		20130072828-$ | US-20130077175-$ | US-20130143519-$ | US-20130201440-$ | US-20130308089-$ | US-20140132913-$ | US-20140176902-$ | US-20140198293-$ | US-20140268008-$ | US-20140268013-$ | US-20140268017-$ | US-20140361185-$ | US-20150085245-$ | US-20150230988-$ | US-20150253590-$ | US-20160246075-$ | US-20160302992-$ | US-20170068117-$ | US-20170074721-$ | US-20170090219-$ | US-20170131575-$ | US-20170146829-$ | US-20170303187-$ | US-20180314079-$ | US-20180335650-$ | US-20180348050-$ | US-20190033623-$ | US-20190187492-$ | US-20190272800-$ | US-20190278110-$ | US-20190285913-$).DID.					
L615	381	(US-20190310132-$ | US-20190318589-$ | US-20190387351-$ | US-20200012127-$ | US-20200218094-$ | US-20200364992-$ | US-3060308-$ | US-3597054-$ | US-3710115-$ | US-3858001-$ | US-3883701-$ | US-4165487-$ | US-4254451-$ | US-4283127-$ | US-4322585-$ | US-4348664-$ | US-4389217-$ | US-4526473-$ | US-4535244-$ | US-4608492-$ | US-4683587-$ | US-4751691-$ | US-4757714-$ | US-4773095-$ | US-4806011-$ | US-4822160-$ | US-4822161-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 04:40 PM

		4851686-$ | US- 4856086-$ | US- 4859047-$ | US- 4882769-$ | US- 4904078-$ | US- 4942629-$ | US- 4962469-$ | US- 4967268-$ | US- 4985632-$ | US- 5008548-$ | US- 5015086-$ | US- 5020150-$ | US- 5026151-$ | US- 5036311-$ | US- 5050150-$ | US- 5064410-$ | US- 5093576-$ | US- 5106179-$ | US- 5148023-$ | US- 5151600-$ | US- 5161250-$ | US- 5172256-$ | US- 5264877-$ | US- 5306917-$ | US- 5353378-$ | US- 5359370-$ | US- 5359444-$ | US- 5367345-$ | US- 5379464-$ | US- 5382986-$ | US- 5394005-$ | US- 5452026-$ | US- 5452480-$ | US- 5455637-$ | US- 5455640-$ | US- 5457751-$ | US- 5463428-$ | US- 5500532-$ | US- 5510961-$ | US- 5513384-$ | US- 5533130-$ | US- 5541641-$ | US- 5581090-$ | US- 5585871-$ | US- 5589398-$ | US- 5590417-$ | US- 5606743-$ | US- 5608808-$ | US- 5634201-$ | US- 5671035-$ | US- 5686727-$ | US- 5694475-$ | US- 5715323-$ | US- 5737436-$ | US- 5818381-$ | US- 5835185-$ | US- 5900720-$ | US- 5903395-$ | US-					

		5923398-$ | US- 5941837-$ | US- 5946071-$ | US- 5949516-$ | US- 5966746-$ | US- 5980037-$ | US- 5988812-$ | US- 5991085-$ | US- 5992996-$ | US- 5995592-$ | US- 6010216-$ | US- 6013919-$ | US- 6028627-$ | US- 6046455-$ | US- 6060321-$ | US- 6061580-$ | US- 6091546-$ | US- 6091832-$ | US- 6115177-$ | US- 6132681-$ | US- 6145983-$ | US- 6154552-$ | US- 6176576-$ | US- 6225897-$ | US- 6231181-$ | US- 6236969-$ | US- 6243578-$ | US- 6259367-$ | US- 6270466-$ | US- 6292213-$ | US- 6292685-$ | US- 6301367-$ | US- 6307526-$ | US- 6343858-$ | US- 6349001-$ | US- 6349422-$ | US- 6409335-$ | US- 6409338-$ | US- 6426719-$ | US- 6431705-$ | US- 6474816-$ | US- 6478736-$ | US- 6506142-$ | US- 6511175-$ | US- 6513532-$ | US- 6517203-$ | US- 6539336-$ | US- 6542081-$ | US- 6546101-$ | US- 6554763-$ | US- 6582075-$ | US- 6619799-$ | US- 6629076-$ | US- 6729726-$ | US- 6736759-$ | US- 6764194-$ | US- 6769767-$ | US- 6788309-$ | US-					

		6792401-$ | US- 6816314-$ | US- 6824265-$ | US- 6857741-$ | US- 6871951-$ | US- 6879930-$ | US- 6912386-$ | US- 6929365-$ | US- 6932090-$ | US- 6947219-$ | US- 7004582-$ | US- 7013009-$ | US- 7023594-$ | US- 7030902-$ | US- 7031667-$ | US- 7033025-$ | US- 7059717-$ | US- 7073905-$ | US- 7079876-$ | US- 7123215-$ | US- 7192136-$ | US- 7255437-$ | US- 7265358-$ | US- 7274292-$ | US- 7289767-$ | US- 7312699-$ | US- 7331666-$ | US- 7376238-$ | US- 7380936-$ | US- 7401918-$ | US- 7405801-$ | US- 7429965-$ | US- 7438409-$ | US- 7438410-$ | US- 7445332-$ | US- 7481531-$ | US- 7500746-$ | US- 7500747-$ | US- 7512414-$ | US- 7517083-$ | US- 7527374-$ | US- 7543934-$ | US- 7581833-$ | US- 7621634-$ | US- 7648236-$ | US- 7677723-$ | US- 7760898-$ | US- 7771046-$ | US- 7792552-$ | US- 7806525-$ | US- 7922321-$).DID.				
L616	211	(US-3192826-$ | US- 3216308-$ | US- 3229580-$ | US- 3524710-$ | US- 3610825-$ | US- 3787109-$ | US- 3885095-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2022/09/26 04:40 PM

		3915548-$ | US- 3923370-$ | US- 3936605-$ | US- 3940204-$ | US- 4052073-$ | US- 4082432-$ | US- 4195915-$ | US- 4218111-$ | US- 4447128-$ | US- 4550984-$ | US- 4649434-$ | US- 4664475-$ | US- 4665385-$ | US- 4722601-$ | US- 4751691-$ | US- 4753514-$ | US- 4799765-$ | US- 4806001-$ | US- 4806011-$ | US- 4818048-$ | US- 4826287-$ | US- 4852988-$ | US- 4853306-$ | US- 4867551-$ | US- 4869575-$ | US- 4884137-$ | US- 4961626-$ | US- 4968117-$ | US- 4973132-$ | US- 4973139-$ | US- 4988183-$ | US- 5003300-$ | US- 5013134-$ | US- 5028119-$ | US- 5044709-$ | US- 5050962-$ | US- 5053755-$ | US- 5129716-$ | US- 5138470-$ | US- 5162828-$ | US- 5212471-$ | US- 5214425-$ | US- 5231379-$ | US- 5281957-$ | US- 5281960-$ | US- 5309169-$ | US- 5320538-$ | US- 5325386-$ | US- 5334991-$ | US- 5348477-$ | US- 5359669-$ | US- 5367345-$ | US- 5369415-$ | US- 5381267-$ | US- 5384654-$ | US- 5392158-$ | US- 5416876-$ | US- 5446507-$ | US-	IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

		5455591-$ | US- 5459612-$ | US- 5469185-$ | US- 5491510-$ | US- 5506728-$ | US- 5519410-$ | US- 5537253-$ | US- 5539578-$ | US- 5576887-$ | US- 5579148-$ | US- 5583590-$ | US- 5585871-$ | US- 5589846-$ | US- 5596451-$ | US- 5606743-$ | US- 5610765-$ | US- 5626410-$ | US- 5629790-$ | US- 5648789-$ | US- 5653751-$ | US- 5654827-$ | US- 5654828-$ | US- 5671037-$ | US- 5673139-$ | US- 5682173-$ | US- 5699194-$ | US- 5712649-$ | US- 5717479-$ | US- 5719588-$ | US- 5744788-$ | US- 5751493-$ | US- 5808589-$ | US- 5815326-$ | US- 5886822-$ | US- 5943171-$ | US- 5973845-$ | US- 5991103-$ | US- 6005720-$ | US- 6023372-$ | US- 6081304-$ | US- 6091546-$ | US- D195365-$ | US- RE28847-$).DID.					
L617	383	(US-10042186-$ | US- 10060790-$ | US- 10061144-$ | US- 10310296-$ | US- 10345625-$ | US- 10359311-$ | US- 10359459-$ | US- 10624790-$ | US- 10777048-$ | US- 11042045-$ | US- 1255265-$ | US- 1917745-$ | US- 2249572-$ | US- 2638532-$ | US- 2794085-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2022/09/26 04:40 PM

		2818511-$ | US- 2830132-$ | US- 2874230-$ | US- 2904670-$ | US- 3060308-$ | US- 3597054-$ | US- 3710115-$ | US- 3858001-$ | US- 3883701-$ | US- 4165487-$ | US- 4254451-$ | US- 4283127-$ | US- 4322585-$ | US- 4348664-$ | US- 4389217-$ | US- 4526473-$ | US- 4535244-$ | US- 4608492-$ | US- 4683587-$ | US- 4751691-$ | US- 4757714-$ | US- 4773095-$ | US- 4806011-$ | US- 4822160-$ | US- 4822161-$ | US- 4851686-$ | US- 4856086-$ | US- 4859047-$ | US- 4882769-$ | US- 4904078-$ | US- 4942629-$ | US- 4962469-$ | US- 4967268-$ | US- 4985632-$ | US- 5008548-$ | US- 5015086-$ | US- 5020150-$ | US- 5026151-$ | US- 5036311-$ | US- 5050150-$ | US- 5064410-$ | US- 5093576-$ | US- 5106179-$ | US- 5148023-$ | US- 5151600-$ | US- 5161250-$ | US- 5172256-$ | US- 5264877-$ | US- 5306917-$ | US- 5353378-$ | US- 5359370-$ | US- 5359444-$ | US- 5367345-$ | US- 5379464-$ | US- 5382986-$ | US- 5394005-$ | US- 5452026-$ | US- 5452480-$ | US-	IBM_TDB)				

		5455637-$ | US- 5455640-$ | US- 5457751-$ | US- 5463428-$ | US- 5500532-$ | US- 5510961-$ | US- 5513384-$ | US- 5533130-$ | US- 5541641-$ | US- 5581090-$ | US- 5585871-$ | US- 5589398-$ | US- 5590417-$ | US- 5606743-$ | US- 5608808-$ | US- 5634201-$ | US- 5671035-$ | US- 5686727-$ | US- 5694475-$ | US- 5715323-$ | US- 5737436-$ | US- 5818381-$ | US- 5835185-$ | US- 5900720-$ | US- 5903395-$ | US- 5923398-$ | US- 5941837-$ | US- 5946071-$ | US- 5949516-$ | US- 5966746-$ | US- 5980037-$ | US- 5988812-$ | US- 5991085-$ | US- 5992996-$ | US- 5995592-$ | US- 6010216-$ | US- 6013919-$ | US- 6028627-$ | US- 6046455-$ | US- 6060321-$ | US- 6061580-$ | US- 6091546-$ | US- 6091832-$ | US- 6115177-$ | US- 6132681-$ | US- 6145983-$ | US- 6154552-$ | US- 6176576-$ | US- 6225897-$ | US- 6231181-$ | US- 6236969-$ | US- 6243578-$ | US- 6259367-$ | US- 6270466-$ | US- 6292213-$ | US- 6292685-$ | US- 6301367-$ | US- 6307526-$ | US-					

		6343858-$ | US- 6349001-$ | US- 6349422-$ | US- 6409335-$ | US- 6409338-$ | US- 6426719-$ | US- 6431705-$ | US- 6474816-$ | US- 6478736-$ | US- 6506142-$ | US- 6511175-$ | US- 6513532-$ | US- 6517203-$ | US- 6539336-$ | US- 6542081-$ | US- 6546101-$ | US- 6554763-$ | US- 6582075-$ | US- 6619799-$ | US- 6629076-$ | US- 6729726-$ | US- 6736759-$ | US- 6764194-$ | US- 6769767-$ | US- 6788309-$ | US- 6792401-$ | US- 6816314-$ | US- 6824265-$ | US- 6857741-$ | US- 6871951-$ | US- 6879930-$ | US- 6912386-$ | US- 6929365-$ | US- 6932090-$ | US- 6947219-$ | US- 7004582-$ | US- 7013009-$ | US- 7023594-$ | US- 7030902-$ | US- 7031667-$ | US- 7033025-$ | US- 7059717-$ | US- 7073905-$ | US- 7079876-$ | US- 7123215-$ | US- 7192136-$ | US- 7255437-$ | US- 7265358-$ | US- 7274292-$ | US- 7289767-$ | US- 7312699-$ | US- 7331666-$ | US- 7376238-$ | US- 7380936-$ | US- 7401918-$ | US- 7405801-$ | US- 7429965-$ | US- 7438409-$ | US-					

		7438410-$ | US-7445332-$ | US-7481531-$ | US-7500746-$ | US-7500747-$ | US-7512414-$).DID.					
L618	850	614 615 616 617	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 04:41 PM
L619	41	618 AND 45	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 04:41 PM
L620	28	618 AND 47	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 04:42 PM
L621	2	"20050278446"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	OR	ON	ON	2022/09/26 05:13 PM

			CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L622	12	"2005167902"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 05:13 PM
L623	3	"20040160573"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 05:13 PM
L624	3	"20050264752"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK,	OR	ON	ON	2022/09/26 05:13 PM

			TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L625	11	"20040000733"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 05:13 PM
L626	3	"20050201585"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 05:13 PM
L627	2	"20070248238"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 05:13 PM
L628	3	"20040156012"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2022/09/26 05:15 PM

			EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L629	342	(US-10042186-$ | US-10045732-$ | US-10108984-$ | US-10123732-$ | US-10180572-$ | US-10215568-$ | US-10227063-$ | US-10254856-$ | US-10276028-$ | US-10310296-$ | US-10310597-$ | US-10345625-$ | US-10359459-$ | US-10448867-$ | US-10463300-$ | US-10466491-$ | US-10466510-$ | US-10469916-$ | US-10473950-$ | US-10561376-$ | US-10613355-$ | US-10617342-$ | US-10624790-$ | US-10649220-$ | US-10663740-$ | US-10678322-$ | US-10684478-$ | US-10684687-$ | US-10686972-$ | US-10690936-$ | US-10722128-$ | US-10742965-$ | US-10777048-$ | US-10824253-$ | US-10831316-$ | US-10853589-$ | US-10908421-$ | US-10997943-$ | US-11042045-$ | US-11061252-$ | US-11086147-$ | US-11115074-$ | US-11137626-$ | US-11138301-$ | US-11156856-$ | US-11204512-$ | US-1255265-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 05:34 PM

		1917745-$ | US- 20020021407-$ | US- 20020081982-$ | US- 20020090103-$ | US- 20020098877-$ | US- 20030022690-$ | US- 20030032449-$ | US- 20030226978-$ | US- 20040096078-$ | US- 20050230596-$ | US- 20050248719-$ | US- 20050278446-$ | US- 20060034478-$ | US- 20060269079-$ | US- 20070186330-$ | US- 20070258040-$ | US- 20070270663-$ | US- 20070271116-$ | US- 20080062338-$ | US- 20080144854-$ | US- 20080273166-$ | US- 20090156128-$ | US- 20090201460-$ | US- 20120002160-$ | US- 20120105740-$ | US- 20120108215-$ | US- 20120176580-$ | US- 20120194550-$ | US- 20120249797-$ | US- 20130072828-$ | US- 20130143519-$ | US- 20130169513-$ | US- 20140176902-$ | US- 20140198293-$ | US- 20150309316-$ | US- 20150309534-$ | US- 20160187651-$ | US- 20160223832-$ | US- 20160239985-$ | US- 20190278110-$ | US- 20190285913-$ | US- 20200029140-$ | US- 20220011603-$ | US- 2249572-$ | US- 2638532-$ | US- 2794085-$ | US- 2818511-$ | US- 2830132-$ | US- 2874230-$ | US- 2904670-$ | US- 3060308-$ | US- 3597054-$ | US- 3710115-$ | US- 3858001-$ | US- 3883701-$ | US- 4165487-$ | US- 4254451-$ | US- 4283127-$ | US-					

		4322585-$ | US- 4348664-$ | US- 4389217-$ | US- 4526473-$ | US- 4535244-$ | US- 4608492-$ | US- 4683587-$ | US- 4751691-$ | US- 4757714-$ | US- 4806011-$ | US- 4822160-$ | US- 4822161-$ | US- 4851666-$ | US- 4851686-$ | US- 4856086-$ | US- 4859047-$ | US- 4882769-$ | US- 4962469-$ | US- 4967268-$ | US- 4985632-$ | US- 5008548-$ | US- 5015086-$ | US- 5020150-$ | US- 5026151-$ | US- 5064410-$ | US- 5093576-$ | US- 50963103-$ | US- 5151600-$ | US- 5161250-$ | US- 5172256-$ | US- 5264877-$ | US- 52756503-$ | US- 5306917-$ | US- 5353378-$ | US- 5359444-$ | US- 5367345-$ | US- 5379464-$ | US- 5382986-$ | US- 5394005-$ | US- 5452026-$ | US- 5452480-$ | US- 5455637-$ | US- 5455640-$ | US- 5457751-$ | US- 5463428-$ | US- 5500532-$ | US- 5510961-$ | US- 5513384-$ | US- 5533130-$ | US- 5581090-$ | US- 5585871-$ | US- 56279804-$ | US- 5634201-$ | US- 5671035-$ | US- 5673692-$ | US- 5694475-$ | US- 5715323-$ | US- 58316904-$ | US-					

		5835185-$ | US-5900720-$ | US-5903395-$ | US-59204504-$ | US-5923398-$ | US-5941837-$ | US-5946071-$ | US-5949516-$ | US-5963294-$ | US-5966746-$ | US-5988812-$ | US-5991085-$ | US-5992996-$ | US-6010216-$ | US-6013919-$ | US-6028627-$ | US-6046455-$ | US-60519104-$).DID.					
L630	369	(US-6060321-$ | US-6061580-$ | US-6091832-$ | US-6115177-$ | US-6132681-$ | US-6154552-$ | US-6176576-$ | US-61810704-$ | US-6199550-$ | US-62023804-$ | US-6225897-$ | US-6231181-$ | US-6236969-$ | US-6259367-$ | US-6270466-$ | US-6292213-$ | US-6292685-$ | US-6301367-$ | US-6343858-$ | US-6409335-$ | US-6409338-$ | US-6431705-$ | US-6474816-$ | US-64782605-$ | US-64783605-$ | US-6511175-$ | US-6513532-$ | US-6517203-$ | US-6539336-$ | US-6542081-$ | US-6546101-$ | US-6554444-$ | US-6582075-$ | US-6619799-$ | US-6629076-$ | US-6686843-$ | US-6729726-$ | US-6736759-$ | US-6764194-$ | US-6769767-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 05:34 PM

		6788309-$ | US- 6792401-$ | US- 6798391-$ | US- 6824265-$ | US- 6840908-$ | US- 6853303-$ | US- 6857741-$ | US- 6871951-$ | US- 6879930-$ | US- 6898550-$ | US- 6899585-$ | US- 6912386-$ | US- 6932090-$ | US- 6947219-$ | US- 6974226-$ | US- 7013009-$ | US- 7023594-$ | US- 7030902-$ | US- 7031667-$ | US- 7033025-$ | US- 7044615-$ | US- 7048370-$ | US- 7059717-$ | US- 7079876-$ | US- 7148879-$ | US- 7150526-$ | US- 7192136-$ | US- 7255437-$ | US- 7265358-$ | US- 7274292-$ | US- 7278734-$ | US- 7289767-$ | US- 7312699-$ | US- 7313246-$ | US- 7319780-$ | US- 7376238-$ | US- 7380936-$ | US- 7405801-$ | US- 7438409-$ | US- 7438410-$ | US- 7452067-$ | US- 7500746-$ | US- 7500747-$ | US- 7512414-$ | US- 7521623-$ | US- 7543934-$ | US- 7543938-$ | US- 7547101-$ | US- 7581833-$ | US- 7604348-$ | US- 7643895-$ | US- 7648236-$ | US- 7677723-$ | US- 7740353-$ | US- 7760898-$ | US- 7792552-$ | US- 7798638-$ | US- 7806525-$ | US-						

		7818142-$ | US- 7834759-$ | US- 7922321-$ | US- 8073984-$ | US- 8095799-$ | US- 8109629-$ | US- 8142015-$ | US- 8182267-$ | US- 8184067-$ | US- 8243973-$ | US- 8328420-$ | US- 8337013-$ | US- 8421851-$ | US- 8430507-$ | US- 8465151-$ | US- 8482488-$ | US- 8485661-$ | US- 8508851-$ | US- 8558759-$ | US- 8593795-$ | US- 8668334-$ | US- 8766747-$ | US- 8767306-$ | US- 8778022-$ | US- 8801174-$ | US- 8823740-$ | US- 8832233-$ | US- 8838708-$ | US- 8884845-$ | US- 8905541-$ | US- 8907867-$ | US- 8908894-$ | US- 8931896-$ | US- 8941560-$ | US- 8944590-$ | US- 8952869-$ | US- 8957835-$ | US- 8979259-$ | US- 9024843-$ | US- 9081212-$ | US- 9091851-$ | US- 9097890-$ | US- 9097891-$ | US- 9116545-$ | US- 9128281-$ | US- 9128522-$ | US- 9129295-$ | US- 9134534-$ | US- 9137309-$ | US- 9141194-$ | US- 9143848-$ | US- 9158116-$ | US- 9182596-$ | US- 9201512-$ | US- 9223134-$ | US- 9229227-$ | US- 9230501-$ | US- 9256071-$ | US-					

		9277334-$ | US- 9285589-$ | US- 9298007-$ | US- 9299194-$ | US- 9341843-$ | US- 9349280-$ | US- 9366862-$ | US- 9400390-$ | US- 9401540-$ | US- 9405135-$ | US- 9405892-$ | US- 9423842-$ | US- 9423870-$ | US- 9494800-$ | US- 9529197-$ | US- 9529199-$ | US- 9568746-$ | US- 9582071-$ | US- 9589482-$ | US- 9594433-$ | US- 9600079-$ | US- 9651787-$ | US- 9672210-$ | US- 9684172-$ | US- 9684374-$ | US- 9690121-$ | US- 9715112-$ | US- 9715774-$ | US- 9730647-$ | US- 9740280-$ | US- 9753288-$ | US- 9759917-$ | US- 9766463-$ | US- 9781408-$ | US- 9800990-$ | US- 9829707-$ | US- 9836122-$ | US- 9841599-$ | US- 9857590-$).DID.					
L631	355	(US-0000733-$ | US- 0001827-$ | US- 0003803-$ | US- 0005230-$ | US- 0017997-$ | US- 0018274-$ | US- 0021407-$ | US- 0022690-$ | US- 0023158-$ | US- 0028309-$ | US- 0029582-$ | US- 0030442-$ | US- 0032449-$ | US- 0033061-$ | US- 0034478-$ | US- 0035830-$ | US- 0046887-$ | US- 0050668-$ | US- 0050754-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 05:35 PM

		0055888-$ | US- 0059159-$ | US- 0059212-$ | US- 0061579-$ | US- 0062046-$ | US- 0062338-$ | US- 0063378-$ | US- 0065257-$ | US- 0067580-$ | US- 0067585-$ | US- 0068057-$ | US- 0068117-$ | US- 0068559-$ | US- 0072828-$ | US- 0073375-$ | US- 0074721-$ | US- 0078274-$ | US- 0079356-$ | US- 0081982-$ | US- 0083591-$ | US- 0084990-$ | US- 0085245-$ | US- 0088365-$ | US- 0089639-$ | US- 0090103-$ | US- 0096078-$ | US- 0098192-$ | US- 0098877-$ | US- 0100384-$ | US- 0101568-$ | US- 0102734-$ | US- 0107822-$ | US- 0109491-$ | US- 0109600-$ | US- 0110368-$ | US- 0128737-$ | US- 0131575-$ | US- 0132382-$ | US- 0132913-$ | US- 0133885-$ | US- 0140899-$ | US- 0141233-$ | US- 0144854-$ | US- 0146829-$ | US- 0147215-$ | US- 0150986-$ | US- 0151175-$ | US- 0151179-$ | US- 0156012-$ | US- 0156128-$ | US- 0157649-$ | US- 0158506-$ | US- 0159023-$ | US- 0160571-$ | US- 0160572-$ | US- 0160573-$ | US- 0164122-$ | US- 0176902-$ | US-					

