.S.C. 112(a) or pre-AIA 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. The disclosure does not enable one of ordinary skill in the art to practice the invention without understanding or depicting the directions, axes, and directions which are critical or essential to the practice of the invention but not included in the claim(s). See In re Mayhew, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976).

The following is a quotation of 35 U.S.C. 112(b):

> (b) CONCLUSION.—the specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

16. Claims 24-26 and 28-37 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor (or for applications subject to pre-AIA 35 U.S.C. 112, the applicant), regards as the invention.

17. As discussed above, the Specification is totally devoid of the terms used in the claims, such as “first rib”, “second rib”, “first tongue”, “second tongue”, “first axis”, “first direction”, “second direction”, “third direction”, “fourth direction”. Such language must clearly set forth the claimed material construction of such components. The lack of enablement for these terms renders the claims indefinite.

18. For the purposes of examination, it will be assumed that the claims generally relate to the embodiments shown in the drawings.

Claim Rejections - 35 USC § 102

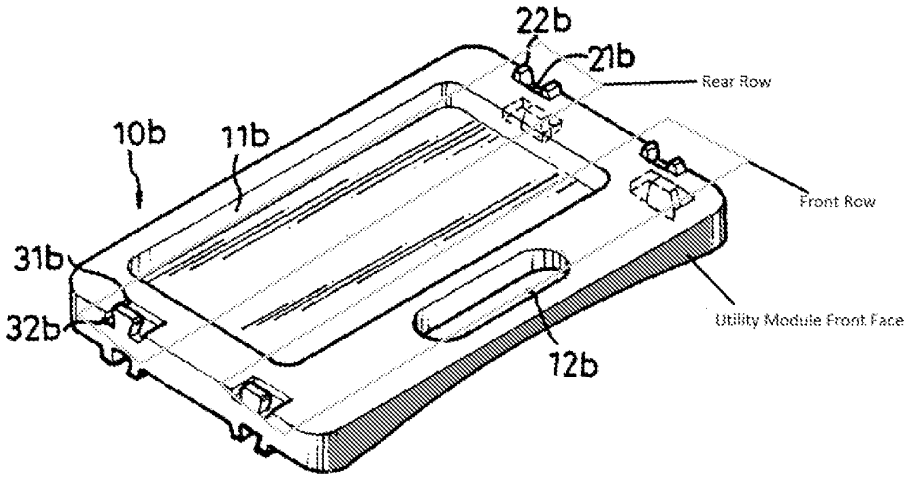
In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) The claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

19. Claims 21- 28 and 35 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Chang (US 5325966)

20. Regarding Claim 21, Chang discloses a utility module assembly (50) comprising a first utility module comprising a front face. Chang also discloses a plurality of female couplers. The female couplers are arranged in a front row of at least two female couplers aligned with each other in a direction parallel to the front face of the first utility module and a rear row of at least two female couplers aligned with each other in the direction parallel to the front face of the first utility module as shown below in Chang Figure 8.



Chang (US 5325966) - Detail from Figure 8 with annotations applied to Claim 21

21. Each of the female couplers comprise a first rib (22b or 32b) extending in a first direction offset from an upper face of the first utility module.

22. Chang also discloses an identical second utility module comprising a front face and a plurality of male couplers aligned with each other in a parallel direction in front and rear rows on the bottom of the module. Each of the male couplers comprise a first

tongue (31b, 22a) offset from the bottom face of the second utility module configured for arresting engagement between one of the first ribs and the first utility module.

23. Regarding Claim 22, Chang discloses a first female coupler of the female couplers and a first male coupler of the male couplers engage when the first and second utility modules are slid along a sliding path defined by the first rib of the first female coupler and the first tongue of the first male coupler (Col. 2 Lines 40-46, Figures 2 and 3).

24. Regarding Claim 23, Chang discloses each of the female couplers comprise a second rib (either the pair of claws 22b or either edge of the anchors 32b).

25. Regarding Claims 24-26, each of the male couplers of Chang may be considered to comprise a second tongue.

26. Regarding Claim 27, Chang discloses the plurality of male couplers extends from a bottom face of the second utility module.

27. Regarding Claim 28, Chang discloses a coupling platform for a connectable utility module comprising a body extending longitudinally in a first direction. A first rib (32b) extends away from the body along a first axis in a second direction perpendicular to the first direction. The first rib (32b) is configured to arrestingly engage between a first face of a utility module and a first male coupler (22b) extending from the first face of the utility module. The first male coupler (22b) comprises a first tongue offset from the first face of the utility module.

28. Chang also discloses a second rib (32b in the second row) extending away from the body along the first axis in a third direction parallel to the second direction and perpendicular to the first direction. The second rib (32b in the second row) is configured

to arrestingly engage between the first face of the utility module and a second male coupler extending from the first face of the utility module. The second male coupler (22b) comprising a second tongue offset from the first face of the utility module.

29. Regarding Claim 35, Chang discloses the second male coupler is distinct from the first male coupler.

30. Claims 28, 31, 32, 33, 35 and 37 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Herbst (US 5454634).

31. Regarding Claim 28, Herbst discloses a coupling platform for a connectable utility module comprising a body (20) extending longitudinally in a first direction. Herbst also discloses a first rib (124) configured to arrestingly engage between a first face of a utility module and a first male coupler (100, 108). The first male coupler (100) comprises a first tongue offset from the first face of the utility module. Herbst also discloses a second rib (124) configured to arrestingly engage between the first face of the utility module and a second male coupler extending from the first face of the utility module. The second male coupler comprising a second tongue offset from the first face of the utility module.

32. Regarding Claim 31, Herbst discloses coupler for a connectable utility module comprising a body and a first rib configured to arrestingly engage between a first face of a utility module and a first male coupler. The first male coupler comprises a first tongue offset from the first face of the utility module. Herbst also discloses a second rib configured to arrestingly engage between the first face of the utility module and a second male coupler. Herbst also discloses a latch recess (154) in the body configured to receive a latch (152) in a locked position in which the latch prevents disengagement

of the body from the utility module when the first tongue and the first rib are engaged and the second tongue and the second rib are engaged (Col. 7 Lines 54-62).

33. Regarding Claim 32, Herbst discloses the first rib is offset from a first recess and the second rib is offset from a second recess.

34. Regarding Claim 33, Herbst discloses the latch recess is an elongate recess defining a major axis and a minor axis, wherein the major axis of the latch recess is parallel to the first direction and the second direction.

35. Regarding Claim 35, Herbst discloses the second male coupler is distinct from the first male coupler.

36. Regarding Claim 37, Herbst discloses the second male coupler is distinct from the first male coupler.

Claim Rejections - 35 USC § 103

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

37. Claims 29, 30, 34, and 36 are rejected under 35 U.S.C. 103 as being unpatentable over Chang (US 5325966) as applied to claims 21 and 28 above, and further in view of Madsen (US 2011/0139665).

38. Regarding Claim 29, Chang discloses the limitations of Claim 28 as discussed above. Chang does not disclose the body extending from a work stand coupled to a wheeled base. Madsen discloses the body extends from a work stand (a surface of a bottommost module) coupled to a wheeled base (20 – Figure 9). Chang and Madsen are analogous inventions in the art of connectable tool storage devices.

39. It would have been obvious for one having ordinary skill in the art before the effective filing date of the claimed invention to modify the body of Chang to include wheels as disclosed in Madsen in order to allow easier transportation of the stacked modules (Paragraph 0025).

40. Regarding Claim 30, Chang discloses additional ribs configured to engage with male couplers.

41. Regarding Claim 34, Chang discloses the limitations of Claim 21 as discussed above. Chang does not disclose a latch and latch recess that prevents disengagement. Madsen discloses a latch recess in the body configured to receive a latch (9) in a locked position in which the latch prevents disengagement of the body from the utility module when the first tongue and the first rib are engaged and the second tongue and the second rib are engaged. Chang and Madsen are analogous inventions in the art of connectable tool storage devices.

42. It would have been obvious for one having ordinary skill in the art before the effective filing date of the claimed invention to modify the modules of Chang with the

latch and latch recess of Madsen in order to hold a stack of such cases in place (Paragraphs 0002, 0009).

43. Regarding Claim 35, Chang discloses the fourth male coupler is distinct from the third male coupler.

Response to Arguments

44. Applicant's arguments with respect to the claims have been considered but are moot because the new ground of rejection does not rely on any reference applied in the prior rejection of record for any teaching or matter specifically challenged in the argument.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIDEON R. WEINERTH whose telephone number is (571)270-5121. The examiner can normally be reached Monday-Friday 10AM-6PM EST.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Pickett can be reached on (571) 272-4560. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GIDEON R WEINERTH/
Examiner, Art Unit 3736

Notice of References Cited	Application/Control No. 17/132,609	Applicant(s)/Patent Under Reexamination Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2386343-A	10-1945	REGENHARDT WALTER F	A47B87/02	312/111
*	B	US-3552817-A	01-1971	MARCOLONGO EMILIO	A47B87/02	312/107
*	C	US-3567298-A	03-1971	ANTONIUS AMBAUM	A47B87/0292	312/111
*	D	US-3851936-A	12-1974	Muller; Richard	F16B12/20	312/108
*	E	US-4564732-A	01-1986	Lancaster; Eldon R.	B41J5/105	200/307
*	F	US-4660725-A	04-1987	Fishman; Aaron H.	A47B87/02	206/278
*	G	US-5154291-A	10-1992	Sur; Francis Y.	G11B33/0483	206/308.1
*	H	US-5454634-A	10-1995	Herbst; John E.	A47B87/007	312/108
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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 953
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Notice of References Cited	Application/Control No. 17/132,609	Applicant(s)/Patent Under Reexamination Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	Page 2 of 2

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
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*	B	US-8894160-B1	11-2014	Christensen; Robert	A47F3/005	312/108
	C					
	D					
	E					
	F					
	G					
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	I					
	J					
	K					
	L					
	M					

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	V	
	W	
	X	

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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 954
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/132,609	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	07/18/2021	01/07/2022							
	21	✓	✓							
	22	✓	✓							
	23	✓	✓							
	24	✓	✓							
	25	✓	✓							
	26	✓	✓							
	27	✓	✓							
	28	✓	✓							
	29	✓	✓							
	30	✓	✓							
	31	✓	✓							
	32	✓	✓							
	33	✓	✓							
	34		✓							
	35		✓							
	36		✓							
	37		✓							

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 955
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/132,609	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

CPC - Searched*		
Symbol	**Date**	**Examiner**
A45C5/14	03/11/2021	GW
A45C7/005,0045	03/11/2021	GW
A45C13/02	03/11/2021	GW
B25H3/02,021,023	03/11/2021	GW
B62B1/14	03/11/2021	GW
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B65D21/0223,0209,0228	03/11/2021	GW
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B25H1/04	03/11/2021	GW
B65H2701/533	03/11/2021	GW
Update Search	07/17/2021	GW
B25H3/023	01/05/2022	GW
B65D21/02	01/05/2022	GW

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
312	111,199,108	01/05/2022	GW

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

/GIDEON R WEINERTH/ Examiner, Art Unit 3736	

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 956
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/132,609	Brunner et al.
	Examiner	Art Unit
	GIDEON R WEINERTH	3736

Search Notes		
Search Notes	**Date**	**Examiner**
Inventor search, IDS Search, update search from applications 15826201, 15826232, 16216724, 16752441	03/11/2021	GW

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
220	4.27		

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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 957
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

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PTO/SB/08 (09-06)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: December 8, 2021

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	17/132,609
Filing Date	December 23, 2020
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	WEINERTH, GIDEON R.
Attorney Docket Number	066749-2863

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Signature	/GIDEON R WEINERTH/	Date Considered	12/30/2021

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Sheet 2 of 2

Complete if Known	
Application Number	17/132,609
Filing Date	December 23, 2020
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	WEINERTH, GIDEON R.
Attorney Docket Number	066749-2863

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant
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	A38	2021/0187725	06-24-2021	Brunner	
	A39	2021/0267368	09-02-2021	Bruins	
	A40	D917,977	05-04-2021	Brunner et al.	
	A41	D923,935	07-06-2021	Brunner et al.	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[6]

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	82	(US-20060076261-$ or US-20030038566-$ or US-20050110371-$ or US-20080280523-$ or US-20070006542-$ or US-20060165482-$ or US-20040149754-$).did. or (US-11008136-$ or US-10750833-$ or US-7837165-$ or US-7172164-$ or US-6082687-$ or US-5433416-$ or US-9551367-$ or US-3935613-$ or US-1081378-$ or US-3424334-$ or US-7350648-$ or US-3182856-$ or US-3047157-$ or US-10711941-$ or US-3429543-$ or US-10364935-$ or US-9958667-$ or US-8448829-$ or US-5697500-$ or US-5375709-$ or US-5154291-$ or US-4216857-$ or US-6371321-$ or US-D328972-$ or US-D238401-$ or US-3760937-$).did. or (US-5918762-$ or US-4098402-$ or US-3567298-$ or US-3904259-$ or US-6109707-$ or US-5666713-$ or US-6050657-$ or US-7410289-$ or US-5454634-$ or US-7100999-$ or US-7967401-$ or US-5775046-$ or US-10501929-$ or US-2902853-$ or US-4564732-$ or US-5720537-$ or US-5044594-$ or US-10485312-$ or US-4635611-$ or US-4019298-$ or US-9887017-$ or US-8123284-$ or US-4900090-$ or US-1303090-$ or US-3851936-$ or US-2132757-$ or US-2472363-$).did. or (US-9661944-$ or US-8894160-$ or US-10514519-$ or US-3552817-$ or US-5993283-$ or US-4423913-$ or US-4660725-$ or US-3999818-$ or US-5325975-$ or US-4003172-$ or US-3743372-$ or US-4026615-$ or US-3421801-$ or US-2386343-$ or US-3860147-$ or US-2304020-$ or US-2169769-$ or US-1602383-$ or US-0864761-$).did. or (US-2793407-$ or US-3506321-$ or US-2614016-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/07 20:50
L2	16	("10750833" | "20060076261" | "D898320" | "10933501" | "D285986" | "5433416" | "11008136" | "7837165" | "20200029543" | "4243279" | "1084360" | "3999818" | "8925752" | "6082687" | "7172164").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/07 20:57
L22	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/07 20:58

		US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-				

		0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-			

		D816334-$ or US-D815831-$ or US-D814187-$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$ or US-7367571-$ or US-7263742-$ or US-D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$ or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-				

		0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.				
L23	71	(US-0001482-$ | US-0015928-$ | US-0025706-$ | US-0060953-$ | US-0094392-$ | US-0127007-$ | US-0151427-$ | US-0155373-$ | US-0176261-$ | US-0187725-$ | US-0213934-$ | US-0267368-$ | US-0310842-$ | US-1081378-$ | US-10222172-$ | US-10962218-$ | US-10981696-$ | US-11059631-$ | US-2124541-$ | US-2939613-$ | US-	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/07 20:59

		20030094392-$ | US-20050015928-$ | US-20080060953-$ | US-20100176261-$ | US-20150151427-$ | US-20150310842-$ | US-20180127007-$ | US-20180213934-$ | US-20190001482-$ | US-20210025706-$ | US-20210155373-$ | US-20210187725-$ | US-20210267368-$ | US-3423786-$ | US-3424334-$ | US-3935613-$ | US-4817237-$ | US-4929973-$ | US-5356038-$ | US-5356105-$ | US-5622296-$ | US-5664292-$ | US-5850996-$ | US-6098858-$ | US-6371424-$ | US-7077372-$ | US-7090085-$ | US-7152752-$ | US-8851282-$ | US-9551367-$ | US-9888752-$ | US-D917977-$ | US-D923935-$).DID.				
L24	66	L1 not (L2 l22 l23)	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/07 20:59
L25	1	"5454634".PN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/07 21:02
S1	1,051	((("MILWAUKEE") near3 ("ELECTRIC") near3 ("TOOL") near3 ("CORPORATION"))).AS,AANM.	USPAT	OR	ON	2021/03/05 00:56
S2	76	((("Brunner") near3 ("Yaron"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S3	65	((("Squiers") near3 ("Grant") near3 ("T"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S4	99	((("Hoppe") near3 ("Christopher") near3 ("S"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S5	173	((("Hyma") near3 ("Steven") near3 ("W"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S6	570	220/4.27.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S7	411	B65D21/0223.cpc.	US-PGPUB;	OR	ON	2021/03/05 00:57

			USPAT; USOCR			
S8	2,264	A45C5/14.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:57
S9	96	A45C7/005.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S10	3,423	A45C13/02.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S11	441	A45F3/10.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S12	947	B25H1/04.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S13	1,369	B25H3/02,021.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S14	1,162	B62B1/14.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S15	753	B65D21/0209,0228.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:58
S16	382	A45C7/0045.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:59
S17	476	B25H3/023.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:59
S18	978	B62B5/067.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:59

S19	45	B65D2255/00.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:59
S20	209	B65H2701/533.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/05 00:59
S21	291	(US-D192092-$ | US-0000440-$ | US-0002004-$ | US-0006770-$ | US-0023349-$ | US-0024468-$ | US-0026901-$ | US-0027475-$ | US-0031222-$ | US-0031731-$ | US-0031732-$ | US-0034515-$ | US-0038367-$ | US-0039781-$ | US-0044059-$ | US-0052276-$ | US-0055534-$ | US-0062244-$ | US-0068757-$ | US-0068903-$ | US-0071990-$ | US-0073516-$ | US-0074158-$ | US-0076759-$ | US-0090616-$ | US-0094393-$ | US-0099405-$ | US-0103494-$ | US-0104308-$ | US-0104921-$ | US-0106244-$ | US-0115312-$ | US-0115715-$ | US-0119060-$ | US-0121056-$ | US-0121547-$ | US-0121783-$ | US-0125072-$ | US-0127129-$ | US-0127146-$ | US-0130034-$ | US-0134607-$ | US-0138382-$ | US-0139566-$ | US-0139665-$ | US-0139745-$ | US-0144500-$ | US-0145700-$ | US-0145790-$ | US-0145866-$ | US-0145913-$ | US-0146589-$ | US-0147642-$ | US-0147781-$ | US-0153312-$ | US-0154218-$ | US-0155613-$ | US-0160886-$ | US-0161518-$ | US-0161975-$ | US-0165036-$ | US-0165828-$ | US-0166352-$ | US-0166516-$ | US-0168376-$ | US-0168880-$ | US-0169739-$ | US-0171228-$ | US-0174392-$ | US-0174939-$ | US-0178946-$ | US-0180250-$ | US-0181008-$ | US-0184034-$ | US-0186513-$ | US-0186624-$ | US-0194543-$ | US-0195793-$ | US-0205877-$ | US-0206656-$ | US-0207571-$ | US-0217464-$ | US-0219193-$ | US-0220531-$ | US-0220758-$ | US-0221177-$ | US-0223971-$ | US-0225371-$ | US-0236482-$ | US-0239808-$ | US-0242144-$ | US-0243925-$ | US-0254946-$ | US-0257958-$ | US-0266804-$ | US-0271280-$ | US-0271616-$ | US-0274362-$ | US-0277221-$ | US-0290288-$ | US-0292213-$ | US-0296443-$ | US-0299027-$ | US-0308369-$ | US-0318927-$ | US-0320243-$ | US-0326406-$ | US-0349013-$ | US-0376917-$ | US-10106180-$ | US-10434638-$ | US-10583962-$ | US-10758065-$ | US-2042387-$ | US-2430200-$ | US-2970358-$ | US-	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:40

		20020000440-$ | US-20020125072-$ | US-20020171228-$ | US-20030094393-$ | US-20030115715-$ | US-20030146589-$ | US-20030184034-$ | US-20030205877-$ | US-20040103494-$ | US-20040195793-$ | US-20040206656-$ | US-20050062244-$ | US-20050104308-$ | US-20050139745-$ | US-20050242144-$ | US-20060006770-$ | US-20060027475-$ | US-20060038367-$ | US-20060119060-$ | US-20060186624-$ | US-20060254946-$ | US-20070068757-$ | US-20070090616-$ | US-20070145700-$ | US-20070194543-$ | US-20080104921-$ | US-20080115312-$ | US-20080121547-$ | US-20080134607-$ | US-20080169739-$ | US-20080271280-$ | US-20080277221-$ | US-20080296443-$ | US-20080308369-$ | US-20090026901-$ | US-20090071990-$ | US-20090127146-$ | US-20090145790-$ | US-20090145866-$ | US-20090145913-$ | US-20090178946-$ | US-20090236482-$ | US-20100052276-$ | US-20100139566-$ | US-20100147642-$ | US-20100219193-$ | US-20110073516-$ | US-20110139665-$ | US-20110155613-$ | US-20110174939-$ | US-20110181008-$ | US-20110220531-$ | US-20120074158-$ | US-20120160886-$ | US-20120180250-$ | US-20120207571-$ | US-20120292213-$ | US-20120326406-$ | US-20130024468-$ | US-20130031731-$ | US-20130031732-$ | US-20130068903-$ | US-20130121783-$).DID.				
S22	188	(US-20130127129-$ | US-20130154218-$ | US-20130223971-$ | US-20140076759-$ | US-20140161518-$ | US-20140166516-$ | US-20140000-$ | US-20150034515-$ | US-20150274362-$ | US-20150376917-$ | US-20160023349-$ | US-20160130034-$ | US-20160144500-$ | US-20160168880-$ | US-20160221177-$ | US-20170121056-$ | US-20170138382-$ | US-20170165828-$ | US-20170166352-$ | US-20170174392-$ | US-20170217464-$ | US-20170239808-$ | US-20170257958-$ | US-20170266804-$ | US-20170318927-$ | US-20170349013-$ | US-20180044059-$ | US-20180099405-$ | US-20180153312-$ | US-20180161975-$ | US-20180186513-$ | US-20180220758-$ | US-20180290288-$ | US-20190002004-$ | US-20190031222-$ | US-20190039781-$ | US-20190106244-$ | US-20190168376-$ | US-20190225371-$ | US-20200055534-$ | US-	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:40