		0186330-$ | US- 0187990-$ | US- 0197002-$ | US- 0197961-$ | US- 0198293-$ | US- 0200927-$ | US- 0201440-$ | US- 0201585-$ | US- 0208531-$ | US- 0213026-$ | US- 0214630-$ | US- 0218684-$ | US- 0226978-$ | US- 0227219-$ | US- 0230596-$ | US- 0230988-$ | US- 0238194-$ | US- 0239502-$ | US- 0241976-$ | US- 0245754-$ | US- 0246075-$ | US- 0248717-$ | US- 0248718-$ | US- 0248719-$ | US- 0251661-$ | US- 0253590-$ | US- 0262392-$ | US- 0264752-$ | US- 0268008-$ | US- 0268013-$ | US- 0268017-$ | US- 0270663-$ | US- 0271065-$ | US- 0271116-$ | US- 0271387-$ | US- 0273365-$ | US- 0278678-$ | US- 0279584-$ | US- 0296044-$ | US- 0296045-$ | US- 0302992-$ | US- 0308089-$ | US- 0309426-$ | US- 0361185-$ | US- 1255265-$ | US- 1917745-$ | US- 20010005230-$ | US- 20010028309-$ | US- 20010050754-$ | US- 20020017997-$ | US- 20020021407-$ | US- 20020081982-$ | US- 20020084990-$ | US- 20020089639-$ | US- 20020090103-$ | US- 20020098877-$ | US- 20020101568-$ | US- 20020109600-$ | US-					

		20020140899-$ | US- 20020159023-$ | US- 20020197961-$ | US- 20030018274-$ | US- 20030022690-$ | US- 20030032449-$ | US- 20030062046-$ | US- 20030065257-$ | US- 20030067585-$ | US- 20030068057-$ | US- 20030083591-$ | US- 20030214630-$ | US- 20030226978-$ | US- 20040000733-$ | US- 20040029582-$ | US- 20040059212-$ | US- 20040063378-$ | US- 20040096078-$ | US- 20040100384-$ | US- 20040128737-$ | US- 20040150986-$ | US- 20040156012-$ | US- 20040157649-$ | US- 20040160571-$ | US- 20040160572-$ | US- 20040160573-$ | US- 20040197002-$ | US- 20040227219-$ | US- 20050067580-$ | US- 20050078274-$ | US- 20050088365-$ | US- 20050201585-$ | US- 20050213026-$ | US- 20050230596-$ | US- 20050238194-$ | US- 20050239502-$ | US- 20050248717-$ | US- 20050248718-$ | US- 20050248719-$ | US- 20050264752-$ | US- 20060001827-$ | US- 20060003803-$ | US- 20060023158-$ | US- 20060034478-$ | US- 20060107822-$).DID.				
L632	354	(US-20060132382-$ | US-20070030442-$ | US-20070035830-$ | US-20070046887-$ | US-20070055888-$ | US-20070098192-$ | US-20070109491-$ | US-20070186330-$ | US-20070200927-$ | US-20070208531-$ | US-20070270663-$ | US-20070271065-$ | US-20070271116-$ |	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	OR	ON	ON	2022/09/26 05:35 PM

		US-20070271387-$ | US-20070279584-$ | US-20080062338-$ | US-20080068559-$ | US-20080144854-$ | US-20080151175-$ | US-20080151179-$ | US-20080158506-$ | US-20080218684-$ | US-20080262392-$ | US-20080278678-$ | US-20090059159-$ | US-20090073375-$ | US-20090141233-$ | US-20090147215-$ | US-20090156128-$ | US-20090251661-$ | US-20090296044-$ | US-20100061579-$ | US-20100079356-$ | US-20100110368-$ | US-20100245754-$ | US-20100296045-$ | US-20100309426-$ | US-20110102734-$ | US-20110164122-$ | US-20110187990-$ | US-20110241976-$ | US-20110273365-$ | US-20120033061-$ | US-20120050668-$ | US-20120133885-$ | US-20130072828-$ | US-20130201440-$ | US-20130308089-$ | US-20140132913-$ | US-20140176902-$ | US-20140198293-$ | US-20140268008-$ | US-20140268013-$ | US-20140268017-$ | US-20140361185-$ | US-20150085245-$ | US-20150230988-$ | US-20150253590-$ | US-20160246075-$ | US-20160302992-$ | US-20170068117-$ | US-20170074721-$ | US-20170131575-$ | US-20170146829-$ | US-2249572-$ | US-2638532-$ | US-2794085-$ | US-2818511-$ | US-2830132-$ | US-2874230-$ | US-2904670-$ | US-	WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

		3060308-$ | US- 3597054-$ | US- 3710115-$ | US- 3858001-$ | US- 3883701-$ | US- 4165487-$ | US- 4254451-$ | US- 4283127-$ | US- 4322585-$ | US- 4348664-$ | US- 4389217-$ | US- 4526473-$ | US- 4535244-$ | US- 4608492-$ | US- 4683587-$ | US- 4751691-$ | US- 4757714-$ | US- 4773095-$ | US- 4806011-$ | US- 4822160-$ | US- 4822161-$ | US- 4851686-$ | US- 4856086-$ | US- 4859047-$ | US- 4882769-$ | US- 4904078-$ | US- 4942629-$ | US- 4962469-$ | US- 4967268-$ | US- 4985632-$ | US- 5008548-$ | US- 5015086-$ | US- 5020150-$ | US- 5026151-$ | US- 5036311-$ | US- 5050150-$ | US- 5064410-$ | US- 5093576-$ | US- 5106179-$ | US- 5148023-$ | US- 5151600-$ | US- 5161250-$ | US- 5172256-$ | US- 5264877-$ | US- 5306917-$ | US- 5353378-$ | US- 5359370-$ | US- 5359444-$ | US- 5367345-$ | US- 5379464-$ | US- 5382986-$ | US- 5394005-$ | US- 5452026-$ | US- 5452480-$ | US- 5455637-$ | US- 5455640-$ | US- 5457751-$ | US- 5463428-$ | US-					

		5500532-$ | US- 5510961-$ | US- 5513384-$ | US- 5533130-$ | US- 5541641-$ | US- 5581090-$ | US- 5585871-$ | US- 5589398-$ | US- 5590417-$ | US- 5606743-$ | US- 5608808-$ | US- 5634201-$ | US- 5671035-$ | US- 5686727-$ | US- 5694475-$ | US- 5715323-$ | US- 5737436-$ | US- 5818381-$ | US- 5835185-$ | US- 5900720-$ | US- 5903395-$ | US- 5941837-$ | US- 5946071-$ | US- 5949516-$ | US- 5966746-$ | US- 5980037-$ | US- 5988812-$ | US- 5991085-$ | US- 5992996-$ | US- 5995592-$ | US- 6010216-$ | US- 6013919-$ | US- 6028627-$ | US- 6046455-$ | US- 6060321-$ | US- 6061580-$ | US- 6091546-$ | US- 6091832-$ | US- 6115177-$ | US- 6132681-$ | US- 6145983-$ | US- 6154552-$ | US- 6176576-$ | US- 6225897-$ | US- 6231181-$ | US- 6236969-$ | US- 6243578-$ | US- 6259367-$ | US- 6270466-$ | US- 6292213-$).DID.				
L633	183	(US-6292685-$ | US- 6301367-$ | US- 6307526-$ | US- 6343858-$ | US- 6349001-$ | US- 6349422-$ | US- 6409335-$ | US- 6409338-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2022/09/26 05:35 PM

		6426719-$ | US- 6431705-$ | US- 6474816-$ | US- 6478736-$ | US- 6506142-$ | US- 6511175-$ | US- 6513532-$ | US- 6517203-$ | US- 6539336-$ | US- 6542081-$ | US- 6546101-$ | US- 6554763-$ | US- 6582075-$ | US- 6619799-$ | US- 6629076-$ | US- 6729726-$ | US- 6736759-$ | US- 6764194-$ | US- 6769767-$ | US- 6788309-$ | US- 6792401-$ | US- 6824265-$ | US- 6871951-$ | US- 6879930-$ | US- 6912386-$ | US- 6929365-$ | US- 6932090-$ | US- 6947219-$ | US- 7004582-$ | US- 7013009-$ | US- 7030902-$ | US- 7031667-$ | US- 7033025-$ | US- 7059717-$ | US- 7073905-$ | US- 7079876-$ | US- 7123215-$ | US- 7192136-$ | US- 7255437-$ | US- 7265358-$ | US- 7274292-$ | US- 7289767-$ | US- 7312699-$ | US- 7331666-$ | US- 7376238-$ | US- 7380936-$ | US- 7401918-$ | US- 7405801-$ | US- 7429965-$ | US- 7438409-$ | US- 7438410-$ | US- 7445332-$ | US- 7481531-$ | US- 7500746-$ | US- 7500747-$ | US- 7512414-$ | US- 7527374-$ | US- 7543934-$ | US-	MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

		7581833-$ | US-7621634-$ | US-7648236-$ | US-7677723-$ | US-7760898-$ | US-7771046-$ | US-7792552-$ | US-7806525-$ | US-7922321-$ | US-7976159-$ | US-8109629-$ | US-8142015-$ | US-8337013-$ | US-8430507-$ | US-8434863-$ | US-8465151-$ | US-8485661-$ | US-8500271-$ | US-8770742-$ | US-8905542-$ | US-9033493-$ | US-9244292-$ | US-9405135-$ | US-9488520-$ | US-9547184-$ | US-9690121-$ | US-D369167-$).DID.					
L634	1167	629 630 631 632 633	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 05:35 PM
L635	76	634 AND 45	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO;	OR	ON	ON	2022/09/26 05:36 PM

			JPO; DERWENT; IBM_TDB)				
L636	51	634 AND 47	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 05:36 PM
L637	34	"9122082"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 08:08 AM
L638	162	"7278734"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 08:08 AM
L639	55	"6911172"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2022/09/27 08:08 AM

			IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L640	538	"6349001"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 08:08 AM
L641	132	"7150526"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 08:08 AM
L642	199	"7192136"	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/27 08:08 AM
L643	146	"7922321"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO;	OR	ON	ON	2022/09/27 08:09 AM

			JPO; DERWENT; IBM_TDB)				
L644	78	(US-10359459-$ | US-10624790-$ | US-10777048-$ | US-20030231293-$ | US-20040059212-$ | US-20040101178-$ | US-20060034478-$ | US-20070035830-$ | US-20080100792-$ | US-20090073375-$ | US-20090141233-$ | US-20120033061-$ | US-20130072828-$ | US-20130148519-$ | US-20140132913-$ | US-20160302992-$ | US-20170074721-$ | US-20170090219-$ | US-20170131575-$ | US-20170146829-$ | US-20170303187-$ | US-20190272800-$ | US-20190278110-$ | US-20190285913-$ | US-20190310132-$ | US-20190318589-$ | US-20190387351-$ | US-20200012127-$ | US-20200364992-$ | US-3858001-$ | US-4904078-$ | US-5455637-$ | US-5541641-$ | US-5923398-$ | US-6091546-$ | US-6788309-$ | US-6816314-$ | US-6857741-$ | US-7023594-$ | US-7517083-$).DID.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 08:42 AM
L645	16	(US-11042045-$ | US-11086147-$ | US-20050278446-$ | US-20070248238-$ | US-20080211921-$ | US-20120062357-$ | US-20210271116-$ | US-9922236-$).DID.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2022/09/27 08:42 AM

			IBM_TDB)				
L646	20	(US-11086147-$ | US-11204512-$ | US-20050278446-$ | US-20080211921-$ | US-20120062357-$ | US-20190033622-$ | US-20210271116-$ | US-20210364827-$ | US-20210364828-$ | US-9922236-$).DID.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 08:42 AM
L647	40	(US-7976159-$ | US-8109629-$ | US-8142015-$ | US-8174569-$ | US-8337013-$ | US-8430507-$ | US-8434863-$ | US-8465151-$ | US-8485661-$ | US-8500271-$ | US-8770742-$ | US-8905542-$ | US-9033493-$ | US-9244292-$ | US-9400390-$ | US-9405135-$ | US-9488520-$ | US-9547184-$ | US-9690121-$).DID.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 08:42 AM
L648	65	(US-7517083-$ | US-7527374-$ | US-7543934-$ | US-7581833-$ | US-7621634-$ | US-7648236-$ | US-7677723-$ | US-7760898-$ | US-7771046-$ | US-7792552-$ | US-7806525-$ | US-7922321-$ | US-7976159-$ | US-8109629-$ | US-8142015-$ | US-8174569-$ | US-8337013-$ | US-8430507-$ | US-8434863-$ | US-8465151-$ | US-8485661-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 08:42 AM

		8500271-$ | US-8770742-$ | US-8905542-$ | US-9033493-$ | US-9244292-$ | US-9400390-$ | US-9405135-$ | US-9488520-$ | US-9547184-$ | US-9690121-$ | US-D369167-$).DID.					
L649	162	644 645 646 647 648	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 09:07 AM
L650	26	649 AND 45	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 09:08 AM
L651	19	649 AND 47	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO;	OR	ON	ON	2022/09/27 09:08 AM

			JPO; DERWENT; IBM_TDB)				
L652	40	(US-0011603-$ | US-0054092-$ | US-0104864-$ | US-0172691-$ | US-0226838-$ | US-0369402-$ | US-11243416-$ | US-20040104864-$ | US-20130172691-$ | US-20140226838-$ | US-20190369402-$ | US-20220011603-$ | US-20220054092-$ | US-5144344-$ | US-5475798-$ | US-5777715-$ | US-6301050-$ | US-6346929-$ | US-6717737-$ | US-6771423-$).DID.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 09:44 AM
L653	13	(US-9880441-$ | US-9882992-$ | US-9910298-$ | US-9922236-$ | US-9939934-$ | US-9952883-$ | US-9965681-$).DID.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 09:44 AM
L654	85	"6771423"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 09:44 AM
L655	123	"5671037"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	ON	ON	2022/09/27 09:44 AM

			CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L656	60	"11183269"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 09:44 AM
L657	27	"10628831"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/27 09:44 AM
L658	29	"11204512"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK,	OR	ON	ON	2022/09/27 09:45 AM

			TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Web Search History

date, time	web site	search string
9/26/2022 3:01:22 PM	Google	smart glasses
9/26/2022 3:01:35 PM	Google Images	smart glasses
9/26/2022 3:02:09 PM	Google Images	Smart glasses with display
9/26/2022 3:02:09 PM	Google	Smart glasses with display
9/26/2022 3:02:58 PM	Google	augmented reality glasses
9/26/2022 3:03:09 PM	Google Images	augmented reality glasses
9/26/2022 3:04:03 PM	Google Images	virtual reality glasses
9/26/2022 3:04:03 PM	Google	virtual reality glasses
9/26/2022 3:04:15 PM	Google	virtual reality glasses headset
9/26/2022 3:04:25 PM	Google Images	electric eyeglasses
9/26/2022 3:04:25 PM	Google	electric eyeglasses
9/26/2022 3:10:04 PM	Google Scholar	(eyewear) (temple) (temples) (frame) (transceiver)
9/26/2022 3:10:04 PM	Google Patents	Keyword Group 1 [(eyewear) (temple) (temples) (frame) (transceiver)] Before Priority Date: priority:20010430
9/26/2022 3:10:24 PM	Google Scholar	(speaker) (audio device) (audio) (wearable wireless) (wireless audio)
9/26/2022 3:10:24 PM	Google Patents	Keyword Group 1 [(speaker) (audio device) (audio) (wearable wireless) (wireless audio)] Before Priority Date: priority:20000602
9/26/2022 3:10:25 PM	Google Scholar	speaker audio device audio wearable wireless wireless audio

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date, time	web site	search string
9/26/2022 3:10:25 PM	Google Patents	**Keyword Group 1** [speaker] **Keyword Group 2** [audio device] **Keyword Group 3** [audio] **Keyword Group 4** [wearable wireless] **Keyword Group 5** [wireless audio] **Before** Priority Date: priority:20000602
9/26/2022 3:10:26 PM	Google Scholar	eyewear temple temples frame transceiver
9/26/2022 3:10:37 PM	Google Scholar	(eyeglass) (interface system) (camera) (audio) (integrated circuits)
9/26/2022 3:10:37 PM	Google Patents	**Keyword Group 1** [(eyeglass) (interface system) (camera) (audio) (integrated circuits)] **Before** Priority Date: priority:19971030
9/26/2022 3:10:38 PM	Google Scholar	eyeglass interface system camera audio integrated circuits
9/26/2022 3:10:38 PM	Google Patents	**Keyword Group 1** [eyeglass] **Keyword Group 2** [interface system] **Keyword Group 3** [camera] **Keyword Group 4** [audio] **Keyword Group 5** [integrated circuits] **Before** Priority Date: priority:19971030
9/26/2022 3:10:48 PM	Google Scholar	(camera) (wearer) (viewfinder) (display) (beamsplitter)
9/26/2022 3:10:48 PM	Google Patents	**Keyword Group 1** [(camera) (wearer) (viewfinder) (display) (beamsplitter)] **Before** Priority Date: priority:19980202

date, time	web site	search string
9/26/2022 3:10:49 PM	Google Scholar	camera wearer viewfinder display beamsplitter
9/26/2022 3:10:49 PM	Google Patents	Keyword Group 1 [camera] Keyword Group 2 [wearer] Keyword Group 3 [viewfinder] Keyword Group 4 [display] Keyword Group 5 [beamsplitter] Before Priority Date: priority:19980202
9/26/2022 3:10:54 PM	Google Patents	Keyword Group 1 [eyewear] Keyword Group 2 [temple] Keyword Group 3 [temples] Keyword Group 4 [frame] Keyword Group 5 [transceiver] Before Priority Date: priority:20010430
9/26/2022 3:45:42 PM	Google Scholar	(mount) (temple) (temples) (hinge) (ophthalmic)
9/26/2022 3:45:42 PM	Google Patents	Keyword Group 1 [(mount) (temple) (temples) (hinge) (ophthalmic)] Before Priority Date: priority:19550804
9/26/2022 3:45:43 PM	Google Scholar	mount temple temples hinge ophthalmic

date, time	web site	search string
9/26/2022 3:45:43 PM	Google Patents	**Keyword Group 1** [mount] **Keyword Group 2** [temple] **Keyword Group 3** [temples] **Keyword Group 4** [hinge] **Keyword Group 5** [ophthalmic] **Before** Priority Date: priority:19550804
9/26/2022 3:45:50 PM	Google Scholar	(temple) (tube) (solid) (cavities) (injection)
9/26/2022 3:45:50 PM	Google Patents	**Keyword Group 1** [(temple) (tube) (solid) (cavities) (injection)] **Before** Priority Date: priority:19720922
9/26/2022 3:45:52 PM	Google Scholar	temple tube solid cavities injection
9/26/2022 3:45:52 PM	Google Patents	**Keyword Group 1** [temple] **Keyword Group 2** [tube] **Keyword Group 3** [solid] **Keyword Group 4** [cavities] **Keyword Group 5** [injection] **Before** Priority Date: priority:19720922
9/26/2022 3:45:57 PM	Google Scholar	(mold) (rigid) (liquid resin) (resin system) (flexible)
9/26/2022 3:45:57 PM	Google Patents	**Keyword Group 1** [(mold) (rigid) (liquid resin) (resin system) (flexible)] **Before** Priority Date: priority:19781027
9/26/2022 3:45:58 PM	Google Scholar	mold rigid liquid resin resin system flexible

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date, time	web site	search string
9/26/2022 3:45:58 PM	Google Patents	**Keyword Group 1** [mold] **Keyword Group 2** [rigid] **Keyword Group 3** [liquid resin] **Keyword Group 4** [resin system] **Keyword Group 5** [flexible] **Before** Priority Date: priority:19781027
9/26/2022 3:46:03 PM	Google Scholar	(temple) (swimmer) (temple pieces) (eyepieces) (pieces)
9/26/2022 3:46:03 PM	Google Patents	**Keyword Group 1** [(temple) (swimmer) (temple pieces) (eyepieces) (pieces)] **Before** Priority Date: priority:19930818
9/26/2022 3:46:04 PM	Google Scholar	temple swimmer temple pieces eyepieces pieces
9/26/2022 3:46:04 PM	Google Patents	**Keyword Group 1** [temple] **Keyword Group 2** [swimmer] **Keyword Group 3** [temple pieces] **Keyword Group 4** [eyepieces] **Keyword Group 5** [pieces] **Before** Priority Date: priority:19930818
9/26/2022 3:46:11 PM	Google Scholar	(connectors) (frame body) (lens) (end portions) (section)
9/26/2022 3:46:11 PM	Google Patents	**Keyword Group 1** [(connectors) (frame body) (lens) (end portions) (section)] **Before** Priority Date: priority:19951113
9/26/2022 3:46:12 PM	Google Scholar	connectors frame body lens end portions section

date, time	web site	search string
9/26/2022 3:46:12 PM	Google Patents	**Keyword Group 1** [connectors] **Keyword Group 2** [frame body] **Keyword Group 3** [lens] **Keyword Group 4** [end portions] **Keyword Group 5** [section] **Before** Priority Date: priority:19951113
9/26/2022 3:46:18 PM	Google Scholar	(frame) (temple) (hinge) (ear stem) (attached)
9/26/2022 3:46:18 PM	Google Patents	**Keyword Group 1** [(frame) (temple) (hinge) (ear stem) (attached)] **Before** Priority Date: priority:19960311
9/26/2022 3:46:20 PM	Google Scholar	frame temple hinge ear stem attached
9/26/2022 3:46:20 PM	Google Patents	**Keyword Group 1** [frame] **Keyword Group 2** [temple] **Keyword Group 3** [hinge] **Keyword Group 4** [ear stem] **Keyword Group 5** [attached] **Before** Priority Date: priority:19960311
9/26/2022 3:46:29 PM	Google Scholar	(wearer) (assembly) (speaker) (structured) (disposed)
9/26/2022 3:46:29 PM	Google Patents	**Keyword Group 1** [(wearer) (assembly) (speaker) (structured) (disposed)] **Before** Priority Date: priority:19960906
9/26/2022 3:46:30 PM	Google Scholar	wearer assembly speaker structured disposed

date, time	web site	search string
9/26/2022 3:46:30 PM	Google Patents	**Keyword Group 1** [wearer] **Keyword Group 2** [assembly] **Keyword Group 3** [speaker] **Keyword Group 4** [structured] **Keyword Group 5** [disposed] **Before** Priority Date: priority:19960906
9/26/2022 3:46:39 PM	Google Scholar	(eyeglasses) (earpieces) (receiver portion) (transmitter) (radio frequency)
9/26/2022 3:46:39 PM	Google Patents	**Keyword Group 1** [(eyeglasses) (earpieces) (receiver portion) (transmitter) (radio frequency)] **Before** Priority Date: priority:19980615
9/26/2022 3:46:40 PM	Google Scholar	eyeglasses earpieces receiver portion transmitter radio frequency
9/26/2022 3:46:40 PM	Google Patents	**Keyword Group 1** [eyeglasses] **Keyword Group 2** [earpieces] **Keyword Group 3** [receiver portion] **Keyword Group 4** [transmitter] **Keyword Group 5** [radio frequency] **Before** Priority Date: priority:19980615
9/26/2022 4:03:04 PM	Google Scholar	(assembly) (speaker) (structured) (recited) (industrial safety)
9/26/2022 4:03:04 PM	Google Patents	**Keyword Group 1** [(assembly) (speaker) (structured) (recited) (industrial safety)] **Before** Priority Date: priority:19960906
9/26/2022 4:03:05 PM	Google Scholar	assembly speaker structured recited industrial safety

date, time	web site	search string
9/26/2022 4:03:05 PM	Google Patents	**Keyword Group 1** [assembly] **Keyword Group 2** [speaker] **Keyword Group 3** [structured] **Keyword Group 4** [recited] **Keyword Group 5** [industrial safety] **Before** Priority Date: priority:19960906
9/26/2022 4:03:12 PM	Google Scholar	(interface system) (eyeglass) (assembly) (audio) (lens)
9/26/2022 4:03:12 PM	Google Patents	**Keyword Group 1** [(interface system) (eyeglass) (assembly) (audio) (lens)] **Before** Priority Date: priority:19971030
9/26/2022 4:03:13 PM	Google Scholar	interface system eyeglass assembly audio lens
9/26/2022 4:03:13 PM	Google Patents	**Keyword Group 1** [interface system] **Keyword Group 2** [eyeglass] **Keyword Group 3** [assembly] **Keyword Group 4** [audio] **Keyword Group 5** [lens] **Before** Priority Date: priority:19971030
9/26/2022 4:03:19 PM	Google Scholar	(pivot pin) (eyeglass) (tang) (clevis) (extending)
9/26/2022 4:03:19 PM	Google Patents	**Keyword Group 1** [(pivot pin) (eyeglass) (tang) (clevis) (extending)] **Before** Priority Date: priority:19981215
9/26/2022 4:03:20 PM	Google Scholar	pivot pin eyeglass tang clevis extending