		20200147781-$ | US-20200165036-$ | US-20200243925-$ | US-20200299027-$ | US-3117692-$ | US-3225865-$ | US-3506321-$ | US-3514170-$ | US-3743372-$ | US-3974898-$ | US-4168076-$ | US-4805859-$ | US-4971201-$ | US-5035445-$ | US-5098235-$ | US-5105947-$ | US-5240264-$ | US-5282554-$ | US-5301829-$ | US-5429260-$ | US-5538213-$ | US-5595228-$ | US-5608603-$ | US-5628443-$ | US-5653366-$ | US-5775046-$ | US-5797617-$ | US-5890613-$ | US-5951037-$ | US-5957421-$ | US-5988473-$ | US-6050660-$ | US-6085925-$ | US-6109627-$ | US-6176559-$ | US-6305498-$ | US-6347847-$ | US-6367631-$ | US-6371320-$ | US-6431580-$ | US-6547347-$ | US-6601930-$ | US-6619772-$ | US-6637707-$ | US-6641013-$ | US-6945546-$ | US-6948691-$ | US-6983946-$ | US-7044484-$ | US-7066475-$ | US-7147243-$ | US-7263742-$ | US-7367571-$ | US-7503569-$ | US-7658887-$ | US-7779764-$ | US-7780026-$ | US-7841144-$ | US-8028845-$ | US-8132819-$ | US-8177463-$ | US-8191910-$ | US-8448829-$ | US-8454033-$ | US-8459495-$ | US-8505729-$ | US-8567796-$ | US-8677661-$ | US-8689396-$ | US-8714355-$ | US-8813960-$ | US-8875888-$ | US-8979100-$ | US-8985922-$ | US-9132543-$ | US-9506489-$ | US-9511491-$ | US-9566990-$ | US-9616562-$ | US-9643629-$ | US-9701443-$ | US-9725209-$ | US-9872562-$ | US-D232798-$ | US-D319016-$ | US-D325324-$ | US-D326815-$ | US-D340167-$ | US-D352208-$ | US-D361511-$ | US-D395533-$ | US-D415393-$ | US-D420860-$ | US-D437669-$ | US-D456972-$ | US-D525789-$ | US-D527225-$ | US-D536580-$ | US-D630851-$ | US-D649350-$ | US-D653832-$ | US-D661858-$ | US-D663952-$ | US-D664354-$ | US-D668869-$ | US-D674605-$ | US-D701696-$ | US-D738105-$ | US-D738106-$ | US-D753394-$ | US-D753395-$ | US-D753396-$ | US-D765974-$ | US-D770179-$ | US-D777426-$ | US-D784089-$ | US-D790221-$ | US-D803631-$ | US-D806483-$ | US-D814187-$ | US-D815831-$ | US-D816334-$ | US-D826510-$ | US-D828671-$ | US-D831352-$ | US-D833744-$ | US-D836995-$ | US-D837515-$ | US-D839681-$ | US-D845080-$ | US-D845081-$ | US-D857387-$ | US-D871013-$ | US-D873085-$ | US-D880252-$ | US-D880951-$ | US-D883752-$ |			

		US-D887788-$ | US-D888422-$ | US-D888503-$ | US-D891193-$ | US-D891195-$ | US-D891875-$ | US-D892565-$).DID.				
S23	5	(US-D895375-$ | US-D895966-$ | US-D895967-$ | US-D896517-$ | US-D896518-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:41
S24	2	(("9850029") or ("20120074022")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/03/11 16:42
S25	12	("1882756" | "2361079" | "2374037" | "2488067" | "3985409" | "4621308" | "7278234").PN. OR ("9850029").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:42
S26	1,056	((("MILWAUKEE") near3 ("ELECTRIC") near3 ("TOOL") near3 ("CORPORATION"))).AS,AANM.	USPAT	OR	ON	2021/03/11 16:42
S27	76	((("Brunner") near3 ("Yaron"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:42
S28	65	((("Squiers") near3 ("Grant") near3 ("T"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:42
S29	99	((("Hoppe") near3 ("Christopher") near3 ("S"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:42
S30	174	((("Hyma") near3 ("Steven") near3 ("W"))).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:42
S31	570	220/4.27.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:44
S32	412	B65D21/0223.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:44
S33	2,264	A45C5/14.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45

S34	96	A45C7/005.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45
S35	3,426	A45C13/02.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45
S36	947	B25H1/04.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45
S37	1,369	B25H3/02,021.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45
S38	1,162	B62B1/14.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:45
S39	753	B65D21/0209,0228.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46
S40	382	A45C7/0045.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46
S41	476	B25H3/023.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46
S42	979	B62B5/067.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46
S43	45	B65D2255/00.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46
S44	209	B65H2701/533.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 16:46
S45	160	("10434638" | "20020000440" | "20020171228" | "20030115715" | "20030146589" | "20030184034" | "20030205877" | "20040103494" |	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 17:12

		"20040195793" | "20040206656" | "20050062244" | "20050104308" | "20050139745" | "20060006770" | "20060027475" | "20060038367" | "20060119060" | "20060186624" | "20060254946" | "20070068757" | "20070090616" | "20070145700" | "20070194543" | "20080104921" | "20080115312" | "20080121547" | "20080134607" | "20080169739" | "20080271280" | "20080277221" | "20080308369" | "20090071990" | "20090145790" | "20090145866" | "20090145913" | "20090178946" | "20100052276" | "20100139566" | "20100147642" | "20100219193" | "20110073516" | "20110139665" | "20110155613" | "20110181008" | "20110220531" | "20120160886" | "20120180250" | "20120207571" | "20120326406" | "20130024468" | "20130031731" | "20130031732" | "20130121783" | "20130127129" | "20130223971" | "20140161518" | "20140166516" | "20160023349" | "20160130034" | "20160144500" | "20160168880" | "20170121056" | "20170138382" | "20170165828" | "20170166352" | "20170174392" | "20170217464" | "20170239808" | "20170257958" | "20170266804" | "20170318927" | "20180044059" | "20180161975" | "20180220758" | "20180290288" | "20190002004" | "20190039781" | "20190106244" | "20190225371" | "2042387" | "2430200" | "2970358" | "3117692" | "3506321" | "3974898" | "4168076" | "5035445" | "5105947" | "5240264" | "5301829" | "5429260" | "5595228" | "5608603" | "5628443" | "5797617" | "5951037" | "5988473" | "6050660" | "6085925").PN. OR ("6109627" | "6176559" | "6347847" | "6367631" | "6371320" | "6431580" | "6547347" | "6601930" | "6619772" | "6637707" | "6641013" | "6945546" | "6948691" | "6983946" | "7044484" | "7066475" | "7147243" | "7263742" | "7367571" | "7503569" | "7658887" | "7780026" | "7841144" | "8028845" | "8132819" | "8177463" | "8191910" | "8454033" | "8459495" | "8677661" | "8689396" | "8714355" | "8813960" |			

		"8875888" | "8985922" | "9132543" | "9506489" | "9566990" | "9616562" | "9643629" | "9701443" | "9872562" | "D525789" | "D630851" | "D663952" | "D664354" | "D674605" | "D701696" | "D753394" | "D753395" | "D765974" | "D770179" | "D790221" | "D814187" | "D833744" | "D837515").PN. OR ("10583962").URPN.				
S46	364	("2430200").URPN.	USPAT	OR	ON	2021/03/11 17:24
S47	10	(("0713577") or ("1015584") or ("0213740") or ("2371856") or ("2360933")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/03/11 17:26
S48	1	("20200223585").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/03/11 17:28
S49	0	("2020/0223585").URPN.	USPAT	OR	ON	2021/03/11 17:28
S50	8	("2019/0002004").URPN.	USPAT	OR	ON	2021/03/11 17:30
S51	0	("2020/0029543").URPN.	USPAT	OR	ON	2021/03/11 17:42
S52	47	("3606372" | "4170801" | "9832985" | "4643302" | "6119858" | "20090165358" | "7415794" | "1980104" | "20140165450" | "20150021871" | "3138891" | "4918853" | "5159777" | "5203815" | "20150021871" | "10375944" | "20070045973" | "20140068998" | "20150150231" | "2097185" | "0908903" | "20050235552" | "20130255132" | "2640622" | "3802113" | "2591674" | "20050034949" | "2650449" | "D451670" | "10149537" | "3399009" | "4858366" | "5319874" | "6467779" | "10624454" | "20110239525" | "20140175092" | "5340135" | "6283288").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 17:43
S53	67	("3194426" | "3642337" | "4192562" | "4893719" | "5263576" | "5299688" | "5310071").PN. OR ("5890613").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 17:47
S54	20	(("0193339") or ("0505110") or ("0512496") or ("0841872") or ("0891110") or ("1565993") or ("1721558") or ("1965175") or ("2735608") or ("2860024")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/03/11 17:50

S55	29	("1084360").URPN.	USPAT	OR	ON	2021/03/11 17:52
S56	13	("3379482").URPN.	USPAT	OR	ON	2021/03/11 17:57
S57	8	("2017/0165828").URPN.	USPAT	OR	ON	2021/03/11 17:59
S58	8	("2019/0225371").URPN.	USPAT	OR	ON	2021/03/11 18:04
S59	7	("2011/0139777").URPN.	USPAT	OR	ON	2021/03/11 18:06
S60	15	("2005/0199522").URPN.	USPAT	OR	ON	2021/03/11 18:08
S61	8	("2018/0044059").URPN.	USPAT	OR	ON	2021/03/11 18:12
S62	33	("0299381" | "1281299" | "2758798" | "2776792" | "3182856" | "3339608" | "3533541" | "3599828" | "3642337" | "3650553" | "3842981" | "3982676" | "4408812" | "4566588" | "4681219" | "4711353").PN. OR ("4817809").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 18:15
S63	17	("20030005594" | "2271928" | "2345312" | "2963946" | "3537697" | "4817809" | "4968012" | "5107599" | "5244300" | "5481811" | "5829151" | "6298572" | "8621761").PN. OR ("10933501").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 18:15
S64	8	(("0287473") or ("0340567") or ("0664043") or ("1632243")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/03/11 18:17
S65	0	("2018/0079580").URPN.	USPAT	OR	ON	2021/03/11 22:04
S66	0	("2020/0243925").URPN.	USPAT	OR	ON	2021/03/11 22:25
S67	103	("3468081" | "3668832" | "3836217" | "4003172" | "4095769" | "4243279" | "4413867" | "4423913" | "4577914" | "4768298" | "4867513" | "5046789" | "5267863" | "D334704" | "D337653").PN. OR ("5775046").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 22:26
S68	61	("0511617" | "1890000" | "2492697" | "2557630" | "2807387" | "3203744" | "3283915" | "3514170" | "3743372" | "3758181" | "3918781" | "3999818" | "4026615" | "4056295" | "4120549").PN. OR ("4243279").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 22:29

S69	14	("3899229" | "4054344" | "4087145" | "4216857" | "4243279" | "D238401" | "D247794").PN. OR ("D285986").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 22:30
S70	53	("2593998" | "2653072" | "2730423" | "3131829" | "3219400" | "3514170" | "3552817" | "3563624" | "3743372" | "3814489").PN. OR ("3999818").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 22:31
S71	23	(US-20120074022-$ or US-20190225371-$ or US-20070090616-$ or US-20190002004-$ or US-20200029543-$ or US-20170165828-$ or US-20180200875-$ or US-20110139777-$ or US-20180044059-$ or US-20200243925-$).did. or (US-9850029-$ or US-10583962-$ or US-6637707-$ or US-5628443-$ or US-5890613-$ or US-D898320-$ or US-4817809-$ or US-10933501-$ or US-4243279-$ or US-D285986-$ or US-3999818-$ or US-8925752-$).did. or (US-1084360-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 23:22
S72	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 23:22

		US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$				

		or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-D816334-$ or US-D815831-$ or US-D814187-$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$ or US-7367571-$ or US-7263742-$ or US-D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$				

		or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$				

		or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.				
S73	11	S71 not S72	US-PGPUB; USPAT; USOCR	OR	ON	2021/03/11 23:23
S74	1	("20200223585").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/03/11 23:37
S75	50	(US-0014949-$ | US-0031975-$ | US-0039831-$ | US-0069832-$ | US-0123478-$ | US-0139777-$ | US-0152944-$ | US-0224528-$ | US-0229889-$ | US-0346819-$ | US-10603783-$ | US-10703534-$ | US-10750833-$ | US-10793172-$ | US-10829269-$ | US-20100224528-$ | US-20110139777-$ | US-20120152944-$ | US-20140069832-$ | US-20140123478-$ | US-20150014949-$ | US-20180229889-$ | US-20200346819-$ | US-20210031975-$ | US-20210039831-$ | US-4122925-$ | US-4673070-$ | US-5325966-$ | US-5375709-$ | US-5429235-$ | US-5433416-$ | US-6082539-$ | US-6889838-$ | US-7219969-$ | US-7690856-$ | US-8602217-$ | US-8640913-$ | US-D285986-$ | US-D738622-$ | US-D753982-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 02:23
S76	26	("1084360" | "20080121547" | "20100224528" | "20110139665" | "20110155613" | "20140062281" | "20150069962" | "20150274362" | "20170318927" | "3410376" | "3757911" | "3891230" | "4643494" | "5544751" | "5971119" | "6098819" | "6213266" | "6367631" | "6585090" | "8561769" |	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 02:24

		"8590704" | "8602217").PN. OR ("10750833").URPN.				
S77	31	("1084360").URPN.	USPAT	OR	ON	2021/07/18 02:25
S78	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 02:33

		20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$				

		or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-D816334-$ or US-D815831-$ or US-D814187-$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$ or US-7367571-$ or US-7263742-$ or US-D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$ or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or				

		US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-				

		3506321-$ or US-3225865-$ or US-3117692-$).did.				
S79	29	S78 and stand	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 02:34
S80	103	S78 and wheel$4	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 02:35
S81	1	"20060076261".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:02
S82	1	S75 and ko	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:03
S83	8	(US-20200029543-$).did. or (US-10933501-$ or US-D898320-$ or US-8925752-$ or US-D285986-$ or US-4243279-$ or US-3999818-$).did. or (US-1084360-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:03
S84	1	S83 and ko	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:04
S85	186	("10434638" | "20020000440" | "20020171228" | "20030115715" | "20030146589" | "20030184034" | "20030205877" | "20040103494" | "20040195793" | "20040206656" | "20050062244" | "20050104308" | "20050139745" | "20060006770" | "20060027475" | "20060038367" | "20060119060" | "20060186624" | "20060254946" | "20070068757" | "20070090616" | "20070145700" | "20070194543" | "20080104921" | "20080115312" | "20080121547" | "20080134607" | "20080169739" | "20080271280" | "20080277221" | "20080308369" | "20090026901" | "20090071990" | "20090145790" | "20090145866" | "20090145913" | "20090178946" | "20100052276" | "20100139566" | "20100147642" | "20100219193" | "20110073516" | "20110139665" | "20110155613" | "20110181008" | "20110220531" | "20120160886" | "20120180250" |	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:04

		"20120207571" | "20120326406" | "20130024468" | "20130031731" | "20130031732" | "20130121783" | "20130127129" | "20130154218" | "20130223971" | "20140076759" | "20140161518" | "20140166516" | "20150274362" | "20150376917" | "20160023349" | "20160130034" | "20160144500" | "20160168880" | "20170121056" | "20170138382" | "20170165828" | "20170166352" | "20170174392" | "20170217464" | "20170239808" | "20170257958" | "20170266804" | "20170318927" | "20170349013" | "20180044059" | "20180161975" | "20180220758" | "20180290288" | "20190002004" | "20190031222" | "20190039781" | "20190106244" | "20190225371" | "20200055534" | "2042387" | "2430200" | "2970358" | "3117692" | "3506321" | "3974898" | "4168076" | "5035445" | "5105947").PN. OR ("5240264" | "5301829" | "5429260" | "5595228" | "5608603" | "5628443" | "5797617" | "5951037" | "5988473" | "6050660" | "6085925" | "6109627" | "6176559" | "6347847" | "6367631" | "6371320" | "6431580" | "6547347" | "6601930" | "6619772" | "6637707" | "6641013" | "6945546" | "6948691" | "6983946" | "7044484" | "7066475" | "7147243" | "7263742" | "7367571" | "7503569" | "7658887" | "7779764" | "7780026" | "7841144" | "8028845" | "8132819" | "8177463" | "8191910" | "8454033" | "8459495" | "8505729" | "8567796" | "8677661" | "8689396" | "8714355" | "8813960" | "8875888" | "8979100" | "8985922" | "9132543" | "9506489" | "9511491" | "9566990" | "9616562" | "9643629" | "9701443" | "9872562" | "D395533" | "D437669" | "D456972" | "D525789" | "D630851" | "D653832" | "D661858" | "D663952" | "D664354" | "D674605" | "D701696" | "D738106" | "D753394" | "D753395" | "D765974" | "D770179" | "D790221" | "D814187" | "D816334" | "D826510" | "D828671" | "D833744" | "D837515" | "D871013").PN. OR ("D898320").URPN.				

S86	16	("2017/0138382").URPN.	USPAT	OR	ON	2021/07/18 03:06
S87	109	("2708088" | "3878589" | "3915189" | "3931893" | "4450989" | "4461445" | "4858869" | "5026016" | "5035389" | "5078279" | "5344032" | "5356038" | "5433416" | "5435511" | "5452874" | "5765699" | "5915572" | "D329192" | "D386298" | "D386304").PN. OR ("6637707").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:11
S88	20	("1446036" | "3881677" | "5035389" | "5226625" | "5282554" | "5294012" | "5356105" | "6637707" | "6824114").PN. OR ("7837165").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:13
S89	93	("2732159" | "2887233" | "3294355" | "3622116" | "3840261" | "3878589" | "3915189" | "3928894" | "4176580" | "4858869" | "5026016" | "5086958" | "D329192").PN. OR ("5433416").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:23
S90	56	("1537678" | "20060165484" | "2028229" | "2116584" | "2735146" | "2863185" | "3336689" | "3552056" | "3798867" | "4275972" | "4407106" | "4570408" | "5090835" | "5433416" | "5704183" | "6017093" | "6036398" | "6186691" | "6227754" | "6341467" | "6357960" | "6578341" | "6874291" | "6991397" | "7331781" | "7398622" | "D384271").PN. OR ("8147162").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:25
S91	23	("2735146").URPN.	USPAT	OR	ON	2021/07/18 03:26
S92	45	("0594035" | "1356745" | "1787734" | "20030038222" | "2173159" | "2210235" | "2588009" | "3840261" | "3915189" | "4028858" | "4176580" | "4228982" | "4566243" | "4620736" | "5035389" | "5165213" | "5240213" | "5348778" | "5356038" | "5433416" | "5435511" | "5566917" | "5707033" | "5758988" | "5802798" | "6082687" | "6227514" | "6481679").PN. OR ("7007903").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:27
S93	99	("0626684" | "1077792" | "1720309" | "2239978" | "2610014" | "2975578" | "3021105" | "3452954" | "3491820" | "3525493" | "3927315" | "4018341" | "4246710" | "4319731" | "4539766" | "4557064" | "4713899" | "4718626" | "4995182" | "5086958" | "5109992" | "5109993" | "5275367" | "5346166" | "5415370" | "5485930" | "5678795" |	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 03:28

		"5683003" | "5702008" | "5722625" | "5871118" | "D294113" | "D316729").PN. OR ("6082687").URPN.				
S94	2	("594035").URPN.	USPAT	OR	ON	2021/07/18 03:31
S95	631	E04F15/10.cpc.	USPAT	OR	ON	2021/07/18 03:32
S96	378	E04F13/18.cpc.	USPAT	OR	ON	2021/07/18 03:32
S97	67	E04B1/00.cpc.	USPAT	OR	ON	2021/07/18 03:33
S98	378	("2430200").URPN.	USPAT	OR	ON	2021/07/18 19:00
S99	46	(US-20200029543-$ or US-20110139665-$ or US-20200055534-$ or US-20150376917-$ or US-20130031732-$ or US-20100147642-$ or US-20100052276-$ or US-20060076261-$ or US-20180220758-$ or US-20180044059-$ or US-20170138382-$ or US-20140161518-$ or US-20130223971-$ or US-20090145866-$ or US-20070090616-$ or US-20050139745-$).did. or (US-10933501-$ or US-D898320-$ or US-8925752-$ or US-D285986-$ or US-4243279-$ or US-3999818-$ or US-10750833-$ or US-11008136-$ or US-9132543-$ or US-6637707-$ or US-10890207-$ or US-7837165-$ or US-5356105-$ or US-5282554-$ or US-5226625-$ or US-5035389-$ or US-7172164-$ or US-5435511-$ or US-5433416-$ or US-4461445-$ or US-10472117-$ or US-8147162-$ or US-D905545-$ or US-7007903-$ or US-6481679-$ or US-6082687-$).did. or (US-3927315-$ or US-4620736-$).did. or (US-1084360-$ or US-0594035-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 19:59
S100	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 19:59

		20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-				

		0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-D816334-$ or US-D815831-$ or US-D814187-$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-				

		8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$ or US-7367571-$ or US-7263742-$ or US-D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$ or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-				

		0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.				
S101	29	S99 not S100	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 19:59
S102	9	("1084360" | "10933501" | "20200029543" | "3999818" | "4243279" | "8925752" | "D285986" | "D898320").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 20:00
S103	21	S101 not S102	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 20:00
S104	481	(US-20130121783-$ or US-20130068903-$ or US-20130031732-$ or US-20130031731-$ or US-20130024468-$ or US-20120326406-$ or US-20120292213-$ or US-20120207571-$ or US-20120180250-$ or US-20120160886-$ or US-20120074158-$ or US-20110220531-$ or	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 20:02

		US-20110181008-$ or US-20110174939-$ or US-20110155613-$ or US-20110139665-$ or US-20110073516-$ or US-20100219193-$ or US-20100147642-$ or US-20100139566-$ or US-20100052276-$ or US-20090236482-$ or US-20090178946-$ or US-20090145913-$ or US-20090145866-$ or US-20090145790-$).did. or (US-20090127146-$ or US-20090071990-$ or US-20090026901-$ or US-20080308369-$ or US-20080296443-$ or US-20080277221-$ or US-20080271280-$ or US-20080169739-$ or US-20080134607-$ or US-20080121547-$ or US-20080115312-$ or US-20080104921-$ or US-20070194543-$ or US-20070145700-$ or US-20070090616-$ or US-20070068757-$ or US-20060254946-$ or US-20060186624-$ or US-20060119060-$ or US-20060038367-$ or US-20060027475-$ or US-20060006770-$ or US-20050242144-$ or US-20050139745-$ or US-20050104308-$ or US-20050062244-$ or US-20040206656-$).did. or (US-20040195793-$ or US-20040103494-$ or US-20030205877-$ or US-20030184034-$ or US-20030146589-$ or US-20030115715-$ or US-20030094393-$ or US-20020171228-$ or US-20020125072-$ or US-20020000440-$ or US-20200299027-$ or US-20200243925-$ or US-20200165036-$ or US-20200147781-$ or US-20200055534-$ or US-20190225371-$ or US-20190168376-$ or US-20190106244-$ or US-20190039781-$ or US-20190031222-$ or US-20190002004-$ or US-20180290288-$ or US-20180220758-$ or US-20180186513-$ or US-20180161975-$ or US-20180153312-$ or US-20180099405-$).did. or (US-20180044059-$ or US-20170349013-$ or US-20170318927-$ or US-20170266804-$ or US-20170257958-$ or US-20170239808-$ or US-20170217464-$ or US-20170174392-$ or US-20170166352-$ or US-20170165828-$ or US-20170138382-$ or US-20170121056-$ or US-20160221177-$ or US-20160168880-$ or US-20160144500-$ or US-20160130034-$ or US-20160023349-$ or US-20150376917-$ or US-20150274362-$ or US-20150034515-$ or US-20140166516-$ or US-20140161518-$ or US-20140076759-$ or US-20130223971-$ or US-20130154218-$ or US-20130127129-$ or US-20120074022-$).did. or (US-10758065-$ or US-10583962-$ or US-10434638-$ or US-10106180-$ or US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$			

		or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$ or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$).did. or (US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$ or US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$).did. or (US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$ or US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$).did. or (US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$ or US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$).did. or (US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$ or US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D892565-$ or US-D891875-$ or US-D891195-$ or US-D891193-$ or US-D888503-$ or US-D888422-$ or US-D887788-$ or US-D883752-$ or US-D880951-$ or US-D880252-$ or US-D873085-$ or US-D871013-$ or US-D857387-$ or US-D845081-$ or US-D845080-$ or US-D839681-$ or US-D837515-$ or US-D836995-$).did. or (US-D833744-$ or US-D831352-$ or US-D828671-$ or US-D826510-$ or US-D816334-$ or US-D815831-$ or US-D814187-				