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date, time	web site	search string
9/26/2022 4:03:20 PM	Google Patents	**Keyword Group 1** [pivot pin] **Keyword Group 2** [eyeglass] **Keyword Group 3** [tang] **Keyword Group 4** [clevis] **Keyword Group 5** [extending] **Before** Priority Date: priority:19981215
9/26/2022 4:03:26 PM	Google Scholar	(pivot pin) (wire) (hinge) (tang) (pin portions)
9/26/2022 4:03:26 PM	Google Patents	**Keyword Group 1** [(pivot pin) (wire) (hinge) (tang) (pin portions)] **Before** Priority Date: priority:19991112
9/26/2022 4:03:27 PM	Google Scholar	pivot pin wire hinge tang pin portions
9/26/2022 4:03:27 PM	Google Patents	**Keyword Group 1** [pivot pin] **Keyword Group 2** [wire] **Keyword Group 3** [hinge] **Keyword Group 4** [tang] **Keyword Group 5** [pin portions] **Before** Priority Date: priority:19991112
9/26/2022 4:03:34 PM	Google Scholar	(temple) (cavity) (forward end) (insert structure) (grasping)
9/26/2022 4:03:34 PM	Google Patents	**Keyword Group 1** [(temple) (cavity) (forward end) (insert structure) (grasping)] **Before** Priority Date: priority:20000323
9/26/2022 4:03:35 PM	Google Scholar	temple cavity forward end insert structure grasping

date, time	web site	search string
9/26/2022 4:03:35 PM	Google Patents	**Keyword Group 1** [temple] **Keyword Group 2** [cavity] **Keyword Group 3** [forward end] **Keyword Group 4** [insert structure] **Keyword Group 5** [grasping] **Before** Priority Date: priority:20000323
9/26/2022 4:03:44 PM	Google Scholar	(receiver) (lens frame) (eyeglasses) (temple piece) (electrical)
9/26/2022 4:03:44 PM	Google Patents	**Keyword Group 1** [(receiver) (lens frame) (eyeglasses) (temple piece) (electrical)] **Before** Priority Date: priority:20011018
9/26/2022 4:03:45 PM	Google Scholar	receiver lens frame eyeglasses temple piece electrical
9/26/2022 4:03:45 PM	Google Patents	**Keyword Group 1** [receiver] **Keyword Group 2** [lens frame] **Keyword Group 3** [eyeglasses] **Keyword Group 4** [temple piece] **Keyword Group 5** [electrical] **Before** Priority Date: priority:20011018
9/26/2022 4:03:54 PM	Google Scholar	(values) (speaker) (listener) (location) (speech)
9/26/2022 4:03:54 PM	Google Patents	**Keyword Group 1** [(values) (speaker) (listener) (location) (speech)] **Before** Priority Date: priority:20001127
9/26/2022 4:03:56 PM	Google Scholar	values speaker listener location speech

date, time	web site	search string
9/26/2022 4:03:56 PM	Google Patents	**Keyword Group 1** [values] **Keyword Group 2** [speaker] **Keyword Group 3** [listener] **Keyword Group 4** [location] **Keyword Group 5** [speech] **Before** Priority Date: priority:20001127
9/26/2022 5:01:43 PM	Google Scholar	(hearing aid) (temples) (temple) (circuit) (recess)
9/26/2022 5:01:43 PM	Google Patents	**Keyword Group 1** [(hearing aid) (temples) (temple) (circuit) (recess)] **Before** Priority Date: priority:19551208
9/26/2022 5:01:44 PM	Google Scholar	hearing aid temples temple circuit recess
9/26/2022 5:01:44 PM	Google Patents	**Keyword Group 1** [hearing aid] **Keyword Group 2** [temples] **Keyword Group 3** [temple] **Keyword Group 4** [circuit] **Keyword Group 5** [recess] **Before** Priority Date: priority:19551208
9/26/2022 5:01:50 PM	Google Scholar	(hearing aid) (temple) (temples) (microphone) (housing)
9/26/2022 5:01:50 PM	Google Patents	**Keyword Group 1** [(hearing aid) (temple) (temples) (microphone) (housing)] **Before** Priority Date: priority:19570225
9/26/2022 5:01:51 PM	Google Scholar	hearing aid temple temples microphone housing

date, time	web site	search string
9/26/2022 5:01:51 PM	Google Patents	**Keyword Group 1** [hearing aid] **Keyword Group 2** [temple] **Keyword Group 3** [temples] **Keyword Group 4** [microphone] **Keyword Group 5** [housing] **Before** Priority Date: priority:19570225
9/26/2022 5:01:57 PM	Google Scholar	(guide) (carrier) (carrier body) (guide channel) (carrier unit)
9/26/2022 5:01:57 PM	Google Patents	**Keyword Group 1** [(guide) (carrier) (carrier body) (guide channel) (carrier unit)] **Before** Priority Date: priority:19650712
9/26/2022 5:01:58 PM	Google Scholar	guide carrier carrier body guide channel carrier unit
9/26/2022 5:01:58 PM	Google Patents	**Keyword Group 1** [guide] **Keyword Group 2** [carrier] **Keyword Group 3** [carrier body] **Keyword Group 4** [guide channel] **Keyword Group 5** [carrier unit] **Before** Priority Date: priority:19650712
9/26/2022 5:02:05 PM	Google Scholar	(hinge) (bar) (plunger) (temple) (hinge pin)
9/26/2022 5:02:05 PM	Google Patents	**Keyword Group 1** [(hinge) (bar) (plunger) (temple) (hinge pin)] **Before** Priority Date: priority:19661209
9/26/2022 5:02:06 PM	Google Scholar	hinge bar plunger temple hinge pin

date, time	web site	search string
9/26/2022 5:02:06 PM	Google Patents	**Keyword Group 1** [hinge] **Keyword Group 2** [bar] **Keyword Group 3** [plunger] **Keyword Group 4** [temple] **Keyword Group 5** [hinge pin] **Before** Priority Date: priority:19661209
9/26/2022 5:02:13 PM	Google Scholar	(frame) (temple bar) (temple) (section) (hinge)
9/26/2022 5:02:13 PM	Google Patents	**Keyword Group 1** [(frame) (temple bar) (temple) (section) (hinge)] **Before** Priority Date: priority:19730116
9/26/2022 5:02:15 PM	Google Scholar	frame temple bar temple section hinge
9/26/2022 5:02:15 PM	Google Patents	**Keyword Group 1** [frame] **Keyword Group 2** [temple bar] **Keyword Group 3** [temple] **Keyword Group 4** [section] **Keyword Group 5** [hinge] **Before** Priority Date: priority:19730116
9/26/2022 5:02:22 PM	Google Scholar	(frame) (light emitting) (eyeglasses) (pair) (switch)
9/26/2022 5:02:22 PM	Google Patents	**Keyword Group 1** [(frame) (light emitting) (eyeglasses) (pair) (switch)] **Before** Priority Date: priority:19791129
9/26/2022 5:02:23 PM	Google Scholar	frame light emitting eyeglasses pair switch

date, time	web site	search string
9/26/2022 5:02:23 PM	Google Patents	**Keyword Group 1** [frame] **Keyword Group 2** [light emitting] **Keyword Group 3** [eyeglasses] **Keyword Group 4** [pair] **Keyword Group 5** [switch] **Before** Priority Date: priority:19791129
9/26/2022 5:02:30 PM	Google Scholar	(user) (display) (video) (computer) (head mounted)
9/26/2022 5:02:30 PM	Google Patents	**Keyword Group 1** [(user) (display) (video) (computer) (head mounted)] **Before** Priority Date: priority:19841114
9/26/2022 5:02:31 PM	Google Scholar	user display video computer head mounted
9/26/2022 5:02:31 PM	Google Patents	**Keyword Group 1** [user] **Keyword Group 2** [display] **Keyword Group 3** [video] **Keyword Group 4** [computer] **Keyword Group 5** [head mounted] **Before** Priority Date: priority:19841114
9/26/2022 5:02:37 PM	Google Scholar	(vehicle) (image) (occupant) (images) (seat)
9/26/2022 5:02:37 PM	Google Patents	**Keyword Group 1** [(vehicle) (image) (occupant) (images) (seat)] **Before** Priority Date: priority:20020903
9/26/2022 5:02:39 PM	Google Scholar	vehicle image occupant images seat

date, time	web site	search string
9/26/2022 5:02:39 PM	Google Patents	**Keyword Group 1** [vehicle] **Keyword Group 2** [image] **Keyword Group 3** [occupant] **Keyword Group 4** [images] **Keyword Group 5** [seat] **Before** Priority Date: priority:20020903
9/26/2022 5:24:59 PM	Google Scholar	(images) (vehicle) (data) (information) (occupant)
9/26/2022 5:24:59 PM	Google Patents	**Keyword Group 1** [(images) (vehicle) (data) (information) (occupant)] **Before** Priority Date: priority:20020903
9/26/2022 5:25:01 PM	Google Scholar	images vehicle data information occupant
9/26/2022 5:25:01 PM	Google Patents	**Keyword Group 1** [images] **Keyword Group 2** [vehicle] **Keyword Group 3** [data] **Keyword Group 4** [information] **Keyword Group 5** [occupant] **Before** Priority Date: priority:20020903
9/26/2022 5:26:10 PM	Google Scholar	(eyeglasses) (improve natural) (natural hearing) (hearing) (improve)
9/26/2022 5:26:10 PM	Google Patents	**Keyword Group 1** [(eyeglasses) (improve natural) (natural hearing) (hearing) (improve)] **Before** Priority Date: priority:19840322
9/26/2022 5:26:12 PM	Google Scholar	eyeglasses improve natural natural hearing hearing improve

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date, time	web site	search string
9/26/2022 5:26:12 PM	Google Patents	**Keyword Group 1** [eyeglasses] **Keyword Group 2** [improve natural] **Keyword Group 3** [natural hearing] **Keyword Group 4** [hearing] **Keyword Group 5** [improve] **Before** Priority Date: priority:19840322
9/26/2022 5:26:18 PM	Google Scholar	(temples) (frame) (radio) (loud speakers) (speakers)
9/26/2022 5:26:18 PM	Google Patents	**Keyword Group 1** [(temples) (frame) (radio) (loud speakers) (speakers)] **Before** Priority Date: priority:19871120
9/26/2022 5:26:19 PM	Google Scholar	temples frame radio loud speakers speakers
9/26/2022 5:26:19 PM	Google Patents	**Keyword Group 1** [temples] **Keyword Group 2** [frame] **Keyword Group 3** [radio] **Keyword Group 4** [loud speakers] **Keyword Group 5** [speakers] **Before** Priority Date: priority:19871120
9/26/2022 5:26:28 PM	Google Scholar	(radio) (top frame) (pair) (housing) (slot)
9/26/2022 5:26:28 PM	Google Patents	**Keyword Group 1** [(radio) (top frame) (pair) (housing) (slot)] **Before** Priority Date: priority:19880705
9/26/2022 5:26:29 PM	Google Scholar	radio top frame pair housing slot

date, time	web site	search string
9/26/2022 5:26:29 PM	Google Patents	**Keyword Group 1** [radio] **Keyword Group 2** [top frame] **Keyword Group 3** [pair] **Keyword Group 4** [housing] **Keyword Group 5** [slot] **Before** Priority Date: priority:19880705
9/26/2022 5:26:38 PM	Google Scholar	(solar energy) (battery) (nose bridge) (bridge element) (lens)
9/26/2022 5:26:38 PM	Google Patents	**Keyword Group 1** [(solar energy) (battery) (nose bridge) (bridge element) (lens)] **Before** Priority Date: priority:19891107
9/26/2022 5:26:40 PM	Google Scholar	solar energy battery nose bridge bridge element lens
9/26/2022 5:26:40 PM	Google Patents	**Keyword Group 1** [solar energy] **Keyword Group 2** [battery] **Keyword Group 3** [nose bridge] **Keyword Group 4** [bridge element] **Keyword Group 5** [lens] **Before** Priority Date: priority:19891107
9/26/2022 5:26:48 PM	Google Scholar	(bow) (set forth) (framework) (speaker) (speakers)
9/26/2022 5:26:48 PM	Google Patents	**Keyword Group 1** [(bow) (set forth) (framework) (speaker) (speakers)] **Before** Priority Date: priority:19910122
9/26/2022 5:26:50 PM	Google Scholar	bow set forth framework speaker speakers

date, time	web site	search string
9/26/2022 5:26:50 PM	Google Patents	**Keyword Group 1** [bow] **Keyword Group 2** [set forth] **Keyword Group 3** [framework] **Keyword Group 4** [speaker] **Keyword Group 5** [speakers] **Before** Priority Date: priority:19910122
9/26/2022 5:26:56 PM	Google Scholar	(fuel) (flow rate) (gas turbine) (combustor) (air)
9/26/2022 5:26:56 PM	Google Patents	**Keyword Group 1** [(fuel) (flow rate) (gas turbine) (combustor) (air)] **Before** Priority Date: priority:19910823
9/26/2022 5:26:57 PM	Google Scholar	fuel flow rate gas turbine combustor air
9/26/2022 5:26:57 PM	Google Patents	**Keyword Group 1** [fuel] **Keyword Group 2** [flow rate] **Keyword Group 3** [gas turbine] **Keyword Group 4** [combustor] **Keyword Group 5** [air] **Before** Priority Date: priority:19910823
9/26/2022 5:40:30 PM	Google Scholar	(audio interface) (wearer) (signal) (audio) (support)
9/26/2022 5:40:30 PM	Google Patents	**Keyword Group 1** [(audio interface) (wearer) (signal) (audio) (support)] **Before** Priority Date: priority:20020726
9/26/2022 5:40:32 PM	Google Scholar	audio interface wearer signal audio support

date, time	web site	search string
9/26/2022 5:40:32 PM	Google Patents	**Keyword Group 1** [audio interface] **Keyword Group 2** [wearer] **Keyword Group 3** [signal] **Keyword Group 4** [audio] **Keyword Group 5** [support] **Before** Priority Date: priority:20020726
9/26/2022 5:40:37 PM	Google Scholar	(support) (wearer) (eyeglass) (frame) (audio)
9/26/2022 5:40:37 PM	Google Patents	**Keyword Group 1** [(support) (wearer) (eyeglass) (frame) (audio)] **Before** Priority Date: priority:20000602
9/26/2022 5:40:39 PM	Google Scholar	support wearer eyeglass frame audio
9/26/2022 5:40:39 PM	Google Patents	**Keyword Group 1** [support] **Keyword Group 2** [wearer] **Keyword Group 3** [eyeglass] **Keyword Group 4** [frame] **Keyword Group 5** [audio] **Before** Priority Date: priority:20000602
9/26/2022 5:40:45 PM	Google Scholar	(eyewear) (frame) (temple) (radio frequency) (frequency transceiver)
9/26/2022 5:40:45 PM	Google Patents	**Keyword Group 1** [(eyewear) (frame) (temple) (radio frequency) (frequency transceiver)] **Before** Priority Date: priority:20010430
9/26/2022 5:40:46 PM	Google Scholar	eyewear frame temple radio frequency frequency transceiver

date, time	web site	search string
9/26/2022 5:40:46 PM	Google Patents	**Keyword Group 1** [eyewear] **Keyword Group 2** [frame] **Keyword Group 3** [temple] **Keyword Group 4** [radio frequency] **Keyword Group 5** [frequency transceiver] **Before** Priority Date: priority:20010430
9/26/2022 5:40:53 PM	Google Scholar	(cord) (eyeglass) (tethered) (electrical) (recited)
9/26/2022 5:40:53 PM	Google Patents	**Keyword Group 1** [(cord) (eyeglass) (tethered) (electrical) (recited)] **Before** Priority Date: priority:20030415
9/26/2022 5:40:54 PM	Google Scholar	cord eyeglass tethered electrical recited
9/26/2022 5:40:54 PM	Google Patents	**Keyword Group 1** [cord] **Keyword Group 2** [eyeglass] **Keyword Group 3** [tethered] **Keyword Group 4** [electrical] **Keyword Group 5** [recited] **Before** Priority Date: priority:20030415
9/26/2022 5:41:01 PM	Google Scholar	(speaker) (audio device) (audio) (support) (wearable wireless)
9/26/2022 5:41:01 PM	Google Patents	**Keyword Group 1** [(speaker) (audio device) (audio) (support) (wearable wireless)] **Before** Priority Date: priority:20000602
9/26/2022 5:41:03 PM	Google Scholar	speaker audio device audio support wearable wireless

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date, time	web site	search string
9/26/2022 5:41:03 PM	Google Patents	**Keyword Group 1** [speaker] **Keyword Group 2** [audio device] **Keyword Group 3** [audio] **Keyword Group 4** [support] **Keyword Group 5** [wearable wireless] **Before** Priority Date: priority:20000602
9/26/2022 5:41:10 PM	Google Scholar	(radiation) (output) (electronic circuit) (recited) (monitoring)
9/26/2022 5:41:10 PM	Google Patents	**Keyword Group 1** [(radiation) (output) (electronic circuit) (recited) (monitoring)] **Before** Priority Date: priority:20040415
9/26/2022 5:41:11 PM	Google Scholar	radiation output electronic circuit recited monitoring
9/26/2022 5:41:11 PM	Google Patents	**Keyword Group 1** [radiation] **Keyword Group 2** [output] **Keyword Group 3** [electronic circuit] **Keyword Group 4** [recited] **Keyword Group 5** [monitoring] **Before** Priority Date: priority:20040415
9/26/2022 5:41:19 PM	Google Scholar	(eyeglasses) (wireless) (arms) (wireless communication) (frame)
9/26/2022 5:41:19 PM	Google Patents	**Keyword Group 1** [(eyeglasses) (wireless) (arms) (wireless communication) (frame)] **Before** Priority Date: priority:20030415
9/26/2022 5:41:21 PM	Google Scholar	eyeglasses wireless arms wireless communication frame

date, time	web site	search string
9/26/2022 5:41:21 PM	Google Patents	**Keyword Group 1** [eyeglasses] **Keyword Group 2** [wireless] **Keyword Group 3** [arms] **Keyword Group 4** [wireless communication] **Keyword Group 5** [frame] **Before** Priority Date: priority:20030415
9/26/2022 5:41:31 PM	Google Scholar	(coupled) (microphone) (speaker) (eyeglasses) (frame)
9/26/2022 5:41:31 PM	Google Patents	**Keyword Group 1** [(coupled) (microphone) (speaker) (eyeglasses) (frame)] **Before** Priority Date: priority:20010621
9/26/2022 5:41:33 PM	Google Scholar	coupled microphone speaker eyeglasses frame
9/26/2022 5:41:33 PM	Google Patents	**Keyword Group 1** [coupled] **Keyword Group 2** [microphone] **Keyword Group 3** [speaker] **Keyword Group 4** [eyeglasses] **Keyword Group 5** [frame] **Before** Priority Date: priority:20010621
9/26/2022 5:44:42 PM	Google Scholar	(radiation) (frame) (output) (eyewear) (glasses)
9/26/2022 5:44:42 PM	Google Patents	**Keyword Group 1** [(radiation) (frame) (output) (eyewear) (glasses)] **Before** Priority Date: priority:20040415
9/26/2022 5:44:44 PM	Google Scholar	radiation frame output eyewear glasses

date, time	web site	search string
9/26/2022 5:44:44 PM	Google Patents	**Keyword Group 1** [radiation] **Keyword Group 2** [frame] **Keyword Group 3** [output] **Keyword Group 4** [eyewear] **Keyword Group 5** [glasses] **Before** Priority Date: priority:20040415
9/26/2022 5:44:51 PM	Google Scholar	(optical) (optical element) (adjustable) (adjustable connector) (wearer)
9/26/2022 5:44:51 PM	Google Patents	**Keyword Group 1** [(optical) (optical element) (adjustable) (adjustable connector) (wearer)] **Before** Priority Date: priority:20061214
9/26/2022 5:44:52 PM	Google Scholar	optical optical element adjustable adjustable connector wearer
9/26/2022 5:44:52 PM	Google Patents	**Keyword Group 1** [optical] **Keyword Group 2** [optical element] **Keyword Group 3** [adjustable] **Keyword Group 4** [adjustable connector] **Keyword Group 5** [wearer] **Before** Priority Date: priority:20061214
9/26/2022 5:44:59 PM	Google Scholar	(speaker) (module) (detachable module) (earstem)
9/26/2022 5:44:59 PM	Google Patents	**Keyword Group 1** [(speaker) (module) (detachable module) (earstem)] **Assignee(s)** [detachable] **Before** Priority Date: priority:20000602

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date, time	web site	search string
9/26/2022 5:45:01 PM	Google Scholar	speaker module detachable module detachable earstem
9/26/2022 5:45:01 PM	Google Patents	**Keyword Group 1** [speaker] **Keyword Group 2** [module] **Keyword Group 3** [detachable module] **Keyword Group 4** [detachable] **Keyword Group 5** [earstem] **Before** Priority Date: priority:20000602
9/26/2022 5:45:12 PM	Google Scholar	(electro) (active) (frame) (spectacles) (electronic module)
9/26/2022 5:45:12 PM	Google Patents	**Keyword Group 1** [(electro) (active) (frame) (spectacles) (electronic module)] **Before** Priority Date: priority:20090109
9/26/2022 5:45:13 PM	Google Scholar	electro active frame spectacles electronic module
9/26/2022 5:45:13 PM	Google Patents	**Keyword Group 1** [electro] **Keyword Group 2** [active] **Keyword Group 3** [frame] **Keyword Group 4** [spectacles] **Keyword Group 5** [electronic module] **Before** Priority Date: priority:20090109
9/26/2022 5:45:22 PM	Google Scholar	(glasses) (audio signals) (user) (frame) (hearing)
9/26/2022 5:45:22 PM	Google Patents	**Keyword Group 1** [(glasses) (audio signals) (user) (frame) (hearing)] **Before** Priority Date: priority:20031009

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date, time	web site	search string
9/26/2022 5:45:23 PM	Google Scholar	glasses audio signals user frame hearing
9/26/2022 5:45:23 PM	Google Patents	Keyword Group 1 [glasses] Keyword Group 2 [audio signals] Keyword Group 3 [user] Keyword Group 4 [frame] Keyword Group 5 [hearing] Before Priority Date: priority:20031009
9/26/2022 5:45:31 PM	Google Scholar	(frame) (electro) (active) (module) (electronic)
9/26/2022 5:45:31 PM	Google Patents	Keyword Group 1 [(frame) (electro) (active) (module) (electronic)] Before Priority Date: priority:20060503
9/26/2022 5:45:33 PM	Google Scholar	frame electro active module electronic
9/26/2022 5:45:33 PM	Google Patents	Keyword Group 1 [frame] Keyword Group 2 [electro] Keyword Group 3 [active] Keyword Group 4 [module] Keyword Group 5 [electronic] Before Priority Date: priority:20060503

Web Search History

date, time	web site	search string
9/27/2022 8:04:44 AM	Google Scholar	(ear) (transducer) (wearer) (insert) (sound)
9/27/2022 8:04:44 AM	Google Patents	Keyword Group 1 [(ear) (transducer) (wearer) (insert) (sound)] Before Priority Date: priority:19950919
9/27/2022 8:04:45 AM	Google Scholar	ear transducer wearer insert sound
9/27/2022 8:04:45 AM	Google Patents	Keyword Group 1 [ear] Keyword Group 2 [transducer] Keyword Group 3 [wearer] Keyword Group 4 [insert] Keyword Group 5 [sound] Before Priority Date: priority:19950919
9/27/2022 8:04:46 AM	Google Scholar	(speaker) (audio device) (audio) (support) (wearable wireless)
9/27/2022 8:04:53 AM	Google Scholar	(unit) (audio) (section) (signal) (output)
9/27/2022 8:04:53 AM	Google Patents	Keyword Group 1 [(unit) (audio) (section) (signal) (output)] Before Priority Date: priority:19970703
9/27/2022 8:04:54 AM	Google Scholar	unit audio section signal output

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date, time	web site	search string
9/27/2022 8:04:54 AM	Google Patents	**Keyword Group 1** [unit] **Keyword Group 2** [audio] **Keyword Group 3** [section] **Keyword Group 4** [signal] **Keyword Group 5** [output] **Before** Priority Date: priority:19970703
9/27/2022 8:05:03 AM	Google Scholar	(audio) (loop member) (individual) (wearable personal) (audio apparatus)
9/27/2022 8:05:03 AM	Google Patents	**Keyword Group 1** [(audio) (loop member) (individual) (wearable personal) (audio apparatus)] **Before** Priority Date: priority:19960812
9/27/2022 8:05:04 AM	Google Scholar	audio loop member individual wearable personal audio apparatus
9/27/2022 8:05:04 AM	Google Patents	**Keyword Group 1** [audio] **Keyword Group 2** [loop member] **Keyword Group 3** [individual] **Keyword Group 4** [wearable personal] **Keyword Group 5** [audio apparatus] **Before** Priority Date: priority:19960812
9/27/2022 8:05:07 AM	Google Patents	**Keyword Group 1** [(speaker) (audio device) (audio) (support) (wearable wireless)] **Before** Priority Date: priority:20000602
9/27/2022 8:05:34 AM	Google Scholar	(image) (display) (receiving) (fiber optic) (head)

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date, time	web site	search string
9/27/2022 8:05:34 AM	Google Patents	Keyword Group 1 [(image) (display) (receiving) (fiber optic) (head)] Before Priority Date: priority:19970509
9/27/2022 8:05:35 AM	Google Scholar	image display receiving fiber optic head
9/27/2022 8:05:35 AM	Google Patents	Keyword Group 1 [image] Keyword Group 2 [display] Keyword Group 3 [receiving] Keyword Group 4 [fiber optic] Keyword Group 5 [head] Before Priority Date: priority:19970509
9/27/2022 8:05:35 AM	Google Scholar	speaker audio device audio support wearable wireless
9/27/2022 8:05:47 AM	Google Scholar	(portable access) (access unit) (general purpose) (data) (media device)
9/27/2022 8:05:47 AM	Google Patents	Keyword Group 1 [(portable access) (access unit) (general purpose) (data) (media device)] Before Priority Date: priority:19990115
9/27/2022 8:05:48 AM	Google Scholar	portable access access unit general purpose data media device
9/27/2022 8:05:48 AM	Google Patents	Keyword Group 1 [portable access] Keyword Group 2 [access unit] Keyword Group 3 [general purpose] Keyword Group 4 [data] Keyword Group 5 [media device] Before Priority Date: priority:19990115

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date, time	web site	search string
9/27/2022 8:05:57 AM	Google Scholar	(audio) (audio signal) (voice) (vra) (signals)
9/27/2022 8:05:57 AM	Google Patents	Keyword Group 1 [(audio) (audio signal) (voice) (vra) (signals)] Before Priority Date: priority:19980414
9/27/2022 8:05:58 AM	Google Scholar	audio audio signal voice vra signals
9/27/2022 8:05:58 AM	Google Patents	Keyword Group 1 [audio] Keyword Group 2 [audio signal] Keyword Group 3 [voice] Keyword Group 4 [vra] Keyword Group 5 [signals] Before Priority Date: priority:19980414
9/27/2022 8:06:00 AM	Google Patents	Keyword Group 1 [speaker] Keyword Group 2 [audio device] Keyword Group 3 [audio] Keyword Group 4 [support] Keyword Group 5 [wearable wireless] Before Priority Date: priority:20000602
9/27/2022 8:40:42 AM	Google Scholar	(spectacles) (hearing aid) (bow) (bone) (head)
9/27/2022 8:40:42 AM	Google Patents	Keyword Group 1 [(spectacles) (hearing aid) (bow) (bone) (head)] Before Priority Date: priority:19441218
9/27/2022 8:40:43 AM	Google Scholar	spectacles hearing aid bow bone head

date, time	web site	search string
9/27/2022 8:40:43 AM	Google Patents	Keyword Group 1 [spectacles] Keyword Group 2 [hearing aid] Keyword Group 3 [bow] Keyword Group 4 [bone] Keyword Group 5 [head] Before Priority Date: priority:19441218
9/27/2022 8:40:49 AM	Google Scholar	(temple) (amplifier) (hearing aid) (bow) (conductors)
9/27/2022 8:40:49 AM	Google Patents	Keyword Group 1 [(temple) (amplifier) (hearing aid) (bow) (conductors)] Before Priority Date: priority:19560126
9/27/2022 8:40:50 AM	Google Scholar	temple amplifier hearing aid bow conductors
9/27/2022 8:40:50 AM	Google Patents	Keyword Group 1 [temple] Keyword Group 2 [amplifier] Keyword Group 3 [hearing aid] Keyword Group 4 [bow] Keyword Group 5 [conductors] Before Priority Date: priority:19560126
9/27/2022 8:40:58 AM	Google Scholar	(battery) (hearing aid) (case) (sound) (frame)
9/27/2022 8:40:58 AM	Google Patents	Keyword Group 1 [(battery) (hearing aid) (case) (sound) (frame)] Before Priority Date: priority:19570726
9/27/2022 8:40:59 AM	Google Scholar	battery hearing aid case sound frame

date, time	web site	search string
9/27/2022 8:40:59 AM	Google Patents	**Keyword Group 1** [battery] **Keyword Group 2** [hearing aid] **Keyword Group 3** [case] **Keyword Group 4** [sound] **Keyword Group 5** [frame] **Before** Priority Date: priority:19570726
9/27/2022 8:41:05 AM	Google Scholar	(hearing aid) (aperture) (housing) (ear) (bow)
9/27/2022 8:41:05 AM	Google Patents	**Keyword Group 1** [(hearing aid) (aperture) (housing) (ear) (bow)] **Before** Priority Date: priority:19560106
9/27/2022 8:41:06 AM	Google Scholar	hearing aid aperture housing ear bow
9/27/2022 8:41:06 AM	Google Patents	**Keyword Group 1** [hearing aid] **Keyword Group 2** [aperture] **Keyword Group 3** [housing] **Keyword Group 4** [ear] **Keyword Group 5** [bow] **Before** Priority Date: priority:19560106
9/27/2022 8:41:13 AM	Google Scholar	(hearing aid) (temple) (temples) (microphone) (housing)
9/27/2022 8:41:13 AM	Google Patents	**Keyword Group 1** [(hearing aid) (temple) (temples) (microphone) (housing)] **Before** Priority Date: priority:19570225
9/27/2022 8:41:14 AM	Google Scholar	hearing aid temple temples microphone housing

date, time	web site	search string
9/27/2022 8:41:14 AM	Google Patents	Keyword Group 1 [hearing aid] Keyword Group 2 [temple] Keyword Group 3 [temples] Keyword Group 4 [microphone] Keyword Group 5 [housing] Before Priority Date: priority:19570225
9/27/2022 8:41:21 AM	Google Scholar	(hearing aid) (temples) (temple) (circuit) (recess)
9/27/2022 8:41:21 AM	Google Patents	Keyword Group 1 [(hearing aid) (temples) (temple) (circuit) (recess)] Before Priority Date: priority:19551208
9/27/2022 8:41:22 AM	Google Scholar	hearing aid temples temple circuit recess
9/27/2022 8:41:22 AM	Google Patents	Keyword Group 1 [hearing aid] Keyword Group 2 [temples] Keyword Group 3 [temple] Keyword Group 4 [circuit] Keyword Group 5 [recess] Before Priority Date: priority:19551208
9/27/2022 8:41:28 AM	Google Scholar	(lens) (eyeglasses) (eye) (makeup) (eyes)
9/27/2022 8:41:28 AM	Google Patents	Keyword Group 1 [(lens) (eyeglasses) (eye) (makeup) (eyes)] Before Priority Date: priority:19670323
9/27/2022 8:41:30 AM	Google Scholar	lens eyeglasses eye makeup eyes

date, time	web site	search string
9/27/2022 8:41:30 AM	Google Patents	**Keyword Group 1** [lens] **Keyword Group 2** [eyeglasses] **Keyword Group 3** [eye] **Keyword Group 4** [makeup] **Keyword Group 5** [eyes] **Before** Priority Date: priority:19670323
9/27/2022 8:41:36 AM	Google Scholar	(shells) (headset) (microphone) (earphone) (clips)
9/27/2022 8:41:36 AM	Google Patents	**Keyword Group 1** [(shells) (headset) (microphone) (earphone) (clips)] **Before** Priority Date: priority:19681216
9/27/2022 8:41:37 AM	Google Scholar	shells headset microphone earphone clips
9/27/2022 8:41:37 AM	Google Patents	**Keyword Group 1** [shells] **Keyword Group 2** [headset] **Keyword Group 3** [microphone] **Keyword Group 4** [earphone] **Keyword Group 5** [clips] **Before** Priority Date: priority:19681216
9/27/2022 9:09:46 AM	Google Scholar	(penlight) (temple) (arms) (clip) (body portion)
9/27/2022 9:09:46 AM	Google Patents	**Keyword Group 1** [(penlight) (temple) (arms) (clip) (body portion)] **Before** Priority Date: priority:19720504
9/27/2022 9:09:47 AM	Google Scholar	penlight temple arms clip body portion

date, time	web site	search string
9/27/2022 9:09:47 AM	Google Patents	**Keyword Group 1** [penlight] **Keyword Group 2** [temple] **Keyword Group 3** [arms] **Keyword Group 4** [clip] **Keyword Group 5** [body portion] **Before** Priority Date: priority:19720504
9/27/2022 9:09:54 AM	Google Scholar	(temple) (tip) (electrical) (members) (engageable)
9/27/2022 9:09:54 AM	Google Patents	**Keyword Group 1** [(temple) (tip) (electrical) (members) (engageable)] **Before** Priority Date: priority:19710318
9/27/2022 9:09:55 AM	Google Scholar	temple tip electrical members engageable
9/27/2022 9:09:55 AM	Google Patents	**Keyword Group 1** [temple] **Keyword Group 2** [tip] **Keyword Group 3** [electrical] **Keyword Group 4** [members] **Keyword Group 5** [engageable] **Before** Priority Date: priority:19710318
9/27/2022 9:10:01 AM	Google Scholar	(eyeglasses) (leg portion) (straight) (mounting band) (holding)
9/27/2022 9:10:01 AM	Google Patents	**Keyword Group 1** [(eyeglasses) (leg portion) (straight) (mounting band) (holding)] **Before** Priority Date: priority:19841113
9/27/2022 9:10:03 AM	Google Scholar	eyeglasses leg portion straight mounting band holding

date, time	web site	search string
9/27/2022 9:10:03 AM	Google Patents	**Keyword Group 1** [eyeglasses] **Keyword Group 2** [leg portion] **Keyword Group 3** [straight] **Keyword Group 4** [mounting band] **Keyword Group 5** [holding] **Before** Priority Date: priority:19841113
9/27/2022 9:10:09 AM	Google Scholar	(tubing) (transducer) (sound) (housing) (section)
9/27/2022 9:10:09 AM	Google Patents	**Keyword Group 1** [(tubing) (transducer) (sound) (housing) (section)] **Before** Priority Date: priority:19850611
9/27/2022 9:10:11 AM	Google Scholar	tubing transducer sound housing section
9/27/2022 9:10:11 AM	Google Patents	**Keyword Group 1** [tubing] **Keyword Group 2** [transducer] **Keyword Group 3** [sound] **Keyword Group 4** [housing] **Keyword Group 5** [section] **Before** Priority Date: priority:19850611
9/27/2022 9:10:17 AM	Google Scholar	(temples) (frame) (radio) (loud speakers) (speakers)
9/27/2022 9:10:17 AM	Google Patents	**Keyword Group 1** [(temples) (frame) (radio) (loud speakers) (speakers)] **Before** Priority Date: priority:19871120
9/27/2022 9:10:18 AM	Google Scholar	temples frame radio loud speakers speakers

date, time	web site	search string
9/27/2022 9:10:18 AM	Google Patents	Keyword Group 1 [temples] Keyword Group 2 [frame] Keyword Group 3 [radio] Keyword Group 4 [loud speakers] Keyword Group 5 [speakers] Before Priority Date: priority:19871120
9/27/2022 9:10:26 AM	Google Scholar	(radio) (top frame) (pair) (housing) (slot)
9/27/2022 9:10:26 AM	Google Patents	Keyword Group 1 [(radio) (top frame) (pair) (housing) (slot)] Before Priority Date: priority:19880705
9/27/2022 9:10:27 AM	Google Scholar	radio top frame pair housing slot
9/27/2022 9:10:27 AM	Google Patents	Keyword Group 1 [radio] Keyword Group 2 [top frame] Keyword Group 3 [pair] Keyword Group 4 [housing] Keyword Group 5 [slot] Before Priority Date: priority:19880705
9/27/2022 9:10:34 AM	Google Scholar	(eyeglasses) (earpiece) (headphone) (attached) (temples)
9/27/2022 9:10:34 AM	Google Patents	Keyword Group 1 [(eyeglasses) (earpiece) (headphone) (attached) (temples)] Before Priority Date: priority:19881122
9/27/2022 9:10:35 AM	Google Scholar	eyeglasses earpiece headphone attached temples

date, time	web site	search string
9/27/2022 9:10:35 AM	Google Patents	**Keyword Group 1** [eyeglasses] **Keyword Group 2** [earpiece] **Keyword Group 3** [headphone] **Keyword Group 4** [attached] **Keyword Group 5** [temples] **Before** Priority Date: priority:19881122
9/27/2022 9:10:41 AM	Google Scholar	(temple) (sound) (combination according) (hearing) (wearer)
9/27/2022 9:10:41 AM	Google Patents	**Keyword Group 1** [(temple) (sound) (combination according) (hearing) (wearer)] **Before** Priority Date: priority:19840322
9/27/2022 9:10:42 AM	Google Scholar	temple sound combination according hearing wearer
9/27/2022 9:10:42 AM	Google Patents	**Keyword Group 1** [temple] **Keyword Group 2** [sound] **Keyword Group 3** [combination according] **Keyword Group 4** [hearing] **Keyword Group 5** [wearer] **Before** Priority Date: priority:19840322
9/27/2022 9:42:18 AM	Google Scholar	(solar energy) (battery) (nose bridge) (bridge element) (lens)
9/27/2022 9:42:18 AM	Google Patents	**Keyword Group 1** [(solar energy) (battery) (nose bridge) (bridge element) (lens)] **Before** Priority Date: priority:19891107

date, time	web site	search string
9/27/2022 9:42:19 AM	Google Scholar	solar energy battery nose bridge bridge element lens
9/27/2022 9:42:19 AM	Google Patents	Keyword Group 1 [solar energy] Keyword Group 2 [battery] Keyword Group 3 [nose bridge] Keyword Group 4 [bridge element] Keyword Group 5 [lens] Before Priority Date: priority:19891107
9/27/2022 9:42:25 AM	Google Scholar	(housing) (listening device) (assistive listening) (door) (sound)
9/27/2022 9:42:25 AM	Google Patents	Keyword Group 1 [(housing) (listening device) (assistive listening) (door) (sound)] Before Priority Date: priority:19910219
9/27/2022 9:42:26 AM	Google Scholar	housing listening device assistive listening door sound
9/27/2022 9:42:26 AM	Google Patents	Keyword Group 1 [housing] Keyword Group 2 [listening device] Keyword Group 3 [assistive listening] Keyword Group 4 [door] Keyword Group 5 [sound] Before Priority Date: priority:19910219
9/27/2022 9:42:32 AM	Google Scholar	(stem) (sleeve) (ear) (loudspeaker) (user)
9/27/2022 9:42:32 AM	Google Patents	Keyword Group 1 [(stem) (sleeve) (ear) (loudspeaker) (user)] Before Priority Date: priority:19910617

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date, time	web site	search string
9/27/2022 9:42:33 AM	Google Scholar	stem sleeve ear loudspeaker user
9/27/2022 9:42:33 AM	Google Patents	Keyword Group 1 [stem] Keyword Group 2 [sleeve] Keyword Group 3 [ear] Keyword Group 4 [loudspeaker] Keyword Group 5 [user] Before Priority Date: priority:19910617
9/27/2022 9:42:42 AM	Google Scholar	(speaker) (wearer) (temples) (frame) (earphone)
9/27/2022 9:42:42 AM	Google Patents	Keyword Group 1 [(speaker) (wearer) (temples) (frame) (earphone)] Before Priority Date: priority:19920611
9/27/2022 9:42:43 AM	Google Scholar	speaker wearer temples frame earphone
9/27/2022 9:42:43 AM	Google Patents	Keyword Group 1 [speaker] Keyword Group 2 [wearer] Keyword Group 3 [temples] Keyword Group 4 [frame] Keyword Group 5 [earphone] Before Priority Date: priority:19920611
9/27/2022 9:42:50 AM	Google Scholar	(sleeve) (flexible) (hollow) (pair) (accessory)
9/27/2022 9:42:50 AM	Google Patents	Keyword Group 1 [(sleeve) (flexible) (hollow) (pair) (accessory)] Before Priority Date: priority:19920214

date, time	web site	search string
9/27/2022 9:42:51 AM	Google Scholar	sleeve flexible hollow pair accessory
9/27/2022 9:42:51 AM	Google Patents	**Keyword Group 1** [sleeve] **Keyword Group 2** [flexible] **Keyword Group 3** [hollow] **Keyword Group 4** [pair] **Keyword Group 5** [accessory] **Before** Priority Date: priority:19920214
9/27/2022 9:42:57 AM	Google Scholar	(speakers) (pair) (speaker) (user) (iadd)
9/27/2022 9:42:57 AM	Google Patents	**Keyword Group 1** [(speakers) (pair) (speaker) (user) (iadd)] **Before** Priority Date: priority:19860804
9/27/2022 9:42:58 AM	Google Scholar	speakers pair speaker user iadd
9/27/2022 9:42:58 AM	Google Patents	**Keyword Group 1** [speakers] **Keyword Group 2** [pair] **Keyword Group 3** [speaker] **Keyword Group 4** [user] **Keyword Group 5** [iadd] **Before** Priority Date: priority:19860804
9/27/2022 9:43:05 AM	Google Scholar	(hearing aid) (casing) (wearer) (rear surface) (clasp)
9/27/2022 9:43:05 AM	Google Patents	**Keyword Group 1** [(hearing aid) (casing) (wearer) (rear surface) (clasp)] **Before** Priority Date: priority:19940815

date, time	web site	search string
9/27/2022 9:43:07 AM	Google Scholar	hearing aid casing wearer rear surface clasp
9/27/2022 9:43:07 AM	Google Patents	**Keyword Group 1** [hearing aid] **Keyword Group 2** [casing] **Keyword Group 3** [wearer] **Keyword Group 4** [rear surface] **Keyword Group 5** [clasp] **Before** Priority Date: priority:19940815
9/27/2022 9:43:13 AM	Google Scholar	(headphones) (arms) (right eyeglass) (eyeglass) (receivers)
9/27/2022 9:43:13 AM	Google Patents	**Keyword Group 1** [(headphones) (arms) (right eyeglass) (eyeglass) (receivers)] **Before** Priority Date: priority:19920717
9/27/2022 9:43:14 AM	Google Scholar	headphones arms right eyeglass eyeglass receivers
9/27/2022 9:43:14 AM	Google Patents	**Keyword Group 1** [headphones] **Keyword Group 2** [arms] **Keyword Group 3** [right eyeglass] **Keyword Group 4** [eyeglass] **Keyword Group 5** [receivers] **Before** Priority Date: priority:19920717
9/27/2022 9:43:20 AM	Google Scholar	(brow) (bow) (framework) (bow portions) (speakers)
9/27/2022 9:43:20 AM	Google Patents	**Keyword Group 1** [(brow) (bow) (framework) (bow portions) (speakers)] **Before** Priority Date: priority:19910122

date, time	web site	search string
9/27/2022 9:43:21 AM	Google Scholar	brow bow framework bow portions speakers
9/27/2022 9:43:21 AM	Google Patents	Keyword Group 1 [brow] Keyword Group 2 [bow] Keyword Group 3 [framework] Keyword Group 4 [bow portions] Keyword Group 5 [speakers] Before Priority Date: priority:19910122
9/27/2022 10:12:32 AM	Google Scholar	(visor) (elongated) (communications) (recited) (support member)
9/27/2022 10:12:32 AM	Google Patents	Keyword Group 1 [(visor) (elongated) (communications) (recited) (support member)] Before Priority Date: priority:19950530
9/27/2022 10:12:33 AM	Google Scholar	visor elongated communications recited support member
9/27/2022 10:12:33 AM	Google Patents	Keyword Group 1 [visor] Keyword Group 2 [elongated] Keyword Group 3 [communications] Keyword Group 4 [recited] Keyword Group 5 [support member] Before Priority Date: priority:19950530
9/27/2022 10:12:39 AM	Google Scholar	(ear) (transducer) (audio) (wearer) (insert member)
9/27/2022 10:12:39 AM	Google Patents	Keyword Group 1 [(ear) (transducer) (audio) (wearer) (insert member)] Before Priority Date: priority:19950919

date, time	web site	search string
9/27/2022 10:12:40 AM	Google Scholar	ear transducer audio wearer insert member
9/27/2022 10:12:40 AM	Google Patents	Keyword Group 1 [ear] Keyword Group 2 [transducer] Keyword Group 3 [audio] Keyword Group 4 [wearer] Keyword Group 5 [insert member] Before Priority Date: priority:19950919
9/27/2022 10:12:46 AM	Google Scholar	(elongate) (pair) (tube) (tubes) (primary)
9/27/2022 10:12:46 AM	Google Patents	Keyword Group 1 [(elongate) (pair) (tube) (tubes) (primary)] Before Priority Date: priority:19961007
9/27/2022 10:12:48 AM	Google Scholar	elongate pair tube tubes primary
9/27/2022 10:12:48 AM	Google Patents	Keyword Group 1 [elongate] Keyword Group 2 [pair] Keyword Group 3 [tube] Keyword Group 4 [tubes] Keyword Group 5 [primary] Before Priority Date: priority:19961007
9/27/2022 10:13:09 AM	Google Scholar	(ear) (audio) (set forth) (wearer) (module)
9/27/2022 10:13:09 AM	Google Patents	Keyword Group 1 [(ear) (audio) (set forth) (wearer) (module)] Before Priority Date: priority:19950919

date, time	web site	search string
9/27/2022 10:13:10 AM	Google Scholar	ear audio set forth wearer module
9/27/2022 10:13:10 AM	Google Patents	**Keyword Group 1** [ear] **Keyword Group 2** [audio] **Keyword Group 3** [set forth] **Keyword Group 4** [wearer] **Keyword Group 5** [module] **Before** Priority Date: priority:19950919
9/27/2022 10:13:17 AM	Google Scholar	(attached) (earplug) (human) (temple) (front guard)
9/27/2022 10:13:17 AM	Google Patents	**Keyword Group 1** [(attached) (earplug) (human) (temple) (front guard)] **Before** Priority Date: priority:19970606
9/27/2022 10:13:19 AM	Google Scholar	attached earplug human temple front guard
9/27/2022 10:13:19 AM	Google Patents	**Keyword Group 1** [attached] **Keyword Group 2** [earplug] **Keyword Group 3** [human] **Keyword Group 4** [temple] **Keyword Group 5** [front guard] **Before** Priority Date: priority:19970606
9/27/2022 10:13:25 AM	Google Scholar	(arm) (earphone) (user) (temple pieces) (integral)
9/27/2022 10:13:25 AM	Google Patents	**Keyword Group 1** [(arm) (earphone) (user) (temple pieces) (integral)] **Before** Priority Date: priority:19970819

date, time	web site	search string
9/27/2022 10:13:26 AM	Google Scholar	arm earphone user temple pieces integral
9/27/2022 10:13:26 AM	Google Patents	**Keyword Group 1** [arm] **Keyword Group 2** [earphone] **Keyword Group 3** [user] **Keyword Group 4** [temple pieces] **Keyword Group 5** [integral] **Before** Priority Date: priority:19970819
9/27/2022 10:13:37 AM	Google Scholar	(headphone) (eyeglasses) (combination) (arms) (ear)
9/27/2022 10:13:37 AM	Google Patents	**Keyword Group 1** [(headphone) (eyeglasses) (combination) (arms) (ear)] **Before** Priority Date: priority:19971027
9/27/2022 10:13:38 AM	Google Scholar	headphone eyeglasses combination arms ear
9/27/2022 10:13:38 AM	Google Patents	**Keyword Group 1** [headphone] **Keyword Group 2** [eyeglasses] **Keyword Group 3** [combination] **Keyword Group 4** [arms] **Keyword Group 5** [ear] **Before** Priority Date: priority:19971027
9/27/2022 10:13:49 AM	Google Scholar	(lens region) (hinge) (segment) (arms) (audio eyeglasses)
9/27/2022 10:13:49 AM	Google Patents	**Keyword Group 1** [(lens region) (hinge) (segment) (arms) (audio eyeglasses)] **Before** Priority Date: priority:20180731

date, time	web site	search string
9/27/2022 10:13:50 AM	Google Scholar	lens region hinge segment arms audio eyeglasses
9/27/2022 10:13:50 AM	Google Patents	Keyword Group 1 [lens region] Keyword Group 2 [hinge] Keyword Group 3 [segment] Keyword Group 4 [arms] Keyword Group 5 [audio eyeglasses] Before Priority Date: priority:20180731
9/27/2022 10:14:31 AM	Google Scholar	(audio) (acoustic) (acoustic transducer) (array) (user)
9/27/2022 10:14:31 AM	Google Patents	Keyword Group 1 [(audio) (acoustic) (acoustic transducer) (array) (user)] Before Priority Date: priority:20190807
9/27/2022 10:14:33 AM	Google Scholar	audio acoustic acoustic transducer array user
9/27/2022 10:14:33 AM	Google Patents	Keyword Group 1 [audio] Keyword Group 2 [acoustic] Keyword Group 3 [acoustic transducer] Keyword Group 4 [array] Keyword Group 5 [user] Before Priority Date: priority:20190807
9/27/2022 10:14:44 AM	Google Scholar	(wireless) (earphone) (headphone assembly) (network) (wireless network)
9/27/2022 10:14:44 AM	Google Patents	Keyword Group 1 [(wireless) (earphone) (headphone assembly) (network) (wireless network)] Before Priority Date: priority:20080407

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date, time	web site	search string
9/27/2022 10:14:45 AM	Google Scholar	wireless earphone headphone assembly network wireless network
9/27/2022 10:14:45 AM	Google Patents	**Keyword Group 1** [wireless] **Keyword Group 2** [earphone] **Keyword Group 3** [headphone assembly] **Keyword Group 4** [network] **Keyword Group 5** [wireless network] **Before** Priority Date: priority:20080407