		$ or US-9872562-$ or US-D806483-$ or US-D803631-$ or US-9725209-$ or US-9701443-$ or US-D790221-$ or US-9643629-$ or US-D784089-$ or US-9616562-$ or US-9566990-$ or US-D777426-$ or US-9511491-$ or US-9506489-$ or US-D770179-$ or US-D765974-$ or US-D753396-$ or US-D753395-$ or US-D753394-$ or US-9132543-$ or US-D738106-$).did. or (US-D738105-$ or US-8985922-$ or US-8979100-$ or US-8875888-$ or US-8813960-$ or US-8714355-$ or US-8689396-$ or US-D701696-$ or US-8677661-$ or US-8567796-$ or US-8505729-$ or US-8459495-$ or US-8454033-$ or US-8448829-$ or US-D674605-$ or US-D668869-$ or US-D664354-$ or US-D663952-$ or US-D661858-$ or US-8191910-$ or US-8177463-$ or US-8132819-$ or US-D653832-$ or US-D649350-$ or US-8028845-$ or US-D630851-$ or US-7841144-$).did. or (US-7780026-$ or US-7779764-$ or US-7658887-$ or US-7503569-$ or US-7367571-$ or US-7263742-$ or US-D536580-$ or US-7147243-$ or US-D527225-$ or US-D525789-$ or US-7066475-$ or US-7044484-$ or US-6983946-$ or US-6948691-$ or US-6945546-$ or US-6641013-$ or US-6637707-$ or US-6619772-$ or US-6601930-$ or US-6547347-$ or US-6431580-$ or US-D456972-$ or US-6371320-$ or US-6367631-$ or US-6347847-$ or US-6305498-$ or US-D437669-$).did. or (US-6176559-$ or US-6109627-$ or US-6085925-$ or US-6050660-$ or US-D420860-$ or US-5988473-$ or US-D415393-$ or US-5957421-$ or US-5951037-$ or US-5890613-$ or US-5797617-$ or US-5775046-$ or US-D395533-$ or US-5653366-$ or US-5628443-$ or US-5608603-$ or US-5595228-$ or US-5538213-$ or US-D361511-$ or US-5429260-$ or US-D352208-$ or US-5301829-$ or US-5282554-$ or US-D340167-$ or US-5240264-$ or US-D326815-$ or US-5105947-$).did. or (US-D325324-$ or US-5098235-$ or US-D319016-$ or US-5035445-$ or US-4971201-$ or US-4805859-$ or US-4168076-$ or US-3974898-$ or US-D232798-$ or US-3743372-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$ or US-9850029-$).did. or (US-D192092-$ or US-2970358-$ or US-2430200-$ or US-2042387-$ or US-0376917-$ or US-0349013-$ or US-0326406-$ or US-0320243-$ or US-0318927-$ or US-0308369-$ or US-0299027-$ or US-0296443-$ or US-0292213-$ or US-0290288-$				

		or US-0277221-$ or US-0274362-$ or US-0271616-$ or US-0271280-$ or US-0266804-$ or US-0257958-$ or US-0254946-$ or US-0243925-$ or US-0242144-$ or US-0239808-$ or US-0236482-$ or US-0225371-$).did. or (US-0223971-$ or US-0221177-$ or US-0220758-$ or US-0220531-$ or US-0219193-$ or US-0217464-$ or US-0207571-$ or US-0206656-$ or US-0205877-$ or US-0195793-$ or US-0194543-$ or US-0186624-$ or US-0186513-$ or US-0184034-$ or US-0181008-$ or US-0180250-$ or US-0178946-$ or US-0174939-$ or US-0174392-$ or US-0171228-$ or US-0169739-$ or US-0168880-$ or US-0168376-$ or US-0166516-$ or US-0166352-$ or US-0165828-$ or US-0165036-$).did. or (US-0161975-$ or US-0161518-$ or US-0160886-$ or US-0155613-$ or US-0154218-$ or US-0153312-$ or US-0147781-$ or US-0147642-$ or US-0146589-$ or US-0145913-$ or US-0145866-$ or US-0145790-$ or US-0145700-$ or US-0144500-$ or US-0139745-$ or US-0139665-$ or US-0139566-$ or US-0138382-$ or US-0134607-$ or US-0130034-$ or US-0127146-$ or US-0127129-$ or US-0125072-$ or US-0121783-$ or US-0121547-$ or US-0121056-$ or US-0119060-$).did. or (US-0115715-$ or US-0115312-$ or US-0106244-$ or US-0104921-$ or US-0104308-$ or US-0103494-$ or US-0099405-$ or US-0094393-$ or US-0090616-$ or US-0076759-$ or US-0074158-$ or US-0073516-$ or US-0071990-$ or US-0068903-$ or US-0068757-$ or US-0062244-$ or US-0055534-$ or US-0052276-$ or US-0044059-$ or US-0039781-$ or US-0038367-$ or US-0034515-$ or US-0031732-$ or US-0031731-$ or US-0031222-$ or US-0027475-$ or US-0026901-$).did. or (US-0024468-$ or US-0023349-$ or US-0006770-$ or US-0002004-$ or US-0000440-$ or US-D232798-$ or US-3514170-$ or US-3506321-$ or US-3225865-$ or US-3117692-$).did.				
S105	5	S104 and gates	US-PGPUB; USPAT; USOCR	OR	ON	2021/07/18 20:02
S106	71	(US-0001482-$ | US-0015928-$ | US-0025706-$ | US-0060953-$ | US-0094392-$ | US-0127007-$ | US-0151427-$ | US-0155373-$ | US-0176261-$ | US-0187725-$ | US-0213934-$ | US-0267368-$ | US-0310842-$ |	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/30 23:08

		US-1081378-$ | US-10222172-$ | US-10962218-$ | US-10981696-$ | US-11059631-$ | US-2124541-$ | US-2939613-$ | US-20030094392-$ | US-20050015928-$ | US-20080060953-$ | US-20100176261-$ | US-20150151427-$ | US-20150310842-$ | US-20180127007-$ | US-20180213934-$ | US-20190001482-$ | US-20210025706-$ | US-20210155373-$ | US-20210187725-$ | US-20210267368-$ | US-3423786-$ | US-3424334-$ | US-3935613-$ | US-4817237-$ | US-4929973-$ | US-5356038-$ | US-5356105-$ | US-5622296-$ | US-5664292-$ | US-5850996-$ | US-6098858-$ | US-6371424-$ | US-7077372-$ | US-7090085-$ | US-7152752-$ | US-8851282-$ | US-9551367-$ | US-9888752-$ | US-D917977-$ | US-D923935-$).DID.				
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S112	26	("1038331" | "3047157" | "4216857" | "4272795" | "4413867" | "4722034" | "4976350" | "5038235").PN. OR ("5154291").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/30 23:23
S113	8	("3047157").URPN.	USPAT	OR	ON	2021/12/30 23:24
S114	78	("3356325" | "4525052").PN. OR ("4929973").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/30 23:25
S115	12	("10047906" | "10194544" | "10299528" | "10317173" | "3429543" | "4929973" | "5333023" | "9052574" | "9097490" | "9121544" | "9249923").PN. OR ("10711941").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2021/12/30 23:25
S116	1	"5325966".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 17:55
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S118	24	("1472536" | "2709318" | "2803088" | "2843971" | "3521764" | "3584757" | "4109789" | "4144968" | "4391348" | "5325966" | "5607057" | "5649638").PN. OR ("6015046").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 17:55
S119	33	("4619366" | "4936458" | "4960207" | "5325966" | "5332114" | "5544751").PN. OR ("5697500").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 17:56
S120	493	B25H3/023.cpc.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:33
S121	261	B65D21/02.cpc.	US-PGPUB;	OR	ON	2022/01/04 18:33

			USPAT; USOCR			
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S126	35	("1733772" | "2499765" | "3899229").PN. OR ("4216857").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:44
S127	15	("4216857" | "4583640" | "4624383" | "5050755" | "5105962" | "5159156").PN. OR ("6371321").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:45
S128	10	("3760937" | "4216857" | "4741438" | "D220317" | "D238401").PN. OR ("D328972").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:46
S129	31	("1565993" | "2237176" | "2506844" | "2695723" | "2988412" | "3567298" | "3642337").PN. OR ("3760937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:47
S130	18	("3635350" | "3642337" | "3760937" | "3812960" | "3889817" | "3909088").PN. OR ("4098402").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 18:48
S131	7	("3567298").URPN.	USPAT	OR	ON	2022/01/04 18:49
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S133	16	("3552817" | "3904259" | "3974898" | "4269461" | "4285559" | "4410093" |	US-PGPUB;	OR	ON	2022/01/04 18:58

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S140	109	("3468081" | "3668832" | "3836217" | "4003172" | "4095769" | "4243279" | "4413867" | "4423913" | "4577914" | "4768298" | "4867513" | "5046789" | "5267863" | "D334704" | "D337653").PN. OR ("5775046").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:15
S141	118	("0287923" | "1084597" | "1563306" | "20010025460" | "20020054787" | "20020122691" | "20030036314" | "20030044228" | "20040033103" | "20040102132" | "20040121699" | "20040168382" | "20050005556" | "20060104715" | "20060165482" | "20060278772" | "20070006542" | "20070209314" | "20080224470" | "20080280521" | "20080280523" | "20100005752" | "20100059094" | "20110101607" | "20110180350" | "20120299352" | "20140010587" | "20140260083" | "2132757" | "2472363" |	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:15

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S144	75	("0165500" | "0598689" | "2003746" | "2165255" | "2323123" | "2325155" | "2459873" | "2502275" | "2562518" | "2568131" | "2620801" | "2721417" | "3043047" | "3095665" | "3233611" | "3366359" | "3408032" | "3425421" | "3926398" | "4009599" | "4066168" | "4116413" | "4179091" | "4341166" | "4389133" | "4444418" | "4462317" | "4475365" | "4508306" | "4564732" | "4568052" | "4582442" | "4583877" | "4643384" | "4691541" | "4722627" | "4776552" | "4787595").PN. OR ("4925146").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:23
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S148	50	("0609703" | "0984823" | "1348707" | "3074203" | "3663055" | "4012155" | "4019298" | "4438800" | "4504168" | "4548590" | "4550230").PN. OR ("4900090").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 19:30
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S150	8	(("0593330") or ("1182610") or ("1265113") or ("2457002")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/04 19:33
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S154	9	("2004/0149754").URPN.	USPAT	OR	ON	2022/01/04 19:44
S155	2	("1390374").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/04 19:49
S156	49	("1252816" | "1983307" | "3131829" | "3374917" | "3567302" | "3986756" |	US-PGPUB;	OR	ON	2022/01/04 19:52

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S159	38	("2087863" | "2979370" | "3348668" | "3552817" | "3638788" | "3737067" | "3743372" | "3747745" | "3871516" | "3917067").PN. OR ("4026615").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/04 23:22
S160	14	(("1303985") or ("1698578") or ("1726121") or ("2268236") or ("2733112") or ("3000680") or ("3003839")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/04 23:27
S161	11	("2733112").URPN.	USPAT	OR	ON	2022/01/04 23:28
S162	6	(("1308647") or ("2203716") or ("2614016")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/04 23:33
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S164	2	("2169769").URPN.	USPAT	OR	ON	2022/01/04 23:52
S165	5	("2614016").URPN.	USPAT	OR	ON	2022/01/05 00:11
S166	8	(("1331862") or ("1686515") or ("2304020") or ("2386343")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/05 00:12
S167	8	(("1186634") or ("1862609") or ("2083114") or ("2121190")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/05 00:13
S168	12	(("1223641") or ("1242579") or ("1268870") or ("2237176") or ("2281959") or ("2321755")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/05 00:15
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S170	16	(("0512496") or ("1656868") or ("2563094") or ("2752215") or ("2988412") or ("3219400") or ("3401993") or ("3421801")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/05 00:25
S171	2	("2807387").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2022/01/05 11:45
S172	24	("2807387").URPN.	USPAT	OR	ON	2022/01/05 11:45
S173	111	"40".clas. and (shrink and bottle)	US-PGPUB; USPAT; USOCR	OR	ON	2022/01/05 14:19

1/7/2022 9:03:47 PM
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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/132,609	Filing Date 12/23/2020	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $480 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	12/08/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 17	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	SLIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/Theresa OKON/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/08 (09-06)
Approved for use through 03/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: December 8, 2021

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	17/132,609
Filing Date	December 23, 2020
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	WEINERTH, GIDEON R.
Attorney Docket Number	066749-2863

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	495,537	04-18-1893	Westerman	
	A2	1,081,378	12-16-1913	Freeman	
	A3	2,124,541	07-26-1938	Cassey	
	A4	2,939,613	06-07-1960	Herman et al.	
	A5	3,423,786	01-28-1969	Arias, Jr. et al.	
	A6	3,424,334	01-28-1969	Goltz	
	A7	3,935,613	02-03-1976	Kaneko	
	A8	4,817,237	04-04-1989	Murphy	
	A9	4,929,973	05-29-1990	Nakatani	
	A10	5,356,038	10-18-1994	Banks	
	A11	5,356,105	10-18-1994	Andrews	
	A12	5,622,296	04-22-1997	Pirhonen et al.	
	A13	5,664,292	09-09-1997	Chen	
	A14	5,850,996	12-22-1998	Liang	
	A15	6,098,858	08-08-2000	Laugesen	
	A16	6,371,424	04-16-2002	Shaw	
	A17	7,077,372	07-18-2006	Moran	
	A18	7,090,085	08-15-2006	Vicendese et al.	
	A19	7,152,752	12-26-2006	Kurtenbach	
	A20	8,851,282	10-07-2014	Brunner	
	A21	9,551,367	01-24-2017	Shieh	
	A22	9,888,752	02-13-2018	Den Boer et al.	
	A23	10,222,172	03-05-2019	Melville	
	A24	10,962,218	03-30-2021	Plato et al.	
	A25	10,981,696	04-20-2021	Brunner et al.	
	A26	11,059,631	07-13-2021	Brunner et al.	
	A27	2003/0094392	05-22-2003	Meier et al.	
	A28	2005/0015928	01-27-2005	Arsenault et al.	
	A29	2008/0060953	03-13-2008	Ghassan	
	A30	2010/0176261	07-15-2010	Chen et al.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**.

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: December 8, 2021

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known	
Application Number	17/132,609
Filing Date	December 23, 2020
First Named Inventor	Yaron Brunner
Art Unit	3736
Examiner Name	WEINERTH, GIDEON R.
Attorney Docket Number	066749-2863

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant
	A31	2015/0151427	06-04-2015	Ben-Gigi	
	A32	2015/0310842	10-29-2015	Coburn et al.	
	A33	2018/0127007	05-10-2018	Kravchenko	
	A34	2018/0213934	08-02-2018	Wolle et al.	
	A35	2019/0001482	01-03-2019	Wolle et al.	
	A36	2021/0025706	01-28-2021	Millane	
	A37	2021/0155373	05-27-2021	Cai	
	A38	2021/0187725	06-24-2021	Brunner	
	A39	2021/0267368	09-02-2021	Bruins	
	A40	D917,977	05-04-2021	Brunner et al.	
	A41	D923,935	07-06-2021	Brunner et al.	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Application Document Serial Number-Kind Code[2] (*if known*)	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/AIA/22 (10-20)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)	Docket Number (Optional) 066749-2863
Application Number 17/132,609	Filed December 23, 2020
For Utility Assembly and Coupling Mechanism	
Art Unit 3736	Examiner WEINERTH, GIDEON R

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

		Fee	Small Entity Fee	Micro Entity Fee	
☐	One month (37 CFR 1.17(a)(1))	$220	$110	$55	$
☑	Two months (37 CFR 1.17(a)(2))	$640	$320	$160	$ 640
☐	Three months (37 CFR 1.17(a)(3))	$1,480	$740	$370	$
☐	Four months (37 CFR 1.17(a)(4))	$2,320	$1,160	$580	$
☐	Five months (37 CFR 1.17(a)(5))	$3,160	$1,580	$790	$

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☑ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 18-0882.

☐ Payment made via EFS-Web.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ applicant.

☑ attorney or agent of record. Registration number 70,608.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Derek H. Campbell/	December 8, 2021
Signature	Date
Derek H. Campbell	414-298-8374
Typed or printed name	Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☑ * Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	17132609
Filing Date:	23-Dec-2020
Title of Invention:	Utility Assembly and Coupling Mechanism
First Named Inventor/Applicant Name:	Yaron Brunner
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee
Attorney Docket Number:	066749-2863

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 2 months with $0 paid	1252	1	640	640
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
		Total in USD ($)		**900**

Electronic Acknowledgement Receipt	
EFS ID:	44463521
Application Number:	17132609
International Application Number:	
Confirmation Number:	8591
Title of Invention:	Utility Assembly and Coupling Mechanism
First Named Inventor/Applicant Name:	Yaron Brunner
Customer Number:	142078
Filer:	Derek Howard Campbell/Sarah Sesterhenn-Lee
Filer Authorized By:	Derek Howard Campbell
Attorney Docket Number:	066749-2863
Receipt Date:	08-DEC-2021
Filing Date:	23-DEC-2020
Time Stamp:	15:49:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$900
RAM confirmation Number	E2021B8F49583406
Deposit Account	180882
Authorized User	Sarah Sesterhenn-Lee
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		066749-2863_Non-Final_Office_Action_Response.pdf	274494 b88e77cce79c94aaf0cc0b341bdaf4bc076aa0e4	yes	14
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	6	
	Applicant Arguments/Remarks Made in an Amendment		7	14	
Warnings:					
Information:					
2	Transmittal Letter	066749-2863-IDS_Transmittal.pdf	91546 74d9b1516de612a2909e701e9b899e775bc977de	no	3
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	066749-2863-SB08.pdf	134445 86d9f9ee3fb79d4168263e5edfc8cfd1c9614fd5	no	2
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
4	Extension of Time	066749-2863_Petition_for_Extension_of_Time.pdf	122346 303ab74347925eb16a2a6a85dac40b22c8280a5e	no	2
Warnings:					
Information:					

5	Fee Worksheet (SB06)	fee-info.pdf	40640 0253dffab7d88bb1ca300cdb0fb645a398bf4e3d	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	663471	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Atty. Dkt. No. 066749-2863

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Milwaukee Electric Tool Corporation
Title:	Utility Assembly and Coupling Mechanism
Appl. No.:	17/132,609
Filing Date:	December 23, 2020
Examiner:	WEINERTH, GIDEON R.
Art Unit:	3736
Confirmation No:	8591

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.111

This communication is responsive to the Non-Final Office Action dated July 22, 2021, concerning the above-referenced patent application.

Submitted herewith is a request for a two-month extension of time and the associated fees.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this document.

Remarks begin on page 7 of this document.

Please amend the application as follows:

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1015
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-20. (Cancelled)

21. (Currently Amended) A utility module assembly comprising:

a first utility module comprising:

a front face; and

a plurality of female couplers comprising a front row of at least two female couplers aligned with each other in a direction parallel to the front face of the first utility module and a rear row of at least two female couplers aligned with each other in the direction parallel to the front face of the first utility module, each of the female ~~a first~~ couplers comprising a first rib~~, the first rib extends~~ extending in a first direction offset from an upper ~~a first~~ face of the first utility module; and

a second utility module comprising:

a front face; and

a plurality of male couplers comprising a front row of at least two male couplers aligned with each other in a direction parallel to the front face of the second utility module and a rear row of at least two male couplers aligned with each other in the direction parallel to the front face of the second utility module, each of the male ~~a second~~ couplers extending from a bottom ~~a second~~ face of the second utility module, each of the male ~~the second~~ couplers comprising a first tongue offset from the bottom ~~second~~ face of the second utility module, the first tongue configured for arresting engagement between one of the first ribs and the first utility module.

22. (Currently Amended) The utility module assembly of claim 21, wherein a first female coupler of the female couplers and a first male coupler of the male couplers ~~the first coupler and~~

~~the second coupler~~ engage when the first and second utility modules are slid along a sliding path defined by the first rib of the first female coupler and the first tongue of the first male coupler.

23. (Currently Amended) The utility module assembly of claim 22, ~~the first coupler~~ each of the female couplers comprising a second rib~~, the first rib extending in a first direction and the second rib~~ extending in a second direction opposite the first direction.

24. (Currently Amended) The utility module assembly of claim 23, ~~the second coupler~~ each of the male couplers comprising a second tongue, the first tongue extending in a third direction and the second tongue extending in a fourth direction opposite the third direction, the second tongue configured for arresting engagement between one of the second ribs and the first utility module.

25. (Currently Amended) The utility module assembly of claim 21, ~~the second coupler~~ each of the male couplers comprising a second tongue, the first tongue extending in a third direction and the second tongue extending in a fourth direction opposite the third direction.

26. (Currently Amended) The utility module assembly of claim 24, the ~~second utility module~~ plurality of male couplers comprising a ~~third~~ first male coupler and a second male coupler adjacent the ~~second~~ first male coupler, the first tongue of the first male ~~third~~ coupler ~~comprising a third tongue and a fourth tongue, the third tongue~~ extending towards the second tongue of the second male coupler ~~and the fourth tongue extending away from the second coupler~~.