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	10822218	1)Thomas, C. Douglass, 2)Tong, Peter P.	EYEGLASSES FOR WIRELESS COMMUNICATIONS	04/12/2004	US 60527565 US 10462591 US 10822218 US 60509631	US 20060003803 A1 US 7792552 B2	01/05/2006 09/07/2010
US	10964011	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	TETHERED ELECTRICAL COMPONENTS FOR EYEGLASSES	10/12/2004	US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60618107 US 10462591 US 60605191 US 60592045	US 20050078274 A1 US 7192136 B2	04/14/2005 03/20/2007
US	11006343	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	12/07/2004	US 11006343 US 60527565	US 20050124324 A1 US 7116976 B2	06/09/2005 10/03/2006
US	11078857			03/11/2005	US 60647826 US 60583169 US 60562798 US 60620238 US 60618107 US 60605191 US 11078857 US 60592045 US 60647836	US 20050230596 A1	10/20/2005
US	11078855	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR WITH RADIATION DETECTION SYSTEM	03/11/2005	US 60647826 US 60583169 US 11078855 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20090059159 A1 US 7500746 B1	03/05/2009 03/10/2009
CN	200510067143			04/14/2005	US 60562798	CN 1700059 A CN 100580507 C	11/23/2005 01/13/2010
CN	200520016479			04/14/2005	US 60562798	CN 2859575 Y	01/17/2007

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	11183269	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING AFTER-MARKET ELECTRICAL COMPONENTS	07/15/2005	US 60647826 US 60527565 US 60583169 US 11183269 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050264752 A1 US 7922321 B2	12/01/2005 04/12/2011
US	11183263	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH A CLOCK OR OTHER ELECTRICAL COMPONENT	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 11183263 US 60592045 US 60647836	US 20060001827 A1 US 7380936 B2	01/05/2006 06/03/2008
US	11183256	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH ELECTRICAL COMPONENTS	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 11183256 US 60592045 US 60647836	US 20060023158 A1 US 7500747 B2	02/02/2006 03/10/2009
US	11183262	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH HEARING ENHANCED AND OTHER AUDIO SIGNAL-GENERATING CAPABILITIES	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 11183262 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050248717 A1 US 7760898 B2	11/10/2005 07/20/2010
US	11183283	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	Event eyeglasses	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 11183283 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050248719 A1	11/10/2005

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	11183276	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH ACTIVITY MONITORING	07/15/2005	US 60647826 US 60527565 US 60583169 US 11183276 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050248718 A1 US 7255437 B2	11/10/2005 08/14/2007
US	PCT/US06/22015	1)CHEUNG, Kwok, Wai, , 2)TONG, Peter, P ,;, 3)IPVENTURE, INC.,	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	06/07/2006	US 60689686	WO 2006135614 A2 WO 2006135614 A3 WO 2006135614 A8 WO 2006135614 A9	12/21/2006 03/22/2007 07/10/2008 12/11/2008
CN	200680027964			06/07/2006	US 60689686	CN 101297191 A	10/29/2008
US	11452115	1)Cheung, Kwok Wai, 2)Tong, Peter P., 3)Thomas, C. Douglass	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	06/12/2006	US 11452115 US 60689686 US 11006343 US 60527565	US 20060259565 A1 US 7729688 B2	11/16/2006 06/01/2010
US	11497651	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	08/02/2006	US 11006343 US 60527565 US 11497651	US 20060276210 A1 US 7376434 B2	12/07/2006 05/20/2008
US	11521256	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	TETHERED ELECTRICAL COMPONENTS FOR EYEGLASSES	09/13/2006	US 11521256 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60605191 US 60592045	US 7438410 B1	10/21/2008

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	11580222	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING AFTER-MARKET ELECTRICAL COMPONENTS	10/11/2006	US 60583169 US 60725896 US 11183269 US 60787850 US 60846150 US 10964011 US 60725999 US 60527565 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60605191 US 60592045 US 60647836	US 20070046887 A1 US 7581833 B2	03/01/2007 09/01/2009
US	11546685	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES HAVING A CAMERA	10/11/2006	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 60725999 US 11183256 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20070030442 A1 US 7806525 B2	02/08/2007 10/05/2010
US	11650626	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Day, Robert Grant,5)Tong, Peter P.	EYEGLASSES WITH A HEART RATE MONITOR	01/06/2007	US 11650626 US 60583169 US 60787850 US 60846150 US 10964011 US 11183256 US 60647826 US 60527565 US 60509631 US 60763854 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20070109491 A1 US 7677723 B2	05/17/2007 03/16/2010
US	11700550			01/30/2007	US 60583169 US 11700550 US 11078855 US 60787850 US 60846150 US 60647826 US 60763854 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20070186330 A1	08/16/2007

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CN	200710090621			04/02/2007	US 60787850	CN 101046557 A	10/03/2007
US	11891411	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH ACTIVITY MONITORING	08/09/2007	US 60583169 US 11183276 US 10964011 US 11891411 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20070279584 A1 US 7401918 B2	12/06/2007 07/22/2008
US	11903512	1)Howell, Thomas A., 2)Chao, David ,3)Lee, Yeou-Soon ,4)Thomas, C. Douglass,5)Tong, Peter P.	EYEGLASSES WITH ACTIVITY MONITORING AND ACOUSTIC DAMPENING	09/20/2007	US 60846150 US 11903512	US 20080068559 A1 US 7543934 B2	03/20/2008 06/09/2009
US	12074302	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	TETHERED ELECTRICAL COMPONENTS FOR EYEGLASSES	03/03/2008	US 11521256 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 12074302 US 60605191 US 60592045	US 20080151179 A1 US 7621634 B2	06/26/2008 11/24/2009
US	12074961	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	03/07/2008	US 11497651 US 12074961 US 11006343 US 60527565	US 7890128 B1	02/15/2011
US	12152480	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH RFID TAGS OR WITH A STRAP	05/13/2008	US 60647826 US 60620238 US 60618107 US 60605191 US 11183263 US 12152480 US 60592045 US 60647836	US 20080218684 A1 US 8337013 B2	09/11/2008 12/25/2012
US	12214435	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH USER MONITORING	06/19/2008	US 60583169 US 11183276 US 10964011 US 11891411 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 12214435 US 60605191 US 60592045 US 60647836	US 20080278678 A1 US 7481531 B2	11/13/2008 01/27/2009

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US	12317043	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR WITH MONITORING CAPABILITY	12/18/2008	US 60583169 US 11183276 US 10964011 US 11891411 US 12317043 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 12214435 US 60605191 US 60592045 US 60647836	US 20090141233 A1 US 7771046 B2	06/04/2009 08/10/2010
US	12322377	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	Eyewear with radiation detection system	02/02/2009	US 60647826 US 60583169 US 12322377 US 11078855 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20090147215 A1 US 8770742 B2	06/11/2009 07/08/2014
US	12462286	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING ELECTRICAL COMPONENTS AND APPARATUS THEREFOR	07/31/2009	US 60583169 US 60725896 US 11183269 US 60787850 US 60846150 US 10964011 US 60725999 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60605191 US 12462286 US 60592045 US 60647836	US 20090296044 A1 US 8109629 B2	12/03/2009 02/07/2012
US	12798995	1)Cheung, Kwok Wai, 2)Tong, Peter P., 3)Thomas, C. Douglass	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	04/14/2010	US 11452115 US 60689686 US 11006343 US 60527565 US 12798995	US 20100205272 A1 US 8744407 B2	08/12/2010 06/03/2014

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US	12803732	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH A PRINTED CIRCUIT BOARD	07/01/2010	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20110102734 A1 US 8434863 B2	05/05/2011 05/07/2013
US	12806312	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR WITH MULTI-PART TEMPLE FOR SUPPORTING ONE OR MORE ELECTRICAL COMPONENTS	08/10/2010	US 60583169 US 60725896 US 60787850 US 10822218 US 11891411 US 60647826 US 60527565 US 12214435 US 60605191 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 60846150 US 10964011 US 12806312 US 60725999 US 12317043 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 10462591	US 20100309426 A1 US 8465151 B2	12/09/2010 06/18/2013
US	12987018	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	01/07/2011	US 12987018 US 11497651 US 12074961 US 11006343 US 60527565	US 8112104 B1	02/07/2012
US	13085402	1)HOWELL, THOMAS A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING AFTER-MARKET ELECTRICAL COMPONENTS	04/12/2011	US 60583169 US 11183269 US 10964011 US 13085402 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20110187990 A1 US 8500271 B2	08/04/2011 08/06/2013

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US	13291020	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglas,4)Tong, Peter P.	EYEWEAR WITH TOUCH-SENSITIVE INPUT SURFACE	11/07/2011	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 13291020 US 60605191 US 60592045 US 60647836	US 20120050668 A1 US 8430507 B2	03/01/2012 04/30/2013
US	13363360	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	01/31/2012	US 12987018 US 11497651 US 12074961 US 11006343 US 60527565 US 13363360	US 8280419 B1	10/02/2012
US	13367346	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING ELECTRICAL COMPONENTS AND APPARATUS THEREFOR	02/06/2012	US 60583169 US 60725896 US 11078855 US 60787850 US 13367346 US 10822218 US 60647826 US 60527565 US 60605191 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 60725999 US 11183256 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 11078857 US 11183263	US 20120133885 A1 US 9033493 B2	05/31/2012 05/19/2015
US	13593483	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	08/23/2012	US 12987018 US 11497651 US 13593483 US 11006343 US 60527565 US 13363360 US 12074961	US 8737978 B1	05/27/2014

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US	13831445			03/14/2013	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 60647826 US 60527565 US 60605191 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 13831445 US 11078857 US 11183263	US 20140268013 A1 US 20170068117 A9 US 10310296 B2	09/18/2014 03/09/2017 06/04/2019
US	13831512	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING ONE OR MORE ELECTRICAL COMPONENTS	03/14/2013	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 11891411 US 60647826 US 60527565 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12806312 US 60725999 US 11183256 US 12317043 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 10462591 US 11078857 US 11183263	US 20130201440 A1 US 9690121 B2	08/08/2013 06/27/2017

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US	13831419			03/14/2013	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 60647826 US 60527565 US 13291020 US 60605191 US 13831419 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 11078857 US 11183263	US 20140268008 A1 US 20160246075 A9 US 10345625 B2	09/18/2014 08/25/2016 07/09/2019
US	13955336	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING BONE CONDUCTING SPEAKER	07/31/2013	US 60583169 US 11078855 US 11183269 US 11183276 US 10964011 US 13955336 US 10822218 US 13085402 US 11183256 US 60647826 US 11006343 US 60527565 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 60605191 US 11078857 US 11183263 US 60592045 US 60647836	US 20130308089 A1 US 8905542 B2	11/21/2013 12/09/2014
US	14272632	1)Cheung, Kwok Wai, 2)Tong, Peter P., 3)Thomas, C. Douglass	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	05/08/2014	US 11452115 US 60689686 US 11006343 US 60527565 US 12798995 US 14272632	US 20140242956 A1 US 9204268 B2	08/28/2014 12/01/2015

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	14286976	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	05/23/2014	US 12987018 US 11497651 US 13593483 US 11006343 US 60527565 US 13363360 US 14286976 US 12074961	US 20140256293 A1 US 11019199 B2	09/11/2014 05/25/2021
US	14313989	1)HOWELL, THOMAS A., 2)CHAO, DAVID , 3)Thomas, C. Douglass, 4)Tong, Peter P.	EYEWEAR WITH RADIATION DETECTION SYSTEM	06/24/2014	US 14313989 US 60583169 US 12322377 US 11078855 US 10964011 US 10822218 US 60647826 US 11006343 US 60562798 US 60620238 US 60618107 US 60605191 US 11078857 US 60592045 US 60647836	US 20140361185 A1 US 9488520 B2	12/11/2014 11/08/2016
US	14557409	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED ELECTRONIC COMPONENTS	12/01/2014	US 60583169 US 11078855 US 11183269 US 11183276 US 10964011 US 13955336 US 10822218 US 13085402 US 11183256 US 14557409 US 60647826 US 11006343 US 60527565 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 60605191 US 11078857 US 11183263 US 60592045 US 60647836	US 20150085245 A1 US 9547184 B2	03/26/2015 01/17/2017

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US	14715501			05/18/2015	US 14715501 US 60583169 US 60725896 US 11078855 US 60787850 US 13367346 US 10822218 US 60647826 US 60527565 US 60605191 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 60725999 US 11183256 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 11078857 US 11183263	US 20150253590 A1 US 10330956 B2	09/10/2015 06/25/2019
US	14922344	1)Cheung, Kwok Wai, 2)Tong, Peter P., 3)Thomas, C. Douglass	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	10/26/2015	US 14922344 US 11006343 US 60527565 US 14272632 US 11452115 US 60689686 US 12798995	US 20160044474 A1 US 9736664 B2	02/11/2016 08/15/2017
US	15343472	1)HOWELL, THOMAS A., 2)CHAO, DAVID , 3)Thomas, C. Douglass, 4)Tong, Peter P.	EYEWEAR WITH RADIATION DETECTION SYSTEM	11/04/2016	US 14313989 US 60583169 US 12322377 US 11078855 US 10964011 US 10822218 US 60647826 US 15343472 US 11006343 US 60562798 US 60620238 US 60618107 US 60605191 US 11078857 US 60592045 US 60647836	US 20170074721 A1 US 10060790 B2	03/16/2017 08/28/2018

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US	15375423			12/12/2016	US 60583169 US 11078855 US 10822218 US 13085402 US 60647826 US 60527565 US 15375423 US 60605191 US 60592045 US 60647836 US 11183269 US 11183276 US 10964011 US 13955336 US 11183256 US 14557409 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 11078857 US 11183263	US 20170090219 A1 US 10061144 B2	03/30/2017 08/28/2018
US	15396428			12/31/2016	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 11891411 US 15396428 US 60647826 US 60527565 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12806312 US 60725999 US 11183256 US 12317043 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 10462591 US 11078857 US 11183263	US 20170146829 A1	05/25/2017

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US	15409723	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR HOUSING FOR CHARGING EMBEDDED BATTERY IN EYEWEAR FRAME	01/19/2017	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 11891411 US 60647826 US 15409723 US 60527565 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12806312 US 60725999 US 11183256 US 12317043 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 10462591 US 11078857 US 11183263	US 20170131575 A1	05/11/2017
US	15469440			03/24/2017	US 14922344 US 11006343 US 60527565 US 14272632 US 15469440 US 11452115 US 60689686 US 12798995	US 20170201872 A1 US 10142810 B2	07/13/2017 11/27/2018
US	15704181			09/14/2017	US 14922344 US 11006343 US 60527565 US 14272632 US 15469440 US 11452115 US 60689686 US 15704181 US 12798995	US 20180014169 A1 US 10492038 B2	01/11/2018 11/26/2019

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US	16049120	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED ELECTRONIC COMPONENTS	07/30/2018	US 60583169 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20180335650 A1 US 11243416 B2	11/22/2018 02/08/2022
US	16102859	1)HOWELL, THOMAS A., 2)CHAO, DAVID , 3)Thomas, C. Douglass, 4)Tong, Peter P.	EYEWEAR WITH RADIATION DETECTION SYSTEM	08/14/2018	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20180348050 A1 US 10359311 B2	12/06/2018 07/23/2019
US	16127957	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING ELECTRICAL COMPONENTS AND APPARATUS THEREFOR	09/11/2018	US 14715501 US 60583169 US 60725896 US 11183269 US 60787850 US 60846150 US 10964011 US 13367346 US 60725999 US 16127957 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60605191 US 12462286 US 60592045 US 60647836	US 20190033623 A1 US 11086147 B2	01/31/2019 08/10/2021

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US	16182969			11/07/2018	US 14715501 US 60583169 US 60725896 US 60787850 US 13367346 US 10822218 US 13085402 US 11891411 US 60647826 US 15409723 US 60527565 US 15375423 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 16182969 US 11183269 US 11183276 US 60846150 US 10964011 US 13955336 US 12806312 US 16049120 US 60725999 US 16127957 US 12317043 US 14557409 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 10462591	US 20190187492 A1 US 20210364827 A9	06/20/2019 11/25/2021
US	16424018	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR WITH TOUCH-SENSITIVE INPUT SURFACE	05/28/2019	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 60647826 US 60527565 US 16424018 US 60509631 US 60562798 US 60620238 US 60618107 US 13291020 US 60605191 US 13831419 US 60592045 US 60647836	US 20190278110 A1	09/12/2019

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US	16426351			05/30/2019	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 16426351 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20190310132 A1 US 10539459 B2	10/10/2019 01/21/2020
US	16429181	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR WITH PRINTED CIRCUIT BOARD SUPPORTING MESSAGES	06/03/2019	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 60647826 US 60527565 US 60509631 US 16429181 US 60562798 US 60620238 US 60618107 US 13831445 US 60605191 US 60592045 US 60647836	US 20190285913 A1	09/19/2019
US	16445452			06/19/2019	US 12987018 US 11497651 US 13593483 US 11006343 US 60527565 US 13363360 US 14286976 US 12074961 US 16445452	US 20190306304 A1	10/03/2019
US	16446710			06/20/2019	US 12987018 US 11497651 US 13593483 US 11006343 US 60527565 US 13363360 US 14286976 US 12074961 US 16446710	US 20190306305 A1	10/03/2019
US	16556205			08/29/2019	US 14922344 US 11006343 US 60527565 US 14272632 US 15469440 US 11452115 US 60689686 US 15704181 US 12798995 US 16556205	US 20190387371 A1 US 10708727 B2	12/19/2019 07/07/2020

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US	16574254	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED AND TETHERED ELECTRONIC COMPONENTS	09/18/2019	US 60583169 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 16574254 US 60605191 US 60592045 US 60647836	US 20200012127 A1 US 11204512 B2	01/09/2020 12/21/2021
US	16703805	1)HOWELL, THOMAS A., 2)CHAO, DAVID , 3)Thomas, C. Douglass, 4)Tong, Peter P.	EYEWEAR WITH DETECTION SYSTEM	12/04/2019	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 16426351 US 16703805 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20200109986 A1 US 11326941 B2	04/09/2020 05/10/2022
US	16794458			02/19/2020	US 14922344 US 11006343 US 60527565 US 14272632 US 16794458 US 15469440 US 11452115 US 60689686 US 15704181 US 12798995 US 16556205	US 20200186975 A1	06/11/2020
US	16821810	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED ELECTRONIC COMPONENTS FOR AUDIO SUPPORT	03/17/2020	US 60583169 US 16821810 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 16574254 US 60605191 US 60592045 US 60647836	US 20200218094 A1	07/09/2020

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	17395509			08/06/2021	US 14715501 US 60583169 US 60725896 US 11183269 US 60787850 US 60846150 US 10964011 US 13367346 US 17395509 US 60725999 US 16127957 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60605191 US 12462286 US 60592045 US 60647836	US 20210364828 A1	11/25/2021
US	17484080			09/24/2021	US 17484080 US 60583169 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 16574254 US 60605191 US 60592045 US 60647836	US 20220011603 A1	01/13/2022
US	17681593			02/25/2022	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 16426351 US 16703805 US 17681593 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20220178743 A1	06/09/2022

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	17737866	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR HAVING REMOVABLE TEMPLES THAT SUPPORT ELECTRICAL COMPONENTS	05/05/2022	US 14715501 US 60725896 US 17737866 US 60787850 US 60846150 US 13367346 US 11580222 US 17395509 US 12462286 US 60725999 US 16127957	US 20220260859 A1	08/18/2022

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 17/873,104	Filing Date 07/25/2022	☐ 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	10/17/2022	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 3	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 1	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.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/DORIAN EVANS/
*** 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.

Electronic Acknowledgement Receipt

EFS ID:	46828237
Application Number:	17873104
International Application Number:	
Confirmation Number:	2978
Title of Invention:	WEARABLE AUDIO SYSTEM SUPPORTING ENHANCED HEARING SUPPORT
First Named Inventor/Applicant Name:	Thomas A. Howell
Customer Number:	34071
Filer:	Peter P. Tong/Angela Nijim
Filer Authorized By:	Peter P. Tong
Attorney Docket Number:	IPVCP003C10
Receipt Date:	17-OCT-2022
Filing Date:	25-JUL-2022
Time Stamp:	10:52:12
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	IPVCP003C10_AmdATrans_10-22.pdf	17448 6a7d5d11c98495489fef400e9b010f6d0849aaa4	no	1

Warnings:

Information:					
2	Amendment/Request for Reconsideration-After Non-Final Rejection	IPVCP003C10_AmdA_AsFiled_10-22.pdf	31990 24d2b4b072de78a4621880be6d58855c2d87d4fb	no	4
Warnings:					
Information:					
			Total Files Size (in bytes):	49438	

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

In re application of: HOWELL et al.

Attorney Docket No.: IPVCP003C10

Application No.: 17/873,104

Examiner: LEI, JIE

Filed: July 25, 2022

Group: 2872

Title: WEARABLE AUDIO SYSTEM SUPPORTING ENHANCED HEARING SUPPORT

AMENDMENT A TRANSMITTAL

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

Sir:

Transmitted herewith is an Amendment in the above-identified application.

The fee has been calculated as shown below.

	Claims After Amendment		Highest Previously Paid For	Present Extra	Small Entity Rate Fee	Large Entity Rate Fee
Total Claims	3	MINUS	20	00	x 50 =	x 100 =
Independent Claims	1	MINUS	3	00	x 240 =	x 480 =
Multiple Dependent Claim Present and Fee Not Previously Paid					$	$
				Total	$0.00	$

☐ Applicant(s) hereby petition for a _____- month extension(s) of time to respond to the aforementioned Office Action.

☒ Applicant(s) believe that no (additional) Extension of Time is required; however, if it is determined that such an extension is required, Applicant(s) hereby petition that such an extension be granted and authorize the Commissioner to charge the required fees for an Extension of Time under 37 CFR 1.136 to Deposit Account No. 50-3874 (Order No. IPVCP003C10).

☒ Any fees due are being paid electronically herewith.

☒ Please charge any additional fees required to facilitate filing the enclosed response, to Deposit Account No. 50-3874 (Order No. IPVCP003C10).

Respectfully submitted,

/C. Douglass Thomas/

C. Douglass Thomas
Reg. No. 32,947

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: HOWELL et al.	Attorney Docket No.: IPVCP003C10
Application No.: 17/873,104	Examiner: LEI, JIE
Filed: July 25, 2022	Group: 2872
Title: WEARABLE AUDIO SYSTEM SUPPORTING ENHANCED HEARING SUPPORT	

AMENDMENT A

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

Dear Sir:

In response to the Office Action dated October 06, 2022, please amend the above-identified patent application as follows:

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

Remarks/Arguments begin on page 3 of this paper.

AMENDMENTS TO THE CLAIMS:

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

Listing of Claims:

1. (Currently Amended) A personal audio system operable to at least generate customized audio output, comprising:

a pair of ear buds, each configured to be placed in an ear of a user; and

a mobile communication device at least for supporting audio output, the mobile communication device configured to store at least a hearing profile associated with the user, the mobile communication device producing audio output signals customized for the user based on at least the stored hearing profile associated with the user, and the mobile communication device configure to transmit the customized audio output signals to the pair of ear buds,

wherein each of the ear buds is configured to receive at least a portion of the customized audio output signals transmitted by the mobile communication device, and

wherein each of the ear buds is configured to generate at least a portion of the customized audio output for the user in accordance with at least the portion of the customized audio output signals being received.

2. (Original) A personal audio system as recited in claim 1, wherein the mobile communication device is configured to establish the hearing profile for the user.

3. (Original) A personal audio system as recited in claim 2, wherein the hearing profile for the user is established by the mobile communication device at least via generating audio tones and outputting such to one or more of the ear buds and receiving a user indication associated with the generated audio tones.

REMARKS

In the Office Action, the Examiner rejected claims 1-3 under 35 USC §102(a). This rejection is fully traversed below.

Claim 1 has been amended to further clarify the subject matter regarded as the invention. Claims 1-3 remain pending. Reconsideration of the application is respectfully requested based on the following remarks.

PATENTABILITY OF CLAIMS 1-3

In the Office Action, the Examiner rejected claims 1-3 under 35 USC §102(a) as being anticipated by Swab et al., U.S. Patent Pub. No. 20004/0000733. Applicant respectfully disagrees. This rejection is fully traversed below.

Claim 1 pertains to a personal audio system operable to at least generate customized audio output. The personal audio system includes a pair of ear buds, each configured to be placed in an ear of a user; and a mobile communication device at least for supporting audio output. Claim 1 also specifies that "the mobile communication device configured to store at least a hearing profile associated with the user, the mobile communication device producing audio output signals customized for the user based on at least the stored hearing profile associated with the user, and the mobile communication device configure to transmit the customized audio output signals to the pair of ear buds …."

While Swab et al. does support audio output, the audio output disclosed in Swab et al. is not customized to a user based on a stored hearing profile associated with the user. Hence, among other things, Swab et al. cannot teach or suggest "a mobile communication device at least for supporting audio output, the mobile communication device configured to store at least a hearing profile associated with the user, the mobile communication device producing audio output signals customized for the user based on at least the stored hearing profile associated with the user, and the mobile communication device configure to transmit the customized audio output signals to the pair of ear buds…."

Based on the foregoing, it is submitted that claim 1 is patentably distinct from Swab et al. The additional limitations recited in claim 1 are not further discussed as the above-discussed limitations are clearly sufficient to distinguish the claimed invention from Swab et al. Additionally, it is submitted that claims 2-3 are patentably distinct from Swab et al. for at least one or more reasons similar to those noted above regarding claim 1.