27. (Currently Amended) The utility module assembly of claim 21, wherein the ~~second~~ plurality of male couplers extends from a bottom face of the second utility module.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1017
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

28. (Currently Amended) A coupling platform for a connectable utility module comprising:

a body extending longitudinally in a first direction;

a first rib extending away from the body along a first axis in a second direction perpendicular to the first direction, the first rib configured to arrestingly engage between a first face of a utility module and a first male coupler extending from the first face of the utility module, the first male coupler comprising a first tongue offset from the first face of the utility module; and

a second rib extending away from the body along the first axis in a third direction opposite the second direction and perpendicular to the first direction, the second rib configured to arrestingly engage between the first face of the utility module and a second male coupler extending from the first face of the utility module, the second male coupler comprising a second tongue offset from the first face of the utility module.

29. (Previously Presented) The coupling platform of claim 28, the body extending from a work stand coupled to a wheeled base.

30. (Currently Amended) The coupling platform of claim 28, further comprising:

a third rib extending away from the body along a second axis in a fourth direction parallel to the second direction, the first rib configured to arrestingly engage between the first face of the utility module and a third male coupler extending from the first face of the utility module, the first male coupler comprising a third tongue offset from the first face of the utility module; and

a fourth rib extending away from the body along the second axis in a fifth direction parallel to the third direction, the fourth rib configured to arrestingly engage between the first face of the utility module and a fourth male coupler extending from the first face of the utility module, the fourth male coupler comprising a fourth tongue offset from the first face of the utility module.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1018
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

31. (Currently Amended) A coupler for a connectable utility module comprising:

a body;

a first rib extending away from the body along a first axis in a first direction, the first rib configured to arrestingly engage between a first face of a utility module and a first male coupler extending from the first face of the utility module, the first male coupler comprising a first tongue offset from the first face of the utility module;

a second rib extending away from the body along the first axis in a second direction opposite the first direction, the second rib configured to arrestingly engage between the first face of the utility module and a second male coupler extending from the first face of the utility module, the second male coupler comprising a second tongue offset from the first face of the utility module; and

a latch recess in the body configured to receive a latch in a locked position in which the latch prevents disengagement of the body from the utility module when the first tongue and the first rib are engaged and the second tongue and the second rib are engaged.

32. (Previously Presented) The coupler of claim 31, wherein the first rib is offset from a first recess and the second rib is offset from a second recess.

33. (Previously Presented) The coupler of claim 31, wherein the latch recess is an elongate recess defining a major axis and a minor axis, wherein the major axis of the latch recess is parallel to the first direction and the second direction.

34. (New) The utility module assembly of claim 21,

the second utility module comprising a latch that actuates between a locked position and an unlocked position; and

the first utility module comprising a latch recess configured to receive the latch, in which the latch prevents disengagement of the first utility module from the second utility module when the latch is in the locked position and one or more of the male couplers are engaged with one or more of the female couplers.

35. (New) The coupling platform of claim 28, wherein the second male coupler is distinct from the first male coupler.

36. (New) The coupling platform of claim 30, wherein the fourth male coupler is distinct from the third male coupler.

37. (New) The coupler of claim 31, wherein the second male coupler is distinct from the first male coupler.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1020
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

REMARKS

This reply is intended to be completely responsive to the Non-Final Office Action dated July 22, 2021.

Status

Claims 21-33 are pending in this application. Claims 21-33 were rejected.

With this amendment, claims 21-28 and 30-31 are amended, and new claims 34-37 are being added.

Applicant believes that each of the rejections raised by the Examiner has been addressed and the application is in condition for allowance. Reconsideration and allowance of the application is respectfully requested.

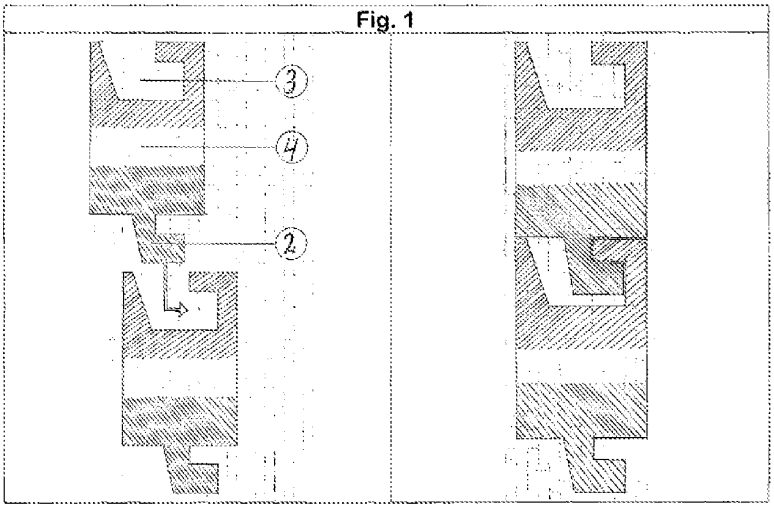
Claim Rejections - 35 U.S.C. § 102(a)(1)

On pages 2-4 of the Office Action, the Examiner rejected claims 21, 22, 27-29, 31-33 under 35 U.S.C. § 102(a)(1) as being anticipated by Madsen, U.S. Publication No. 2011/0139665.

A. Independent Claim 21

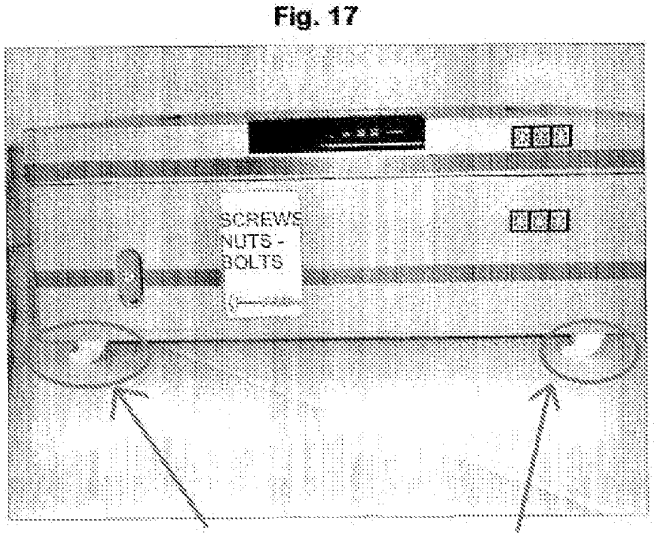
Claim 21 as amended recites "a second plurality of male couplers comprising a front row of at least two male couplers aligned with each other in a direction parallel to the front face of the second utility module and a rear row of at least two first couplers aligned with each other in the direction parallel to the front face of the second utility module." Applicant submits that Madsen fails to disclose a front row and rear row of male couplers as recited in claim 21. To disclose couplers with ribs in Madsen, the Office Action cites to bottom bridge 2 in Madsen. Office Action, pages 2-3. For reference, FIG. 1 in Madsen is copied below.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1021
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400



Madsen, FIG. 1

Applicant submits that Madsen fails to disclose male couplers arranged in a front row and a rear row as recited in claim 1 as amended. Instead, at most Madsen discloses two couplers having projections that are aligned and extend in the same direction. For reference, FIG. 17 in Madsen is copied below.



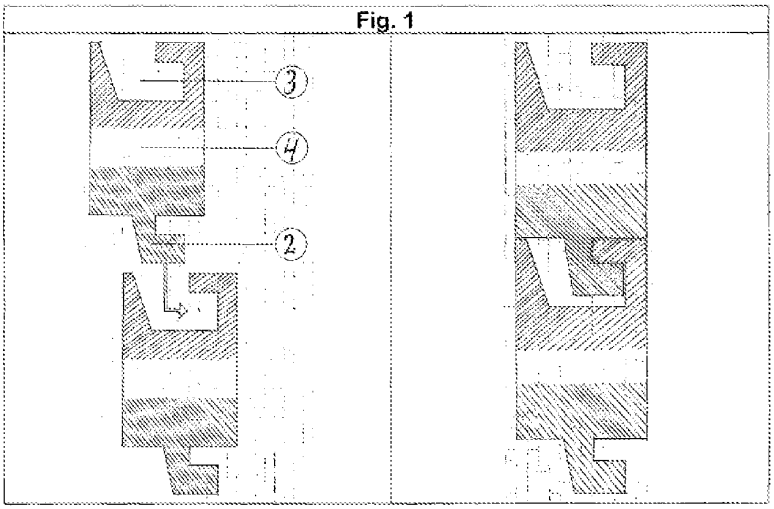
Madsen, FIG. 17 (annotated).

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1022
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Accordingly, Applicant respectfully asserts that independent claim 21 and related dependent claims 22 and 27 are not anticipated by Madsen under 35 U.S.C. § 102(a)(1).

B. Independent Claim 28

Claim 28 as amended recites "a first rib extending away from the body along a first axis in a second direction" and "a second rib extending away from the body along the first axis in a third direction opposite the second direction." To disclose the "first rib," the Office Action cites to Madsen. Office Action, page 3. To disclose the "second rib," the Office Action states that Madsen discloses a second rib "below the utility module." Office Action, page 3. For reference, FIG. 1 in Madsen is copied below.

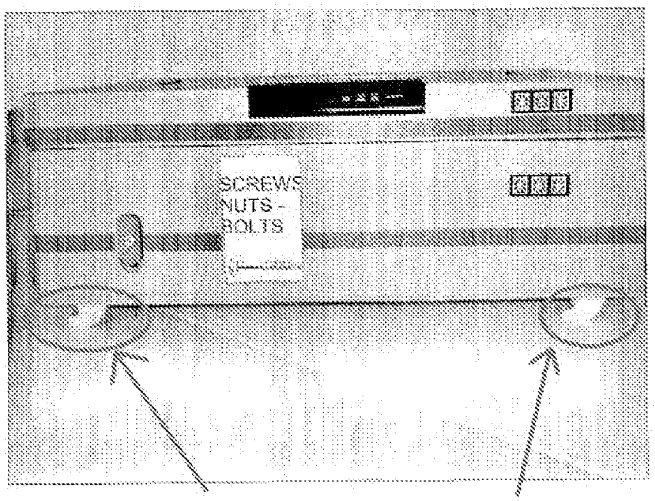


Madsen, FIG. 1

Applicant respectfully submits that Madsen fails to disclose a "a second rib extending away from the body along the first axis in a third direction opposite the second direction," which claim 28 as amended recites. In particular, Madsen does not appear to disclose a first rib and a second rib each extending along the same axis in opposite directions. For reference, FIG. 17 in Madsen is copied below.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1023
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Fig. 17



Madsen, FIG. 17.

Madsen discloses two ribs each extending along a single axis in the same direction. This is different than "a second rib extending away from the body along the first axis in a third direction opposite the second direction," which claim 28 as amended recites.

Accordingly, Applicant respectfully asserts that independent claim 28 and related dependent claim 29 are not anticipated by Madsen under 35 U.S.C. § 102(a)(1).

C. Independent Claim 31

Claim 31 as amended recites "a first rib extending away from the body along a first axis in a first direction" and "a second rib extending away from the body along the second axis in a second direction opposite the first direction." For similar reasons as discussed above with respect to claim 28, Applicant submits that Madsen does not anticipate claim 31 as amended.

Accordingly, Applicant respectfully asserts that independent claim 31 and related dependent claims 32-33 are not anticipated by Madsen under 35 U.S.C. § 102(a)(1).