Accordingly, it is respectfully requested that the Examiner withdraw the rejection of claims 1-3 under 35 USC § 102(a).

SUMMARY

It is submitted that claims 1-3 are patentably distinct from the cited references and, therefore, the rejections under 35 USC §102(a) should be withdrawn. Reconsideration of the application and an early Notice of Allowance are earnestly solicited.

Applicant hereby petitions for an extension of time which may be required to maintain the pendency of this case, and any required fee for such extension or any further fee required in connection with the filing of this Amendment is to be charged to Deposit Account No. 50-3874 (Order No. IPVCP003C10).

Respectfully submitted,

/C. Douglass Thomas/

C. Douglass Thomas
Reg. No. 32,947

(650) 903-9200, x103

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/873,104	07/25/2022	Thomas A. Howell	IPVCP003C10	2978

34071 7590 11/04/2022

IPVENTURE, INC.
4010 Moorpark Avenue
Suite 211
San Jose, CA 95117

EXAMINER	
LEI, JIE	

ART UNIT	PAPER NUMBER
2872	

MAIL DATE	DELIVERY MODE
11/04/2022	PAPER

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.

Office Action Summary	**Application No.** 17/873,104	**Applicant(s)** Howell et al.	
	Examiner JIE LEI	**Art Unit** 2872	**AIA (FITF) Status** No

-- 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 10/17/2022.

☐ 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) 1-3 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) 1-3 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 _____ 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 _____.

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

4) ☐ Other: _____.

DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions. This office action is in response to the amendment filed 10/17/2020.

Claim Rejections - 35 USC § 102

2. 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) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1-3 are rejected under 35 U.S.C. 102(a) as being anticipated by Swab et al (US 20040000733).

Regarding Claim 1, Swab teaches a personal audio system operable to at least generate customized audio output (abstract; figs. 1, 3-4 and 6-10), comprising:

a pair of ear buds, each configured to be placed in an ear of a user (figs. 3-4 and 8-10, 60, 62; page 5, claim 4, said apparatus is selected from a group consisting of an audio device having a speaker and a microphone, a camera, a display device, a distance alarm and an ear bud); and

a mobile communication device at least for supporting audio output (fig. 3, 68-bluetooth, 66-mobile phone; fig. 4, 70-blue tooth, 58-MP3; fig. 5, 76--blue tooth, 74-

bluetooth enabled device (mobile phone, PDA, LAPTOP etc.)), the mobile communication device configured to store at least a hearing profile associated with the user, the mobile communication device producing audio output signals customized for the user based on at least the stored hearing profile associated with the user (¶[0043], line 1-26, MP3 player plays back previously stored music or any other stored audio signal; --- stored music (e.g. songs) inherently comprising hearing profiles which composing a song for MP3 playback; ¶[0046], line 1-21, eyewear; a distance alarm; a small-range wireless network; to activate the alarm; an audio alarm like an audible beep or vibratory alarm, --the audio alarm (audio output signals) is produced based on alarm control profile/software (hearing profile) stored in the mobile communication device), and the mobile communication device configure to transmit the customized audio output signals to the pair of ear buds (fig. 4, 60, 62, 58; figs.8-10, 60, 62),

wherein each of the ear buds is configured to receive at least a portion of the customized audio output signals transmitted by the mobile communication device (fig. 4, 60, 62, 58; (¶[0043], line 1-26, MP3 player plays back previously stored music or any other stored audio signal), and

wherein each of the ear buds is configured to generate at least a portion of the customized audio output for the user in accordance with at least the portion of the customized audio output signals being received (figs. 3-4 and 8-10, 60, 62, 66,58).

Regarding Claim 2, Swab teaches a personal audio system as recited in claim 1, wherein the mobile communication device is configured to establish the hearing profile for the user (fig. 4, 60, 62, 58; (¶[0043], line 1-26, MP3 player plays back previously stored music or any other stored audio signal; page 5, claim 4, said apparatus is selected from a group consisting of an audio device having a speaker…, a distance alarm and an ear bud)

Regarding Claim 3, Swab teaches a personal audio system as recited in claim 2, wherein the hearing profile for the user is established by the mobile communication device at least via generating audio tones and outputting such to one or more of the ear buds and receiving a user indication associated with the generated audio tones (figs. 3-4 and 8-10, 60, 62; page 5, claim 4, said apparatus is selected from a group consisting of an audio device having a speaker…, a distance alarm and an ear bud; ¶[0046], line 1-21, eyewear; a distance alarm; a small-range wireless network; to activate the alarm; an audio alarm like an audible beep or vibratory alarm).

Response to Arguments

4. Applicant's arguments filed on 10/17/2022 have been fully considered and are not persuasive.

In the remarks, applicant argues that:

(A) While Swab et al. does support audio output, the audio output disclosed in Swab et al is not customized to a user based on a stored hearing profile associated with

the user. Hence, among other things, Swab et al. cannot teach or suggest "a mobile communication device at least for supporting audio output, the mobile communication device configured to store at least a hearing profile associated with the user, the mobile communication device producing audio output signals customized for the user based on at least the stored hearing profile associated with the user, and the mobile communication device configure to transmit the customized audio output signals to the pair of ear buds....".

In response to applicant's argument(s):

(A) Swab teaches a mobile communication device at least for supporting audio output (see fig. 3, 68-bluetooth, 66-mobile phone; fig. 4, 70-blue tooth, 58-MP3; fig. 5, 76--blue tooth, 74-bluetooth enabled device (mobile phone, PDA, LAPTOP etc.)), the mobile communication device configured to store at least a hearing profile associated with the user, the mobile communication device producing audio output signals customized for the user based on at least the stored hearing profile associated with the user (¶[0043], line 1-26, MP3 player plays back previously stored music or any other stored audio signal; --- stored music (e.g. songs) inherently comprising hearing profiles which composing a song for MP3 playback; ¶[0046], line 1-21, eyewear; a distance alarm; a small-range wireless network; to activate the alarm; an audio alarm like an audible beep or vibratory alarm, ---the audio alarm (audio output signals) is produced based on alarm control profile/software (hearing profile) stored in the mobile communication device), and the mobile communication device configure to transmit the

customized audio output signals to the pair of ear buds (see fig. 4, 60, 62, 58; figs.8-10, 60, 62).

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

6. 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 mailing date of this final action.

7. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Jie Lei whose telephone number is (571) 272 7231. The examiner can normally be reached on Mon.-Thurs. 8:00 am to 5:30 pm.

8. If attempts to reach the examiner by the telephone are unsuccessful, the examiner's supervisor, Thomas Pham can be reached on (571) 272 3689.The Fax number for the organization where this application is assigned is (571) 273 8300.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Services Representative or access to the automated information system, call 800-786-9199(In USA or Canada) or 571-272-1000.

/JIE LEI/
Primary Examiner, Art Unit 2872

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,104	Howell et al.
	Examiner	Art Unit
	JIE LEI	2872

CPC - Searched*		
Symbol	**Date**	**Examiner**
G02C 1/00, 11/10, 11/06, 5/001, 5/02, 5/14, 5/22, 5/146	09/27/2022	JL
G02B 27/01, 27/017, 27/0176	09/27/2022	JL
update search	10/27/2022	JL

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

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
351	158, 41, 111, 121,123,124	09/27/2022	JL
359	13, 629-633	09/27/2022	JL
381	381, 327, 328, 370, 380	09/27/2022	JL
	update search	10/27/2022	JL

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

/JIE LEI/ Primary Examiner, Art Unit 2872	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,104	Howell et al.
	Examiner	**Art Unit**
	JIE LEI	2872

Search Notes		
Search Notes	**Date**	**Examiner**
G02C 1/00, 11/10, 11/06, 5/001, 5/02, 5/14, 5/22, 5/146 class and text search	09/27/2022	JL
G02B 27/01, 27/017, 27/0176 class and text search	09/27/2022	JL
351/158, 41, 111, 121,123,124 class and text search	09/27/2022	JL
359/13, 629-633 class and text search	09/27/2022	JL
381/381, 327, 328, 370, 380 class and text search	09/27/2022	JL
Inventor name search	09/27/2022	JL
NPL and foreign search (google scholar, google patent, globaldossier and Dialog search)	09/27/2022	JL
PE2E text search	09/27/2022	JL
update search	10/27/2022	JL

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	USPGPUB, USPAT	09/27/2022	JL
	update search	10/27/2022	JL

/JIE LEI/ Primary Examiner, Art Unit 2872	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,104	Howell et al.
	Examiner	**Art Unit**
	JIE LEI	2872

✓	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	09/27/2022	10/27/2022							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L14	71869	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/05 08:57 AM
L15	56014	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/05 08:59 AM
L17	32920	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND (communicat$4 near10 wireless$4) AND (audio OR speak$4) AND embed$4	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/01/05 10:59 AM
L30	61083	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2022/09/26 03:28 PM

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		AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L43	14425	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/26 03:28 PM
L44	9477	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/26 03:28 PM
L45	2784	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/26 03:28 PM

		AND second AND bridge AND partial$4					
L47	1131	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND (electric$4 WITH control$4) AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/26 03:28 PM
L48	570	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND (electric$4 WITH control$4) AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4 AND rechargeable	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/09/26 03:28 PM
L50	30	(Artificial Intelligence) More like doc: US-6349001-B1 Text: (CA-2307877-C OR EP-1027627-A4 OR WO-9923524-A1 OR EP-1027627-A1 OR US-6091546-A OR JP-2001522063-A OR EP-1027627-B1 OR WO-9923524-A8 OR CA-2307877-A1 OR US-6204974-B1 OR US-6384982-B1 OR EP-1169663-A1 OR US-6356392-B1 OR WO-0055676-A1 OR EP-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/26 03:28 PM

		1169663-A4 OR JP-2002539498-A OR AU-2007205168-A1 OR CA-2636159-A1 OR AU-2007205168-B2 OR CA-2174510-A1).did.					
L659	3	"17873104"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L660	11	"15375423"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L661	5	"20170090219"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L662	45	"10061144"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	ON	ON	2022/10/27 08:41 AM

			CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L664	16	"46304853".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2022/10/27 08:41 AM
L665	35	(Artificial Intelligence) More like doc: US-20050264752-A1 Text: (US-20110187990-A1 OR US-7922321-B2 OR US-20130308089-A1 OR US-20170090219-A1 OR US-20150085245-A1 OR US-20180335650-A1 OR US-20070046887-A1 OR US-7581833-B2 OR US-8500271-B2 OR US-8905542-B2 OR US-20200012127-A1 OR US-8109629-B2 OR US-20170146829-A1 OR US-20120133885-A1 OR US-20150253590-A1 OR US-20130201440-A1 OR US-20170068117-A9 OR US-20140268013-A1 OR US-10310296-B2 OR US-20160246075-A9).did.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L666	45	(Artificial Intelligence) Similar to:	(US-PGPUB; USPAT; USOCR; FIT (AU, AP,	OR	ON	ON	2022/10/27 08:41 AM

		17/873,104 with 0 CPC Selections and 0 Text Selections Text: (CN-105229737-A OR CN-105229737-B OR US-7987070-B2 OR KR-20050093003-A OR EP-2149068-B1 OR US-20140278385-A1 OR EP-2973556-A1 OR WO-2014163797-A1 OR KR-20210058039-A OR US-20200218094-A1 OR JP-2016516343-A OR FR-2915815-A1 OR US-20090234614-A1 OR EP-2149068-A1 OR WO-2008133921-A1 OR US-10379386-B2 OR US-20220011603-A1 OR EP-2973556-B1 OR US-20180045982-A1 OR US-11243416-B2 OR US-9547184-B2 OR CN-108919516-A OR CN-113156669-A OR BE-1028116-B1 OR JP-6375362-B2 OR US-9810925-B2 OR US-10061144-B2 OR TW-201510990-A OR US-20180335650-A1 OR US-20170090219-A1 OR US-20200012127-A1 OR US-11204512-B2 OR TW-I624829-B OR CN-214011676-U OR US-8905542-B2 OR US-20150085245-A1 OR US-7922321-B2 OR US-20110187990-A1 OR US-20130308089-A1 OR US-8500271-B2 OR US-20050264752-A1 OR WO-2016090066-A1 OR ES-2567480-T3 OR AU-2021100440-A4 OR KR-20220092330-A OR CN-110850604-A OR US-20200294521-A1 OR CN-104730731-B OR CN-103124921-A OR WO-2020144536-A3).did.	AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN))				

L667	44	(Artificial Intelligence) Similar to: 17/873,104 with 4 CPC Selections and 1 Text Selection Text: (KR-20050093003-A OR US-7987070-B2 OR EP-2149068-B1 OR CN-105229737-A OR CN-105229737-B OR JP-2016516343-A OR US-20090234614-A1 OR EP-2149068-A1 OR WO-2008133921-A1 OR US-20140278385-A1 OR EP-2973556-A1 OR WO-2014163797-A1 OR FR-2915815-A1 OR KR-20210058039-A OR CN-108919516-A OR BE-1028116-B1 OR JP-6375362-B2 OR EP-2973556-B1 OR US-10379386-B2 OR TW-201510990-A OR US-20180045982-A1 OR US-9810925-B2 OR US-9547184-B2 OR CN-113156669-A OR US-11243416-B2 OR TW-I624829-B OR CN-214011676-U OR US-20170090219-A1 OR US-20180335650-A1 OR AU-2021100440-A4 OR US-10061144-B2 OR US-11204512-B2 OR WO-2020144536-A3 OR US-20200218094-A1 OR US-20220011603-A1 OR ES-2567480-T3 OR US-8905542-B2 OR WO-2016090066-A1 OR US-20200012127-A1 OR US-7922321-B2 OR US-8500271-B2 OR US-20150085245-A1 OR US-20050264752-A1 OR US-20110187990-A1 OR US-20130308089-A1 OR KR-20220092330-A OR GB-2594812-A OR CN-104730731-B OR US-20200294521-A1 OR BR-112014016460-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2022/10/27 08:41 AM

		A2).did.					
L668	45	(Artificial Intelligence) Similar to: 17/873,104 with 4 CPC Selections and 1 Text Selection Text: (KR-20050093003-A OR CN-105229737-B OR CN-105229737-A OR US-7987070-B2 OR EP-2149068-B1 OR US-20140278385-A1 OR EP-2973556-A1 OR WO-2014163797-A1 OR JP-2016516343-A OR EP-2973556-B1 OR US-20090234614-A1 OR EP-2149068-A1 OR WO-2008133921-A1 OR JP-6375362-B2 OR KR-20210058039-A OR FR-2915815-A1 OR BE-1028116-B1 OR US-20180045982-A1 OR US-9810925-B2 OR CN-108919516-A OR US-10379386-B2 OR TW-I624829-B OR US-9547184-B2 OR TW-201510990-A OR US-11243416-B2 OR CN-113156669-A OR CN-214011676-U OR US-10061144-B2 OR AU-2021100440-A4 OR WO-2016090066-A1 OR ES-2567480-T3 OR WO-2020144536-A3 OR US-8905542-B2 OR US-20220011603-A1 OR US-20220107515-A1 OR US-11422392-B2 OR WO-2022076226-A1 OR US-7922321-B2 OR US-20200294521-A1 OR US-20200218094-A1 OR US-20050264752-A1 OR US-8500271-B2 OR US-11204512-B2 OR US-20110187990-A1 OR US-20150085245-A1 OR US-20180335650-A1 OR US-20130308089-A1	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2022/10/27 08:41 AM

		OR US-20170090219-A1 OR KR-20220092330-A OR US-20200012127-A1).did.					
L669	4	"17484080"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L670	6	"16574254"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L671	8	"20200012127"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L672	83792	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2022/10/27 08:41 AM

		AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L673	65743	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L674	61840	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L675	40353	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA,	OR	ON	ON	2022/10/27 08:41 AM

			VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L676	37823	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND (communicat$4 near10 wireless$4) AND (audio OR speak$4) AND embed$4	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L677	19812	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L678	122	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L679	107	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		connect$4 AND communicat$4 AND (audio OR speak$4)					
L680	103	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L681	103	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND (communicat$4 near10 wireless$4) AND (audio OR speak$4) AND embed$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L682	82	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone					
L683	63	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L684	63	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L685	63	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge					
L686	59	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L687	14612	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

L688	9601	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L689	2817	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L690	1552	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L691	1141	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND (electric$4 WITH control$4) AND	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		(memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4					
L692	577	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND (electric$4 WITH control$4) AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4 AND rechargeable	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L693	568	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND (electric$4 WITH control$4) AND (memor$4 OR stor$4) AND (batter$4 near10 rechargeable) AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L694	32	(Artificial Intelligence) More like doc: US-6349001-B1 Text: (CA-2307877-C OR WO-9923524-A1 OR EP-1027627-A1 OR EP-1027627-A4 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2022/10/27 08:41 AM

		US-6091546-A OR JP-2001522063-A OR EP-1027627-B1 OR WO-9923524-A8 OR CA-2307877-A1 OR US-6204974-B1 OR US-6384982-B1 OR EP-1169663-A1 OR US-6356392-B1 OR WO-0055676-A1 OR EP-1169663-A4 OR JP-2002539498-A OR EP-1547434-B8 OR CN-102843629-A OR EP-1971894-A2 OR EP-1849034-A2).did.	MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L695	31	(Artificial Intelligence) More like doc: US-7278734-B2 Text: (US-20050201585-A1 OR US-8020989-B2 OR US-20080089545-A1 OR AU-2005306412-B2 OR EP-1828833-B1 OR EP-1828833-A2 OR WO-2006055884-A2 OR AU-2005306412-A2 OR AU-2005306412-A1 OR CA-2932965-C OR CA-2932965-A1 OR AU-2013263854-A1 OR US-20060203183-A1 OR US-20040160573-A1 OR US-7150526-B2 OR US-7494216-B2 OR AU-2013263854-B2 OR AU-2012203662-A1 OR US-7988283-B2 OR AU-2012203662-B2).did.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L696	28	(Artificial Intelligence) More like doc: US-6911172-B2 Text: (US-20040000733-A1 OR US-20040239874-A1 OR US-20020159023-A1 OR EP-1485748-A2 OR WO-02089496-A2 OR US-9244292-B2 OR US-6929365-B2 OR CA-2445952-A1 OR US-20050239502-A1 OR US-20040029582-A1 OR US-6769767-B2	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM

		OR US-7331666-B2 OR US-20160109729-A1 OR JP-2005502902-A OR JP-4246500-B2 OR TW-I252005-B OR EP-1485748-B1 OR WO-02089496-A3 OR CN-1578923-A OR TH-61710-A).did.					
L697	10179	L14 AND ((G02B27/017 OR G02B2027/0178 OR G02B27/0172 OR G02B2027/014 OR G02B2027/0138 OR G02B2027/0187 OR G02B27/0093 OR G02B27/0176 OR G02B2027/0118 OR G02B2027/0134 OR G02B27/0179 OR G02B2027/0141 OR G02B2027/0174 OR G02B27/0101 OR G02B27/01 OR G02B2027/0132 OR G02B2027/0127 OR G02B2027/0123 OR G02B30/24 OR G02B2027/0156 OR G02B2027/0112 OR G02B2027/0147 OR G02B27/0081 OR G02B3/14 OR G02B2027/011 OR G02B2027/0185 OR G02B6/005 OR G02B30/34 OR G02B2027/0154 OR G02B6/34 OR G02B26/101 OR G02B5/32 OR G02B2027/0125 OR G02B7/28 OR G02B2027/0181 OR G02B27/30 OR G02B27/646 OR G02B2027/015 OR G02B27/02 OR G02B6/0016 OR G02B26/0833 OR G02B30/00 OR G02B5/30 OR G02B27/4205 OR G02B6/0038 OR G02B30/25 OR G02B26/001 OR G02B13/0045 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM

		G02B26/10 OR G02B5/208 OR G02B2027/0159 OR G02B6/0036 OR G02B6/0076 OR G02B27/0075 OR G02B7/09 OR G02B2027/0152 OR G02B27/022 OR G02B2027/0116 OR G02B27/0149 OR G02B3/0081 OR G02B2027/0169 OR G02B6/0035 OR G02B27/283 OR G02B7/285 OR G02B13/06 OR G02B6/0065 OR G02B7/08 OR G02B5/3025 OR G02B2027/012 OR G02B27/0103 OR G02B5/1857 OR G02B6/00 OR G02B2027/013 OR G02B6/0023 OR G02B30/27 OR G02B27/00 OR G02B6/0068 OR G02B6/0055 OR G02B27/028 OR G02B7/023 OR G02B2027/0114 OR G02B26/005 OR G02B2027/0161 OR G02B26/105 OR G02B7/04 OR G02B7/102 OR G02B27/4272 OR G02B6/0011 OR G02B2027/0105 OR G02B5/23 OR G02B6/0088 OR G02B7/12 OR G02B7/02 OR G02B6/003 OR G02B3/0056 OR G02B5/08 OR G02B2027/0163 OR G02B21/365 OR G02B30/23 OR G02B5/20 OR G02B27/286 OR G02B6/006 OR G02B6/10 OR G02B7/021 OR G02B27/1086 OR G02B6/0001 OR					

		G02B6/0018 OR G02B3/0006 OR G02B5/005 OR G02B2027/0194 OR G02B2027/0198 OR G02B26/0816 OR G02B27/42 OR G02B6/0028 OR G02B13/009 OR G02B27/0018 OR G02B30/40 OR G02B6/0053 OR G02B5/1866 OR G02B9/64 OR G02B13/004 OR G02B19/0057 OR G02B21/0012 OR G02B26/004 OR G02B27/4227 OR G02B7/008 OR G02B3/0062 OR G02B5/1871 OR G02B13/18 OR G02B26/02 OR G02B5/18 OR G02B27/141 OR G02B26/0875 OR G02B27/0006 OR G02B6/002 OR G02B6/1226 OR G02B9/60 OR G02B2027/0158 OR G02B3/12 OR G02B5/223 OR G02B6/0051 OR G02B13/0035 OR G02B2027/0107 OR G02B21/06 OR G02B5/1823 OR G02B5/201 OR G02B5/3083 OR G02B6/29325 OR G02B9/62 OR G02B13/02 OR G02B2027/0136 OR G02B26/06 OR G02B2027/0143 OR G02B1/002 OR G02B1/11 OR G02B2027/0129 OR G02B26/00 OR G02B6/124 OR G02B26/0841 OR G02B30/36 OR G02B3/0075 OR G02B5/0252 OR G02B6/4206 OR G02B19/0014 OR					

		G02B27/0955 OR G02B5/1842 OR G02B27/1026 OR G02B6/0031 OR G02B1/041 OR G02B6/0026 OR G02B7/002 OR G02B13/0065 OR G02B26/0808 OR G02B26/0825 OR G02B27/0189 OR G02B27/106 OR G02B30/52 OR G02B13/14 OR G02B23/18 OR G02B27/0905 OR G02B30/33 OR G02B5/3016 OR G02B1/02 OR G02B2006/12107 OR G02B25/02 OR G02B26/026 OR G02B9/34 OR G02B27/0977 OR G02B27/145 OR G02B3/0043 OR G02B9/12 OR G02B2027/0183 OR G02B27/0988 OR G02B27/1066 OR G02B30/35 OR G02B6/0056 OR G02B6/4204 OR G02B13/00 OR G02B17/086 OR G02B25/001 OR G02B25/004 OR G02B27/0025 OR G02B27/48 OR G02B30/56 OR G02B6/0061 OR G02B6/1221 OR G02B27/102 OR G02B6/1225 OR G02B6/42 OR G02B13/001 OR G02B2006/12164 OR G02B3/0037 OR G02B6/0025 OR G02B6/0045 OR G02B6/0078 OR G02B6/0083 OR G02B6/12004 OR G02B6/12007 OR G02B7/06 OR G02B27/44 OR G02B30/30 OR G02B6/0021 OR					

		G02B21/362 OR G02B27/0994 OR G02B27/10 OR G02B6/0085 OR G02B9/04 OR G02B26/007 OR G02B27/20 OR G02B27/64 OR G02B3/00 OR G02B3/0031 OR G02B3/02 OR G02B3/08 OR G02B30/31 OR G02B7/003 OR G02B2006/12147 OR G02B21/025 OR G02B23/125 OR G02B6/13 OR G02B6/32 OR G02B13/0015 OR G02B19/0042 OR G02B27/0916 OR G02B27/0972 OR G02B30/26 OR G02B5/1809 OR G02B6/4214 OR G02B1/045 OR G02B2027/0109 OR G02B2027/0196 OR G02B27/0037 OR G02B27/0068 OR G02B27/1006 OR G02B5/04 OR G02B5/3058 OR G02B6/0046 OR G02B6/2848 OR G02B7/34 OR G02B13/007 OR G02B2003/0093 OR G02B26/08 OR G02B27/18 OR G02B3/04 OR G02B5/1861 OR G02B6/2706 OR G02B19/0028 OR G02B2027/0145 OR G02B27/143 OR G02B27/58 OR G02B27/62 OR G02B3/0068 OR G02B3/0087 OR G02B5/10 OR G02B5/28 OR G02B6/0015 OR G02B6/0073 OR G02B6/122 OR G02B6/125 OR G02B6/4215 OR				

		G02B7/022 OR G02B7/36 OR G02B1/10 OR G02B13/0075 OR G02B17/08 OR G02B19/0066 OR G02B21/36 OR G02B23/00 OR G02B27/0961 OR G02B27/144 OR G02B30/10 OR G02B5/00 OR G02B5/1847 OR G02B5/1852 OR G02B6/0006 OR G02B7/10 OR G02B13/008 OR G02B15/00 OR G02B19/0023 OR G02B19/0076 OR G02B21/22 OR G02B2207/101 OR G02B3/005 OR G02B6/001 OR G02B6/0033 OR G02B6/0058 OR G02B6/02 OR G02B7/028).cpc.)					
L698	3464	L14 AND ((G02C11/10 OR G02C7/101 OR G02C7/083 OR G02C11/06 OR G02C7/04 OR G02C11/00 OR G02C11/04 OR G02C5/143 OR G02C7/02 OR G02C5/14 OR G02C7/06 OR G02C7/08 OR G02C7/102 OR G02C5/146 OR G02C2202/16 OR G02C2202/20 OR G02C7/049 OR G02C7/022 OR G02C5/22 OR G02C2202/18 OR G02C5/001 OR G02C2202/22 OR G02C7/081 OR G02C2200/08 OR G02C7/085 OR G02C7/061 OR G02C7/16 OR G02C2200/02 OR G02C5/16 OR G02C7/066 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM

		G02C7/12 OR G02C2202/12 OR G02C3/003 OR G02C7/086 OR G02C2202/24 OR G02C9/00 OR G02C5/02 OR G02C5/12 OR G02C7/10 OR G02C7/041 OR G02C7/104 OR G02C11/08 OR G02C13/003 OR G02C7/088 OR G02C1/00 OR G02C5/20 OR G02C9/04 OR G02C7/00 OR G02C2202/10 OR G02C5/008 OR G02C1/06 OR G02C5/2209 OR G02C5/124 OR G02C11/02 OR G02C13/001 OR G02C5/10 OR G02C5/2227 OR G02C7/105 OR G02C13/005 OR G02C2200/10 OR G02C13/00 OR G02C2200/06 OR G02C5/2254 OR G02C5/006 OR G02C5/126 OR G02C1/10 OR G02C5/04 OR G02C5/2218 OR G02C5/2272 OR G02C9/02 OR G02C2200/18 OR G02C5/122 OR G02C7/108 OR G02C3/04 OR G02C5/00 OR G02C7/021 OR G02C5/08 OR G02C7/027).cpc.)					
L699	7785	L15 AND ((G02B27/017 OR G02B2027/0178 OR G02B27/0172 OR G02B2027/014 OR G02B2027/0138 OR G02B2027/0187 OR G02B27/0093 OR G02B27/0176 OR G02B2027/0118 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO,	OR	ON	ON	2022/10/27 08:41 AM

		G02B2027/0134 OR G02B2027/0141 OR G02B27/0179 OR G02B27/0101 OR G02B27/01 OR G02B2027/0127 OR G02B2027/0174 OR G02B2027/0132 OR G02B2027/0123 OR G02B2027/0156 OR G02B2027/0147 OR G02B27/0081 OR G02B2027/0185 OR G02B2027/0112 OR G02B2027/011 OR G02B6/34 OR G02B6/005 OR G02B2027/0154 OR G02B26/101 OR G02B27/646 OR G02B3/14 OR G02B2027/0125 OR G02B2027/0181 OR G02B13/0045 OR G02B26/001 OR G02B6/0016 OR G02B27/30 OR G02B30/34 OR G02B5/30 OR G02B6/0038 OR G02B6/0036 OR G02B7/09 OR G02B2027/015 OR G02B27/0075 OR G02B27/4205 OR G02B5/208 OR G02B27/022 OR G02B7/08 OR G02B6/0035 OR G02B2027/012 OR G02B5/1857 OR G02B6/0076 OR G02B2027/0169 OR G02B2027/0152 OR G02B27/283 OR G02B2027/0159 OR G02B26/0833 OR G02B13/06 OR G02B26/10 OR G02B5/3025 OR G02B27/02 OR G02B27/028 OR G02B30/24 OR G02B27/4272 OR G02B5/32 OR G02B6/0065 OR G02B27/0149 OR G02B2027/0114 OR	NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

		G02B6/00 OR G02B7/04 OR G02B6/0068 OR G02B27/286 OR G02B6/10 OR G02B2027/0116 OR G02B26/105 OR G02B6/0088 OR G02B2027/0161 OR G02B30/27 OR G02B5/08 OR G02B6/0001 OR G02B2027/0105 OR G02B21/365 OR G02B6/0011 OR G02B6/0023 OR G02B5/1866 OR G02B7/023 OR G02B27/42 OR G02B30/40 OR G02B27/00 OR G02B27/0018 OR G02B7/021 OR G02B7/102 OR G02B7/12 OR G02B9/64 OR G02B2027/0198 OR G02B27/4227 OR G02B6/0053 OR G02B6/0055 OR G02B7/02 OR G02B3/0006 OR G02B5/1871 OR G02B6/003 OR G02B13/009 OR G02B13/18 OR G02B2027/0163 OR G02B13/004 OR G02B26/005 OR G02B7/008 OR G02B3/0062 OR G02B9/60 OR G02B3/0056 OR G02B6/0028 OR G02B27/1086 OR G02B5/1823 OR G02B6/29325 OR G02B9/62 OR G02B13/0035 OR G02B13/02 OR G02B21/06 OR G02B26/0875 OR G02B30/00 OR G02B6/0018 OR G02B6/006 OR G02B2027/0136 OR G02B5/18 OR G02B5/3083 OR					

		G02B26/004 OR G02B30/23 OR G02B5/005 OR G02B6/0051 OR G02B7/28 OR G02B3/0075 OR G02B2027/0107 OR G02B2027/013 OR G02B2027/0194 OR G02B5/1842 OR G02B5/20 OR G02B6/002 OR G02B21/0012 OR G02B26/06 OR G02B27/0103 OR G02B2027/0129 OR G02B26/0841 OR G02B3/12 OR G02B1/002 OR G02B1/11 OR G02B30/25 OR G02B5/201 OR G02B2027/0143 OR G02B27/0955 OR G02B6/0026 OR G02B9/34 OR G02B1/041 OR G02B13/14 OR G02B26/026 OR G02B26/0825 OR G02B27/0977 OR G02B3/0043 OR G02B5/223 OR G02B9/12 OR G02B2027/0183 OR G02B26/02 OR G02B30/56 OR G02B2027/0158 OR G02B26/00 OR G02B6/0031 OR G02B6/0056 OR G02B6/4204 OR G02B13/00 OR G02B27/0025 OR G02B5/3016 OR G02B6/0078 OR G02B19/0057 OR G02B6/0083 OR G02B6/0085 OR G02B9/04 OR G02B13/0065 OR G02B17/086 OR G02B26/007 OR G02B27/10 OR G02B30/52 OR G02B6/0021 OR G02B21/025 OR G02B3/0031 OR				

		G02B30/31 OR G02B30/35 OR G02B30/36 OR G02B7/002 OR G02B26/0816 OR G02B27/0916 OR G02B3/08 OR G02B7/003 OR G02B27/0037 OR G02B27/44 OR G02B3/0037 OR G02B6/0025 OR G02B6/0061 OR G02B13/001 OR G02B13/0015 OR G02B13/007 OR G02B27/0006 OR G02B27/48 OR G02B3/02 OR G02B30/33 OR G02B6/2706 OR G02B6/32 OR G02B2027/0145 OR G02B26/08 OR G02B27/64 OR G02B5/04 OR G02B6/0045 OR G02B6/124 OR G02B19/0066 OR G02B21/36 OR G02B21/362 OR G02B27/102 OR G02B3/00 OR G02B3/0068 OR G02B5/1847 OR G02B5/1852 OR G02B6/12007 OR G02B6/122 OR G02B13/008 OR G02B19/0076 OR G02B23/18 OR G02B27/0189 OR G02B27/20 OR G02B27/62 OR G02B3/04 OR G02B30/10 OR G02B5/1861 OR G02B5/23 OR G02B6/0033 OR G02B6/0046 OR G02B7/34 OR G02B13/003 OR G02B15/142 OR G02B19/009 OR G02B2003/0093 OR G02B2027/0196 OR G02B25/001 OR G02B27/0972 OR					

		G02B27/1033 OR G02B27/141 OR G02B27/425 OR G02B30/30 OR G02B6/0006 OR G02B6/0008 OR G02B6/0073 OR G02B6/009 OR G02B6/02085 OR G02B6/29316 OR G02B6/29328 OR G02B6/4206 OR G02B6/443 OR G02B6/4471 OR G02B7/028 OR G02B9/36 OR G02B1/10 OR G02B13/002 OR G02B13/006 OR G02B15/00 OR G02B15/10 OR G02B15/20 OR G02B17/0605 OR G02B19/0028 OR G02B19/0047 OR G02B2027/0109 OR G02B27/04 OR G02B27/144 OR G02B3/0087 OR G02B30/50 OR G02B5/10 OR G02B7/10 OR G02B13/0055 OR G02B13/04 OR G02B17/06 OR G02B17/08 OR G02B27/0961 OR G02B27/281 OR G02B5/0252 OR G02B5/12 OR G02B5/1809 OR G02B5/26 OR G02B5/281 OR G02B6/001 OR G02B6/02 OR G02B6/105 OR G02B7/182 OR G02B7/36).cpc.)					
L700	1946	L15 AND ((G02C11/10 OR G02C11/06 OR G02C7/04 OR G02C7/101 OR G02C11/00 OR G02C5/143 OR G02C5/14 OR G02C7/083 OR G02C11/04 OR G02C5/001 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO,	OR	ON	ON	2022/10/27 08:41 AM

		G02C5/146 OR G02C2200/02 OR G02C3/003 OR G02C5/16 OR G02C5/22 OR G02C7/086 OR G02C5/02 OR G02C7/06 OR G02C2200/08 OR G02C7/16 OR G02C7/02 OR G02C5/20 OR G02C9/00 OR G02C5/12 OR G02C7/00 OR G02C7/085 OR G02C13/003 OR G02C9/04 OR G02C7/08 OR G02C7/081 OR G02C2202/10 OR G02C7/12 OR G02C2200/10 OR G02C2202/24 OR G02C7/049 OR G02C5/124 OR G02C5/2227 OR G02C5/2254 OR G02C1/00 OR G02C1/06 OR G02C1/10 OR G02C2200/06 OR G02C2200/18 OR G02C7/102 OR G02C11/08 OR G02C7/104 OR G02C2202/22 OR G02C5/2209 OR G02C5/2218 OR G02C7/088 OR G02C7/105 OR G02C3/006 OR G02C7/021 OR G02C9/02 OR G02C11/02 OR G02C5/2263 OR G02C2200/26 OR G02C5/122 OR G02C7/10).cpc.)	NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L701	4158	L17 AND ((G02B27/017 OR G02B2027/0178 OR G02B27/0172 OR G02B2027/014 OR G02B2027/0138 OR G02B2027/0187 OR G02B27/0093 OR G02B27/0176 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO,	OR	ON	ON	2022/10/27 08:41 AM

		G02B2027/0134 OR G02B2027/0141 OR G02B27/01 OR G02B2027/0118 OR G02B27/0179 OR G02B27/0101 OR G02B2027/0127 OR G02B2027/0174 OR G02B2027/0132 OR G02B2027/0123 OR G02B2027/0156 OR G02B2027/0185 OR G02B2027/0147 OR G02B6/34 OR G02B26/001 OR G02B13/0045 OR G02B27/0081 OR G02B26/101 OR G02B27/646 OR G02B6/005 OR G02B2027/0112 OR G02B2027/0125 OR G02B27/022 OR G02B30/34 OR G02B27/0075 OR G02B2027/0169 OR G02B7/09 OR G02B2027/0181 OR G02B13/06 OR G02B27/028 OR G02B2027/0154 OR G02B5/208 OR G02B27/4205 OR G02B5/30 OR G02B6/0035 OR G02B26/0833 OR G02B5/3025 OR G02B27/283 OR G02B6/0036 OR G02B6/0038 OR G02B6/0076 OR G02B6/10 OR G02B6/0001 OR G02B2027/012 OR G02B2027/011 OR G02B27/286 OR G02B2027/0114 OR G02B27/42 OR G02B5/32 OR G02B7/023 OR G02B2027/0105 OR G02B27/4227 OR G02B3/14 OR G02B9/64 OR G02B30/24 OR G02B6/0016 OR G02B6/0023 OR G02B7/08 OR	MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

		G02B13/004 OR G02B27/0018 OR G02B27/30 OR G02B7/021 OR G02B5/08 OR G02B6/0068 OR G02B9/60 OR G02B7/02 OR G02B27/02 OR G02B27/00 OR G02B30/40 OR G02B7/008 OR G02B6/0053 OR G02B26/10 OR G02B26/105 OR G02B27/1086 OR G02B5/1823 OR G02B5/1857 OR G02B5/1866 OR G02B5/1871 OR G02B6/29325 OR G02B9/62 OR G02B2027/0161 OR G02B5/005 OR G02B13/02 OR G02B13/009 OR G02B7/102 OR G02B2027/0159 OR G02B30/00 OR G02B2027/015 OR G02B3/0006 OR G02B6/0055 OR G02B6/0088 OR G02B2027/0136 OR G02B21/365 OR G02B6/003 OR G02B2027/0194 OR G02B2027/0198 OR G02B6/0011 OR G02B6/0065 OR G02B7/04 OR G02B2027/0163 OR G02B21/06 OR G02B5/3083 OR G02B9/34 OR G02B13/18 OR G02B27/0977 OR G02B6/00 OR G02B2027/013 OR G02B27/0149 OR G02B27/4272 OR G02B2027/0152 OR G02B5/201 OR G02B6/0051 OR G02B1/002 OR G02B5/20 OR G02B7/12 OR G02B26/0841 OR					

		G02B27/0025 OR G02B27/0955 OR G02B1/041 OR G02B26/005 OR G02B30/56 OR G02B2027/0183 OR G02B27/0103 OR G02B13/0065 OR G02B26/00 OR G02B26/007 OR G02B26/026 OR G02B30/23 OR G02B30/52 OR G02B7/28 OR G02B2027/0116 OR G02B6/0018 OR G02B6/002 OR G02B6/0028 OR G02B6/0078 OR G02B9/04 OR G02B19/0057 OR G02B27/0916 OR G02B5/3016 OR G02B2027/0107 OR G02B2027/0129 OR G02B3/02 OR G02B5/223 OR G02B6/0056 OR G02B6/2706 OR G02B13/00 OR G02B13/001 OR G02B13/0035 OR G02B26/004 OR G02B30/27 OR G02B6/0021 OR G02B2027/0143 OR G02B26/0825 OR G02B3/00 OR G02B3/08 OR G02B6/32 OR G02B7/002 OR G02B13/0015 OR G02B13/008 OR G02B27/0037 OR G02B30/35 OR G02B6/0031 OR G02B6/0033 OR G02B1/11 OR G02B13/003 OR G02B13/14 OR G02B19/009 OR G02B26/0816 OR G02B27/0006 OR G02B27/10 OR G02B27/102 OR G02B3/0037 OR G02B3/0056 OR G02B30/36 OR					

		G02B5/04 OR G02B5/18 OR G02B6/0006 OR G02B6/0008 OR G02B6/0025 OR G02B6/009 OR G02B6/12007 OR G02B6/29316 OR G02B6/29328 OR G02B6/4204 OR G02B6/443 OR G02B6/4471 OR G02B9/36 OR G02B13/002 OR G02B13/006 OR G02B15/142 OR G02B17/0605 OR G02B2027/0145 OR G02B27/141 OR G02B27/64 OR G02B3/0068 OR G02B6/0073 OR G02B7/10 OR G02B9/12 OR G02B17/086 OR G02B27/425 OR G02B27/48 OR G02B3/12 OR G02B30/25 OR G02B5/26 OR G02B6/006 OR G02B6/0083 OR G02B6/105 OR G02B6/124 OR G02B7/003 OR G02B7/182 OR G02B27/0068 OR G02B27/0972 OR G02B27/144 OR G02B5/23 OR G02B6/001 OR G02B6/0046 OR G02B13/04 OR G02B15/10 OR G02B17/08 OR G02B2027/0196 OR G02B26/08 OR G02B27/0961 OR G02B27/1033 OR G02B27/281 OR G02B3/0087 OR G02B30/10 OR G02B5/124 OR G02B6/0015 OR G02B6/0086 OR G02B6/02066 OR G02B6/29356 OR G02B6/325 OR					

		G02B6/4206 OR G02B7/285 OR G02B13/0005 OR G02B13/0055 OR G02B2003/0093 OR G02B2027/0109 OR G02B23/00 OR G02B25/001 OR G02B27/005 OR G02B27/04 OR G02B27/149 OR G02B27/62 OR G02B30/31 OR G02B5/1809 OR G02B5/1842 OR G02B5/1847 OR G02B5/206 OR G02B6/0026 OR G02B6/0045 OR G02B6/122 OR G02B6/1221 OR G02B6/274 OR G02B6/2766 OR G02B6/42).cpc.)					
L702	1008	L17 AND ((G02C11/10 OR G02C11/06 OR G02C7/04 OR G02C11/00 OR G02C7/101 OR G02C5/14 OR G02C5/143 OR G02C5/001 OR G02C5/146 OR G02C2200/02 OR G02C3/003 OR G02C5/22 OR G02C11/04 OR G02C7/083 OR G02C5/16 OR G02C2200/08 OR G02C5/12 OR G02C7/00 OR G02C9/00 OR G02C7/081 OR G02C5/02 OR G02C7/02 OR G02C2200/10 OR G02C7/049 OR G02C7/086 OR G02C7/12 OR G02C7/08 OR G02C9/04 OR G02C7/16 OR G02C1/00 OR G02C1/10 OR G02C7/06 OR G02C1/06 OR G02C7/104 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM

		G02C5/20 OR G02C2202/10 OR G02C7/021 OR G02C7/085 OR G02C9/02 OR G02C7/105 OR G02C5/006 OR G02C5/045 OR G02C7/022 OR G02C7/041 OR G02C7/10).cpc.)					
L703	7438	L30 AND ((G02B27/017 OR G02B2027/0178 OR G02B27/0172 OR G02B2027/014 OR G02B2027/0138 OR G02B2027/0187 OR G02B27/0093 OR G02B27/0176 OR G02B2027/0141 OR G02B2027/0134 OR G02B27/01 OR G02B27/0179 OR G02B27/0101 OR G02B2027/0127 OR G02B2027/0118 OR G02B2027/0174 OR G02B2027/0132 OR G02B2027/0185 OR G02B2027/0156 OR G02B2027/0123 OR G02B26/001 OR G02B13/0045 OR G02B6/34 OR G02B27/0081 OR G02B2027/0147 OR G02B26/101 OR G02B6/005 OR G02B2027/0112 OR G02B27/646 OR G02B27/022 OR G02B30/34 OR G02B2027/0125 OR G02B2027/0169 OR G02B7/09 OR G02B13/06 OR G02B2027/0181 OR G02B27/028 OR G02B2027/0154 OR G02B27/0075 OR G02B5/208 OR G02B27/4205 OR G02B6/0036 OR G02B6/0038 OR G02B27/283 OR G02B6/0076 OR G02B5/3025 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM

		G02B6/10 OR G02B6/0001 OR G02B2027/012 OR G02B2027/0114 OR G02B27/42 OR G02B5/32 OR G02B7/023 OR G02B26/0833 OR G02B27/4227 OR G02B2027/0105 OR G02B6/0035 OR G02B9/64 OR G02B5/30 OR G02B13/004 OR G02B27/0018 OR G02B27/30 OR G02B30/24 OR G02B5/08 OR G02B6/0016 OR G02B6/0023 OR G02B6/0068 OR G02B9/60 OR G02B27/286 OR G02B7/02 OR G02B7/021 OR G02B2027/011 OR G02B27/02 OR G02B30/40 OR G02B7/008 OR G02B26/10 OR G02B26/105 OR G02B27/1086 OR G02B5/1823 OR G02B5/1857 OR G02B5/1866 OR G02B5/1871 OR G02B6/0053 OR G02B6/29325 OR G02B7/08 OR G02B9/62 OR G02B5/005 OR G02B13/02 OR G02B7/102 OR G02B2027/0161 OR G02B3/14 OR G02B2027/0159 OR G02B27/00 OR G02B30/00 OR G02B2027/015 OR G02B21/365 OR G02B6/0055 OR G02B6/0088 OR G02B13/009 OR G02B2027/0198 OR G02B7/04 OR G02B2027/0136 OR G02B2027/0163 OR G02B2027/0194 OR					

		G02B21/06 OR G02B6/0011 OR G02B6/0065 OR G02B9/34 OR G02B13/18 OR G02B2027/013 OR G02B27/0149 OR G02B27/0977 OR G02B5/3083 OR G02B5/201 OR G02B6/0051 OR G02B1/002 OR G02B3/0006 OR G02B5/20 OR G02B26/0841 OR G02B27/0955 OR G02B7/12 OR G02B1/041 OR G02B2027/0152 OR G02B27/0025 OR G02B2027/0183 OR G02B26/005 OR G02B27/0103 OR G02B27/4272 OR G02B6/00 OR G02B13/0065 OR G02B26/00 OR G02B26/007 OR G02B26/026 OR G02B30/23 OR G02B30/52 OR G02B2027/0116 OR G02B30/56 OR G02B6/0078 OR G02B9/04 OR G02B19/0057 OR G02B27/0916 OR G02B6/0028 OR G02B6/003 OR G02B2027/0107 OR G02B6/0018 OR G02B6/002 OR G02B2027/0129 OR G02B3/02 OR G02B5/3016 OR G02B6/0056 OR G02B13/0035 OR G02B6/0021 OR G02B6/2706 OR G02B13/00 OR G02B26/004 OR G02B3/08 OR G02B13/0015 OR G02B13/008 OR G02B2027/0143 OR G02B27/0037 OR G02B6/0031 OR G02B6/0033 OR					

		G02B7/002 OR G02B7/28 OR G02B13/003 OR G02B13/14 OR G02B19/009 OR G02B27/0006 OR G02B27/102 OR G02B3/00 OR G02B3/0037 OR G02B3/0056 OR G02B30/36 OR G02B5/04 OR G02B5/223 OR G02B6/0025 OR G02B6/009 OR G02B6/12007 OR G02B6/29316 OR G02B6/29328 OR G02B9/36 OR G02B1/11 OR G02B13/002 OR G02B15/142 OR G02B2027/0145 OR G02B27/141 OR G02B3/0068 OR G02B6/0073 OR G02B9/12 OR G02B13/001 OR G02B13/006 OR G02B17/086 OR G02B27/425 OR G02B27/48 OR G02B27/64 OR G02B3/12 OR G02B30/25 OR G02B30/35 OR G02B5/18 OR G02B6/0083 OR G02B6/124 OR G02B6/32 OR G02B7/10 OR G02B7/182 OR G02B26/0816 OR G02B27/0068 OR G02B27/0972 OR G02B27/10 OR G02B5/26 OR G02B6/001 OR G02B6/006 OR G02B7/003 OR G02B13/04 OR G02B15/10 OR G02B17/08 OR G02B26/08 OR G02B27/0961 OR G02B27/281 OR G02B3/0087 OR G02B5/124 OR					

		G02B6/0015 OR G02B6/0046 OR G02B6/0086 OR G02B6/29356 OR G02B6/4206 OR G02B13/0055 OR G02B17/0605 OR G02B2003/0093 OR G02B2027/0109 OR G02B23/00 OR G02B25/001 OR G02B27/005 OR G02B27/62 OR G02B30/27 OR G02B30/31 OR G02B5/1809 OR G02B5/1842 OR G02B5/1847 OR G02B5/206 OR G02B5/23 OR G02B6/0026 OR G02B6/0045 OR G02B6/122 OR G02B6/1221 OR G02B6/42 OR G02B7/285).cpc.)					
L704	1775	L30 AND ((G02C11/10 OR G02C11/06 OR G02C7/04 OR G02C11/00 OR G02C5/14 OR G02C7/101 OR G02C5/143 OR G02C5/001 OR G02C3/003 OR G02C5/146 OR G02C2200/02 OR G02C5/22 OR G02C11/04 OR G02C5/16 OR G02C7/083 OR G02C2200/08 OR G02C5/12 OR G02C9/00 OR G02C5/02 OR G02C2200/10 OR G02C7/081 OR G02C7/086 OR G02C7/00 OR G02C7/02 OR G02C9/04 OR G02C7/16 OR G02C7/049 OR G02C1/00 OR G02C1/10 OR G02C7/06 OR G02C7/08 OR G02C1/06 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM