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1024
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

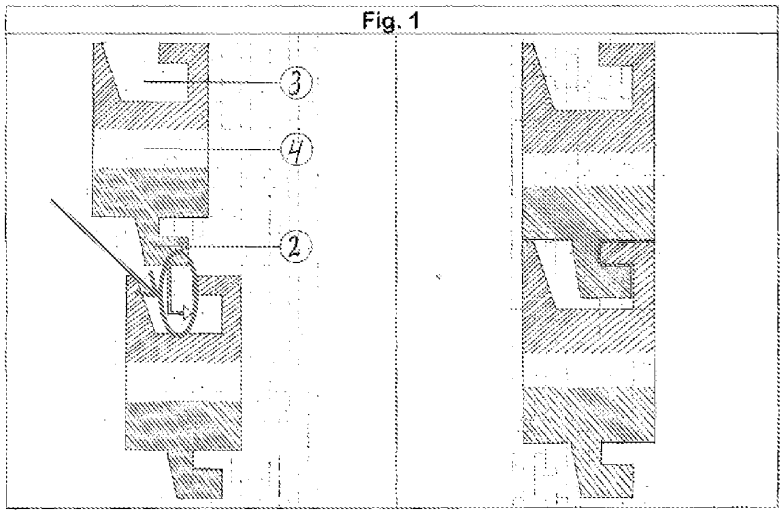
Claim Rejections - 35 U.S.C. § 103

I. Rejection of claim 30 under 35 U.S.C. § 103 as being unpatentable over Madsen

On page 4 of the Office Action, the Examiner rejected claim 30 under 35 U.S.C. § 103 as being unpatentable over Madsen. Applicant respectfully traverses the rejection of claim 30 as amended.

For reference, claim 30 as amended recites "a third rib extending away from the body along a second axis in a fourth direction parallel to the second direction" and "a fourth rib extending away from the body along the second axis in a fifth direction parallel to the third direction." To reject claim 30 as originally filed, the Examiner submitted that a person having skill in the art would be capable of duplicating the ribs and couplers as an obvious variation to provide a more secure coupling. Office Action, page 5.

Applicant respectfully submits that modifying Madsen to include "a fourth rib extending away from the body along the second axis in a fifth direction parallel to the third direction" which claim 30 as amended recites, would render Madsen inoperable for its intended purpose. FIG. 1 in Madsen is copied below.



Madsen, FIG. 1 (annotated).

As can be seen above in FIG. 1, Madsen relies on bottom bridges 2 extending in the same direction so that the upper storage container can be coupled to the lower storage container. Accordingly, if Madsen were modified such that two separate bottom bridges 2 each extend in opposing directions along the same axis, Applicant submits that Madsen would be rendered inoperable for its intended purpose.

Accordingly, Applicant respectfully asserts that claim 30 is patentable over Madsen under 35 U.S.C. § 103.

II. Rejection of claims 23-26 under 35 U.S.C. § 103 as being unpatentable over Madsen and Gates

On pages 4-6 of the Office Action, the Examiner rejected claims 23-26 under 35 U.S.C. § 103 as being unpatentable over Madsen and Gates, U.S. Patent No. 6,637,707.

Claims 23-26 depend from claim 21. Applicant respectfully submits that Gates does not render the deficiencies of Madsen with respect to claim 21. In particular, Gates does not disclose, teach or suggest "a second plurality of male couplers comprising a front row of at least two male couplers aligned with each other in a direction parallel to the front face of the second utility module and a rear row of at least two first couplers aligned with each other in the direction parallel to the front face of the second utility module," which independent claim 21 recites as amended.

Accordingly, Applicant respectfully asserts that claims 23-26 are patentable over Madsen and Gates under 35 U.S.C. § 103 for at least the same reasons as exist for independent claim 21, from which claims 23-26 depend.

New Claims

Applicant has added new dependent claims 34-37 to present claims of varying scope. No new matter has been added. Exemplary support for the new claims may be found at paragraphs [0225], [0227] and FIGS. 8B, 10A-10B, and 12C of the application as originally filed. New

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1026
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

claim 34 depends from independent claim 21, new claims 35-36 depend from claim 28, and new claim 37 depends from claim 31. Accordingly, Applicant respectfully asserts that new claims 34-37 are patentable for at least the same reasons set forth above regarding independent claims 21, 28, 31.

Conclusion

Applicant believes that the present application is in condition for allowance. Favorable reconsideration of the application is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

It should be noted that, for the sake of clarity and simplicity, Applicant's remarks have focused on the rejections of the independent claims set forth in the Office Action with the understanding that the dependent claims are patentable for at least the same reasons as the independent claims. Further, in addressing the Examiner's rejections, Applicant's remarks have set forth only some of the available arguments for patentability of the rejected claims. Applicant expressly reserves the right to argue the patentability of all claims separately and to provide new, different, and/or additional arguments for patentability not set forth herein, including, but not limited to, the failure of cited references to disclose, teach, or suggest other elements of the claims, the lack of motivation to combine cited references, teachings away from the combination of cited references, the failure of references to qualify as prior art or improper combination of the cited references, in this or any future proceedings.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 18-0882. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 18-0882.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1027
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Respectfully submitted,

Date December 8, 2021

By /Derek H. Campbell/

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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1028
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Milwaukee Electric Tool Corporation et al.
Title:	Utility Assembly and Coupling Mechanism
Appl. No.:	17/132,609
Filing Date:	December 23, 2020
Examiner:	WEINERTH, GIDEON R
Art Unit:	3736
Confirmation Number:	8591

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Submitted herewith on Form PTO/SB/08 is a listing of the documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR § 1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1029
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(c), before the mailing date of any of a final action under 37 CFR § 1.113, a notice of allowance under 37 CFR §1.311, or an action that otherwise closes prosecution in the application.

STATEMENT UNDER 37 CFR 1.97(e)

Per 37 CFR §1.97(e)(2), the undersigned hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in the 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

FEES

The IDS Fee of $260.00 under 37 CFR 1.17(p) is being paid via Deposit Account No. 18-0882 via EFS-web.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 18-0882. If any extensions of time are needed for timely acceptance of papers submitted herewith, applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 18-0882.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1030
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

Respectfully submitted,

Date December 8, 2021

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Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1031
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/132,609	12/23/2020	Yaron Brunner	066749-2863	8591

142078 7590 07/22/2021

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1000 NORTH WATER STREET
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MILWAUKEE, WI 53202

EXAMINER	
WEINERTH, GIDEON R	

ART UNIT	PAPER NUMBER
3736	

NOTIFICATION DATE	DELIVERY MODE
07/22/2021	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPAdmin@reinhartlaw.com

Office Action Summary	Application No. 17/132,609	Applicant(s) Brunner et al.	
	Examiner GIDEON R WEINERTH	Art Unit 3736	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 09 June 2021.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 21-33 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 21-33 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 23 December 2020 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 6/9/2021.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Milwaukee Electric Tool, Keter Home and Garden Products – Ex. 2005 - Page 1033
Klein Tools v. Milwaukee Electric Tool, Keter Home and Garden Products
IPR2024-01400

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

4. Claims 21, 22, 27-29, 31-33 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Madsen (US 2011/0139665).

5. Regarding Claim 21, Madsen discloses a utility module assembly comprising: a first utility module (4) comprising a first coupler comprising a first rib (2), the first rib extends in a first direction offset from a first face of the first utility module. Madsen also discloses a second utility module comprising a second coupler extending from a second face of the second utility module, the second coupler comprising a first tongue offset from the second face of the second utility module, the first tongue configured for

arresting engagement between the first rib and the first utility module (Paragraphs 50-51).

6. Regarding Claim 22, Madsen discloses the first coupler and the second coupler engage when the first and second utility modules are slid along a sliding path defined by the first rib and the first tongue.

7. Regarding Claim 27, Madsen discloses the second coupler extends from a bottom face of the second utility module.

8. Regarding Claim 28, Madsen discloses a coupling platform for a connectable utility module comprising a body extending longitudinally in a first direction a first rib extending away from the body in a second direction perpendicular to the first direction. The first rib is configured to arrestingly engage between a first face of a utility module and a first male coupler extends from the first face of the utility module, the first male coupler comprising a first tongue offset from the first face of the utility module. A second rib extends away from the body in a third direction opposite the second direction (below the utility module) and perpendicular to the first direction. The second rib is configured to arrestingly engage between the first face of the utility module and a second male coupler extending from the first face of the utility module, the second male coupler comprising a second tongue offset from the first face of the utility module.

9. Regarding Claim 29, Madsen discloses the body extends from a work stand (a surface of a bottommost module) coupled to a wheeled base (20 – Figure 9).

10. Regarding Claim 31, Madsen discloses a coupler for a connectable utility module comprising a body, a first rib extending away from the body in a first direction, the first rib configured to arrestingly engage between a first face of a utility module and a first

male coupler extending from the first face of the utility module. The first male coupler comprises a first tongue offset from the first face of the utility module, a second rib extending away from the body in a second direction opposite the first direction, the second rib configured to arrestingly engage between the first face of the utility module and a second male coupler extending from the first face of the utility module. The second male coupler is a second tongue offset from the first face of the utility module. Madsen also discloses a latch recess in the body configured to receive a latch (9) in a locked position in which the latch prevents disengagement of the body from the utility module when the first tongue and the first rib are engaged and the second tongue and the second rib are engaged.

11. Regarding Claim 32, Madsen discloses the first rib is offset from a first recess and the second rib is offset from a second recess.

12. Regarding Claim 33, Madsen discloses the latch recess is an elongate recess defining a major axis and a minor axis, wherein the major axis of the latch recess is parallel to the first direction and the second direction.

Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

14. The factual inquiries for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

15. Claim 30 is rejected under 35 U.S.C. 103 as being unpatentable over Madsen (US 2011/0139665).

16. Regarding Claim 30, Madsen discloses in Figure 17 a plurality of coupling ribs. A person having ordinary skill in the art before the effective filing date of the claimed invention would be capable of duplicating both the ribs and couplers as an obvious variation in order to provide a more secure coupling. Please see MPEP 2144.04 Section VI Part B which discusses the obvious type modification of duplicating prior art components.

17. Claims 23-26 are rejected under 35 U.S.C. 103 as being unpatentable over Madsen (US 2011/0139665) as applied to claims 21 and 28 above, and further in view of Gates (US 6637707).

18. Regarding Claim 23, Madsen discloses the limitations of Claims 21 and 28 as discussed above. Madsen does not disclose the first coupler comprising a second rib, the first rib extending in a first direction and the second rib extending in a second direction opposite the first direction.

19. Gates discloses a similar coupling for a utility holder wherein a first coupler (32) comprises a first rib and a second rib extending in opposite directions as opposite sides

of the male dovetail rib (34). Madsen and Gates are analogous inventions in the art of sliding removable couplers for utility modules.

20. It would have been obvious for one having ordinary skill in the art before the effective filing date of the claimed invention to modify the single first coupler rib of Madsen with the flared rib dovetail coupler of Gates in order to provide a mating connection that tightly engages and rigidly holds even while in a vertical orientation (Col. 3 Lines 21-33).

21. Regarding Claims 24 and 25, Gates discloses a second coupler (24) comprising a second tongue, the first tongue extending in a third direction and the second tongue extending in a fourth direction opposite the third direction, the second tongue configured for arresting engagement between the second rib and the first utility module at dovetail angled surfaces 26.

22. Regarding Claim 26, as shown in Madsen Figure 17, a plurality of couplers may be implemented in the utility modules. These couplers may be duplicated as an obvious variation and may comprise a plurality of the couplers seen in Gates in order to provide a more secure coupling. Please see MPEP 2144.04 Section VI Part B which discusses the obvious type modification of duplicating prior art components.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GIDEON R. WEINERTH whose telephone number is