		G02C5/20 OR G02C7/021 OR G02C7/12 OR G02C2202/10 OR G02C7/085 OR G02C5/006 OR G02C9/02 OR G02C5/045 OR G02C7/10 OR G02C7/104).cpc.)					
L705	2019	L43 AND ((G02B27/017 OR G02B2027/0178 OR G02B27/0172 OR G02B2027/014 OR G02B2027/0138 OR G02B27/0093 OR G02B2027/0187 OR G02B27/0176 OR G02B2027/0127 OR G02B27/0101 OR G02B2027/0118 OR G02B2027/0134 OR G02B2027/0141 OR G02B27/0179 OR G02B2027/0156 OR G02B2027/0174 OR G02B2027/0132 OR G02B6/34 OR G02B2027/0123 OR G02B2027/0185 OR G02B27/01 OR G02B2027/0147 OR G02B27/4205 OR G02B26/101 OR G02B27/4227 OR G02B6/10 OR G02B2027/0105 OR G02B27/42 OR G02B26/001 OR G02B27/0081 OR G02B2027/0112 OR G02B13/0045 OR G02B2027/0169 OR G02B6/0001 OR G02B27/0075 OR G02B2027/0125 OR G02B27/028 OR G02B27/646 OR G02B6/0035 OR G02B27/022 OR G02B5/30 OR G02B6/005 OR G02B2027/0181 OR G02B2027/012 OR G02B26/0833 OR G02B27/283 OR G02B6/0038 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		G02B13/06 OR G02B6/0036 OR G02B2027/011 OR G02B3/14 OR G02B5/3025 OR G02B2027/0161 OR G02B7/09 OR G02B2027/0114 OR G02B27/286 OR G02B27/30 OR G02B5/32 OR G02B6/0016 OR G02B2027/0154 OR G02B27/0018 OR G02B6/0023 OR G02B6/0076 OR G02B5/3083 OR G02B6/003 OR G02B26/105 OR G02B5/208 OR G02B7/008 OR G02B2027/0194 OR G02B6/0068 OR G02B9/60 OR G02B9/64 OR G02B27/1086 OR G02B30/34 OR G02B5/005 OR G02B5/1823 OR G02B5/1857 OR G02B5/1866 OR G02B5/1871 OR G02B6/0055 OR G02B6/29325 OR G02B7/08 OR G02B13/004 OR G02B13/009 OR G02B2027/015 OR G02B27/0977 OR G02B5/08 OR G02B19/0057 OR G02B27/0916 OR G02B6/00 OR G02B6/0053 OR G02B7/102 OR G02B13/02 OR G02B2027/013 OR G02B2027/0136 OR G02B26/10 OR G02B27/0103 OR G02B27/0149 OR G02B30/56 OR G02B27/0025 OR G02B27/4272 OR G02B30/27 OR G02B30/52 OR G02B6/0088 OR G02B9/62 OR					

		G02B13/0065 OR G02B30/00 OR G02B6/0006 OR G02B6/0008 OR G02B6/4204 OR G02B6/443 OR G02B6/4471 OR G02B7/023 OR G02B2027/0145 OR G02B2027/0159 OR G02B2027/0163 OR G02B3/0006 OR G02B6/0065 OR G02B7/02 OR G02B7/04 OR G02B7/12 OR G02B1/002 OR G02B17/086 OR G02B2027/0152 OR G02B21/365 OR G02B26/0816 OR G02B27/02 OR G02B30/35 OR G02B5/04 OR G02B5/3016 OR G02B6/0018 OR G02B6/0031 OR G02B6/0078 OR G02B6/105 OR G02B7/003 OR G02B7/021 OR G02B9/34 OR G02B1/041 OR G02B15/10 OR G02B26/005 OR G02B27/00 OR G02B27/0955 OR G02B27/10 OR G02B27/1033 OR G02B6/002 OR G02B6/0051 OR G02B6/124 OR G02B13/001 OR G02B13/0035 OR G02B2027/0109 OR G02B2027/0183 OR G02B21/06 OR G02B26/00 OR G02B26/0841 OR G02B27/141 OR G02B27/425 OR G02B3/0087 OR G02B5/1809 OR G02B5/1847 OR G02B6/0026 OR G02B6/02066 OR G02B6/122 OR G02B6/1221 OR					

		G02B6/274 OR G02B6/2766 OR G02B9/04 OR G02B13/008 OR G02B13/14 OR G02B2027/0107 OR G02B2027/0143 OR G02B26/004 OR G02B26/007 OR G02B27/0037 OR G02B5/18 OR G02B5/20 OR G02B5/201 OR G02B6/0021 OR G02B6/0056 OR G02B6/32 OR G02B7/002 OR G02B9/36 OR G02B13/00 OR G02B13/0015 OR G02B13/003 OR G02B13/04 OR G02B13/18 OR G02B15/142 OR G02B19/009 OR G02B2027/0116 OR G02B27/0972 OR G02B27/281 OR G02B27/64 OR G02B3/00 OR G02B30/10 OR G02B30/24 OR G02B30/26 OR G02B5/26 OR G02B6/0028 OR G02B6/0045 OR G02B6/0046 OR G02B6/0073 OR G02B6/0083 OR G02B6/009 OR G02B9/12 OR G02B13/006 OR G02B17/0605 OR G02B2003/0093 OR G02B2027/0198 OR G02B2207/113 OR G02B25/001 OR G02B26/103 OR G02B27/0944 OR G02B27/1046 OR G02B27/4294 OR G02B27/58 OR G02B3/0056 OR G02B3/08 OR G02B3/12 OR G02B5/124 OR G02B5/223 OR G02B5/3058 OR					

		G02B6/0025 OR G02B6/0033 OR G02B6/0061 OR G02B6/12009 OR G02B6/29356 OR G02B7/10 OR G02B1/00 OR G02B1/10 OR G02B1/11 OR G02B13/002 OR G02B13/007 OR G02B15/1421 OR G02B15/143503 OR G02B15/144105 OR G02B15/144113 OR G02B15/1451 OR G02B15/26 OR G02B19/0014 OR G02B19/0076 OR G02B2027/0129 OR G02B2027/019 OR G02B2027/0196 OR G02B21/0012 OR G02B2207/115 OR G02B23/00 OR G02B23/18 OR G02B26/023 OR G02B26/0808 OR G02B26/085 OR G02B26/0858 OR G02B26/0875 OR G02B27/0189 OR G02B27/024 OR G02B27/144 OR G02B27/149 OR G02B27/28 OR G02B27/288 OR G02B27/44 OR G02B27/48 OR G02B3/005 OR G02B30/22 OR G02B30/36 OR G02B30/50 OR G02B5/0284 OR G02B5/1842 OR G02B5/1876 OR G02B5/22 OR G02B5/23 OR G02B6/0011 OR G02B6/0015 OR G02B6/0048 OR G02B6/0058 OR G02B6/006 OR G02B6/0086 OR G02B6/02 OR G02B6/06 OR G02B6/12019 OR G02B6/27 OR					

		G02B6/4206 OR G02B7/005 OR G02B7/028 OR G02B7/105 OR G02B7/1821 OR G02B7/1822 OR G02B7/1824 OR G02B7/28 OR G02B7/285 OR G02B7/346 OR G02B7/38 OR G02B9/18).cpc.)					
L706	502	L43 AND ((G02C11/10 OR G02C11/06 OR G02C7/04 OR G02C5/143 OR G02C11/00 OR G02C5/146 OR G02C5/001 OR G02C5/14 OR G02C7/101 OR G02C3/003 OR G02C2200/08 OR G02C2200/02 OR G02C7/083 OR G02C7/12 OR G02C5/16 OR G02C5/22 OR G02C7/16 OR G02C7/086 OR G02C9/04 OR G02C11/04 OR G02C2200/10 OR G02C5/12 OR G02C9/00 OR G02C7/06 OR G02C7/081 OR G02C7/104 OR G02C5/02 OR G02C7/105 OR G02C7/08 OR G02C5/006 OR G02C7/00 OR G02C1/10 OR G02C5/20 OR G02C5/045 OR G02C7/021 OR G02C1/06 OR G02C2202/06 OR G02C3/006 OR G02C5/08 OR G02C5/2209 OR G02C5/2272 OR G02C9/02 OR G02C2200/26 OR G02C3/04 OR G02C5/2236 OR G02C5/2254 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		G02C5/2263 OR G02C7/02).cpc.)					
L707	1711	L44 AND ((G02B27/017 OR G02B2027/0178 OR G02B27/0172 OR G02B2027/014 OR G02B2027/0138 OR G02B27/0093 OR G02B2027/0187 OR G02B27/0176 OR G02B2027/0127 OR G02B2027/0118 OR G02B2027/0134 OR G02B27/0101 OR G02B27/0179 OR G02B2027/0141 OR G02B2027/0156 OR G02B6/34 OR G02B2027/0132 OR G02B2027/0174 OR G02B2027/0185 OR G02B2027/0123 OR G02B2027/0147 OR G02B27/01 OR G02B27/4205 OR G02B6/10 OR G02B2027/0105 OR G02B26/101 OR G02B27/42 OR G02B27/4227 OR G02B26/001 OR G02B2027/0169 OR G02B27/0081 OR G02B27/0075 OR G02B27/028 OR G02B2027/0112 OR G02B2027/0125 OR G02B6/0001 OR G02B6/0035 OR G02B27/022 OR G02B6/005 OR G02B2027/012 OR G02B27/283 OR G02B5/30 OR G02B6/0038 OR G02B6/0036 OR G02B13/0045 OR G02B2027/0181 OR G02B5/3025 OR G02B2027/0161 OR G02B2027/011 OR G02B2027/0114 OR G02B27/30 OR G02B6/0016 OR G02B2027/0154 OR G02B27/286 OR G02B3/14 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		G02B6/0023 OR G02B5/3083 OR G02B6/003 OR G02B6/0076 OR G02B27/0018 OR G02B7/008 OR G02B26/0833 OR G02B13/06 OR G02B2027/0194 OR G02B27/1086 OR G02B5/1823 OR G02B5/1857 OR G02B5/1866 OR G02B5/1871 OR G02B6/0055 OR G02B6/29325 OR G02B2027/015 OR G02B30/34 OR G02B26/105 OR G02B6/0053 OR G02B26/10 OR G02B27/0103 OR G02B27/646 OR G02B5/08 OR G02B9/60 OR G02B2027/0136 OR G02B30/27 OR G02B30/52 OR G02B5/208 OR G02B6/0068 OR G02B6/0088 OR G02B7/09 OR G02B9/62 OR G02B13/009 OR G02B2027/013 OR G02B30/56 OR G02B5/32 OR G02B6/0006 OR G02B6/0008 OR G02B6/4204 OR G02B6/443 OR G02B6/4471 OR G02B9/64 OR G02B2027/0163 OR G02B27/0977 OR G02B6/0065 OR G02B13/004 OR G02B2027/0159 OR G02B30/00 OR G02B6/00 OR G02B7/023 OR G02B7/12 OR G02B1/002 OR G02B17/086 OR G02B2027/0145 OR G02B21/365 OR G02B27/0025 OR G02B27/02 OR					

		G02B5/04 OR G02B5/3016 OR G02B6/0018 OR G02B6/0031 OR G02B6/105 OR G02B7/003 OR G02B13/02 OR G02B2027/0152 OR G02B27/00 OR G02B27/0149 OR G02B27/10 OR G02B27/1033 OR G02B27/4272 OR G02B6/002 OR G02B6/0051 OR G02B6/124 OR G02B13/001 OR G02B13/0035 OR G02B15/10 OR G02B2027/0109 OR G02B2027/0183 OR G02B21/06 OR G02B26/00 OR G02B27/141 OR G02B27/425 OR G02B3/0006 OR G02B30/35 OR G02B5/005 OR G02B5/1809 OR G02B5/1847 OR G02B6/0026 OR G02B6/02066 OR G02B6/122 OR G02B6/1221 OR G02B6/274 OR G02B6/2766 OR G02B7/021 OR G02B7/04 OR G02B7/08 OR G02B1/041 OR G02B13/0065 OR G02B13/008 OR G02B13/14 OR G02B2027/0107 OR G02B2027/0143 OR G02B26/005 OR G02B26/007 OR G02B5/20 OR G02B6/0056 OR G02B6/32 OR G02B7/002 OR G02B9/36 OR G02B13/003 OR G02B13/18 OR G02B15/142 OR G02B19/009 OR G02B2027/0116 OR G02B26/0816 OR					

		G02B27/0972 OR G02B27/281 OR G02B27/64 OR G02B3/00 OR G02B30/10 OR G02B30/24 OR G02B30/26 OR G02B5/18 OR G02B5/26 OR G02B6/0045 OR G02B6/0046 OR G02B6/0073 OR G02B6/0083 OR G02B6/009 OR G02B7/02 OR G02B7/102 OR G02B9/04 OR G02B9/12 OR G02B9/34 OR G02B17/0605 OR G02B2027/0198 OR G02B2207/113 OR G02B25/001 OR G02B26/0841 OR G02B26/103 OR G02B27/0037 OR G02B27/0944 OR G02B27/0955 OR G02B27/1046 OR G02B27/4294 OR G02B27/58 OR G02B5/124 OR G02B5/201 OR G02B5/223 OR G02B6/0025 OR G02B6/0028 OR G02B6/0033 OR G02B6/0061 OR G02B6/0078 OR G02B6/12009 OR G02B6/29356 OR G02B1/00 OR G02B1/10 OR G02B13/007 OR G02B13/04 OR G02B15/1421 OR G02B2027/0129 OR G02B2027/019 OR G02B2027/0196 OR G02B21/0012 OR G02B2207/115 OR G02B23/00 OR G02B23/18 OR G02B26/004 OR G02B26/0808 OR G02B26/085 OR G02B26/0858 OR G02B26/0875 OR					

		G02B27/0189 OR G02B27/024 OR G02B27/144 OR G02B27/149 OR G02B27/44 OR G02B27/48 OR G02B3/005 OR G02B30/22 OR G02B30/36 OR G02B30/50 OR G02B5/0284 OR G02B5/1842 OR G02B5/1876 OR G02B5/22 OR G02B5/23 OR G02B5/3058 OR G02B6/0011 OR G02B6/0015 OR G02B6/0048 OR G02B6/0058 OR G02B6/006 OR G02B6/0086 OR G02B6/02 OR G02B6/06 OR G02B6/12019 OR G02B6/27 OR G02B7/005 OR G02B7/105 OR G02B7/1824 OR G02B7/28 OR G02B7/285 OR G02B7/346 OR G02B1/007 OR G02B1/04 OR G02B1/115 OR G02B1/118 OR G02B13/0055 OR G02B13/006 OR G02B13/0075 OR G02B15/06 OR G02B17/08 OR G02B19/0047 OR G02B2003/0093 OR G02B2027/0158 OR G02B2027/0192 OR G02B21/00 OR G02B2207/101 OR G02B2207/123 OR G02B27/0068 OR G02B27/0938 OR G02B27/0961 OR G02B27/108 OR G02B27/142 OR G02B27/28 OR G02B27/285 OR G02B27/62 OR G02B3/0037 OR G02B3/0056 OR				

		G02B3/0068 OR G02B3/02 OR G02B3/04 OR G02B3/08 OR G02B30/29 OR G02B30/31 OR G02B5/0252 OR G02B5/045 OR G02B5/0841 OR G02B5/10 OR G02B5/12 OR G02B5/122 OR G02B5/128 OR G02B5/136 OR G02B5/1861 OR G02B5/28 OR G02B6/0085 OR G02B6/2706 OR G02B6/276 OR G02B6/29311 OR G02B6/3512 OR G02B6/3522 OR G02B6/4214 OR G02B7/10 OR G02B7/287).cpc.)					
L708	466	L44 AND ((G02C11/10 OR G02C11/06 OR G02C7/04 OR G02C5/143 OR G02C5/146 OR G02C11/00 OR G02C5/14 OR G02C7/101 OR G02C5/001 OR G02C3/003 OR G02C2200/08 OR G02C7/083 OR G02C2200/02 OR G02C7/12 OR G02C5/16 OR G02C7/16 OR G02C7/086 OR G02C9/04 OR G02C2200/10 OR G02C5/22 OR G02C11/04 OR G02C9/00 OR G02C7/06 OR G02C7/081 OR G02C5/02 OR G02C5/12 OR G02C7/104 OR G02C7/105 OR G02C7/08 OR G02C5/006 OR G02C7/00 OR G02C5/20 OR G02C5/045 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		G02C7/021 OR G02C2202/06 OR G02C3/006 OR G02C5/08 OR G02C5/2209 OR G02C5/2272 OR G02C9/02 OR G02C1/10 OR G02C2200/26 OR G02C3/04 OR G02C5/2236 OR G02C5/2254 OR G02C5/2263 OR G02C7/02 OR G02C11/08 OR G02C13/005 OR G02C2202/10 OR G02C5/003 OR G02C5/126 OR G02C5/2227 OR G02C5/2281 OR G02C7/022 OR G02C7/085).cpc.)					
L709	602	L45 AND ((G02B27/017 OR G02B2027/0178 OR G02B2027/014 OR G02B27/0172 OR G02B2027/0138 OR G02B27/0093 OR G02B2027/0187 OR G02B2027/0118 OR G02B27/0176 OR G02B27/0101 OR G02B2027/0134 OR G02B2027/0127 OR G02B6/34 OR G02B2027/0123 OR G02B2027/0147 OR G02B5/30 OR G02B27/0081 OR G02B27/0179 OR G02B2027/0185 OR G02B27/4205 OR G02B6/005 OR G02B2027/0105 OR G02B27/01 OR G02B27/42 OR G02B27/4227 OR G02B6/10 OR G02B2027/0174 OR G02B6/0038 OR G02B6/0076 OR G02B7/008 OR G02B27/283 OR G02B2027/0114 OR G02B2027/012 OR G02B2027/0125 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		G02B2027/0132 OR G02B27/0018 OR G02B27/1086 OR G02B27/30 OR G02B5/1823 OR G02B5/1857 OR G02B5/1866 OR G02B5/1871 OR G02B5/3025 OR G02B6/0016 OR G02B6/0023 OR G02B6/0035 OR G02B6/0036 OR G02B6/29325 OR G02B2027/0156 OR G02B2027/0141 OR G02B27/0103 OR G02B26/001 OR G02B7/12 OR G02B30/52 OR G02B1/002 OR G02B2027/0161 OR G02B21/06 OR G02B21/365 OR G02B26/00 OR G02B27/02 OR G02B27/10 OR G02B27/286 OR G02B30/34 OR G02B30/56 OR G02B5/08 OR G02B5/1809 OR G02B5/1847 OR G02B5/3083 OR G02B6/0026 OR G02B6/122 OR G02B6/1221 OR G02B6/124 OR G02B7/04 OR G02B2027/0109 OR G02B2027/0136 OR G02B26/101 OR G02B6/0018 OR G02B6/002 OR G02B19/009 OR G02B2027/0116 OR G02B2027/013 OR G02B2027/015 OR G02B2027/0152 OR G02B2027/0163 OR G02B2027/0181 OR G02B26/105 OR G02B27/0075 OR G02B27/0149 OR G02B6/0053 OR G02B2027/011 OR G02B2027/0112 OR G02B2027/0154 OR					

		G02B2027/0194 OR G02B27/00 OR G02B27/141 OR G02B5/04 OR G02B5/18 OR G02B6/00 OR G02B6/12009 OR G02B2027/0159 OR G02B2207/113 OR G02B2207/115 OR G02B26/0816 OR G02B26/103 OR G02B3/005 OR G02B30/35 OR G02B30/36 OR G02B5/23 OR G02B5/3058 OR G02B6/0028 OR G02B6/003 OR G02B6/0045 OR G02B6/0055 OR G02B6/0056 OR G02B6/006 OR G02B6/0065 OR G02B6/0068 OR G02B6/0088 OR G02B6/12019 OR G02B1/041 OR G02B19/0047 OR G02B2003/0093 OR G02B2027/019 OR G02B2027/0192 OR G02B21/0012 OR G02B27/0025 OR G02B27/0189 OR G02B27/0961 OR G02B27/0972 OR G02B3/00 OR G02B3/0068 OR G02B3/08 OR G02B3/14 OR G02B30/26 OR G02B5/045 OR G02B5/1842 OR G02B5/28 OR G02B6/32 OR G02B6/3512 OR G02B7/287).cpc.)					
L710	318	L45 AND ((G02C11/10 OR G02C11/06 OR G02C5/143 OR G02C5/14 OR G02C7/101 OR G02C3/003 OR G02C7/04 OR G02C5/001 OR G02C5/146 OR G02C7/083 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		G02C2200/08 OR G02C11/00 OR G02C5/16 OR G02C2200/10 OR G02C11/04 OR G02C7/12 OR G02C7/081 OR G02C7/06 OR G02C7/104 OR G02C7/16 OR G02C7/08 OR G02C2200/02 OR G02C7/00 OR G02C7/105 OR G02C9/00 OR G02C7/086 OR G02C9/04 OR G02C5/20 OR G02C7/021 OR G02C2202/06 OR G02C5/006 OR G02C5/045 OR G02C5/08 OR G02C5/2209 OR G02C5/2272 OR G02C1/10 OR G02C5/12 OR G02C5/22 OR G02C5/2236 OR G02C5/2254 OR G02C7/02 OR G02C11/08 OR G02C13/005 OR G02C5/02 OR G02C5/2227 OR G02C5/2263 OR G02C5/2281 OR G02C7/022 OR G02C9/02).cpc.)					
L711	135	L47 AND ((G02B2027/0178 OR G02B27/017 OR G02B2027/014 OR G02B27/0172 OR G02B27/0093 OR G02B2027/0138 OR G02B2027/0187 OR G02B6/34 OR G02B27/0176 OR G02B2027/0118 OR G02B2027/0127 OR G02B27/0101 OR G02B27/0081 OR G02B27/4205 OR G02B2027/0105 OR G02B2027/0185 OR G02B27/0179 OR G02B27/42 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		G02B27/4227 OR G02B6/10 OR G02B6/0038 OR G02B6/005 OR G02B6/0076 OR G02B7/008 OR G02B27/283 OR G02B2027/0114 OR G02B2027/012 OR G02B2027/0125 OR G02B2027/0174 OR G02B27/0018 OR G02B27/1086 OR G02B27/30 OR G02B5/1823 OR G02B5/1857 OR G02B5/1866 OR G02B5/1871 OR G02B5/3025 OR G02B6/0016 OR G02B6/0023 OR G02B6/0035 OR G02B6/0036 OR G02B6/29325 OR G02B5/30 OR G02B2027/0132 OR G02B2027/0134 OR G02B2027/0156 OR G02B2027/0123 OR G02B21/06 OR G02B21/365 OR G02B27/286 OR G02B30/52 OR G02B27/01 OR G02B6/0018 OR G02B6/002 OR G02B2027/0147 OR G02B2027/015 OR G02B27/0149 OR G02B6/0053 OR G02B2027/0112 OR G02B2027/0141 OR G02B2027/0152 OR G02B2027/0161 OR G02B5/18 OR G02B6/00 OR G02B6/12009 OR G02B7/12 OR G02B2027/011 OR G02B2027/0154 OR G02B2207/113 OR G02B2207/115 OR G02B27/0075 OR G02B5/23 OR G02B5/3058 OR G02B6/0028 OR G02B6/003 OR G02B6/0045 OR					

		G02B6/0056 OR G02B6/006 OR G02B6/0065 OR G02B6/0068 OR G02B6/0088 OR G02B6/12019 OR G02B2027/013 OR G02B2027/0163 OR G02B2027/0181 OR G02B2027/019 OR G02B27/0189 OR G02B30/26 OR G02B5/04 OR G02B5/1842 OR G02B5/28 OR G02B6/32 OR G02B6/3512).cpc.)					
L712	116	L47 AND ((G02C11/10 OR G02C11/06 OR G02C5/143 OR G02C5/14 OR G02C3/003 OR G02C5/001 OR G02C5/146 OR G02C2200/08 OR G02C5/16 OR G02C11/00 OR G02C11/04 OR G02C7/08 OR G02C7/081 OR G02C7/086 OR G02C9/00 OR G02C9/04 OR G02C2200/02 OR G02C2202/06 OR G02C5/045 OR G02C5/2209 OR G02C7/083 OR G02C7/101 OR G02C5/12 OR G02C13/005 OR G02C5/22 OR G02C5/2254 OR G02C5/2281 OR G02C7/022 OR G02C7/04 OR G02C9/02).cpc.)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L713	108	L48 AND ((G02B2027/0178 OR G02B27/017 OR G02B27/0093 OR G02B2027/014 OR G02B27/0172 OR G02B2027/0138 OR G02B2027/0187 OR G02B2027/0118 OR G02B5/30 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		G02B27/0176 OR G02B21/06 OR G02B21/365 OR G02B27/286 OR G02B2027/0134 OR G02B2027/0132 OR G02B2027/0147 OR G02B6/0053 OR G02B2027/0112 OR G02B2027/0127 OR G02B27/0149 OR G02B5/18 OR G02B6/12009 OR G02B2027/011 OR G02B2027/0123 OR G02B2027/0141 OR G02B2027/0156 OR G02B2207/113 OR G02B2207/115 OR G02B27/0075 OR G02B27/01 OR G02B27/0101 OR G02B5/23 OR G02B5/3058 OR G02B6/0018 OR G02B6/002 OR G02B6/0028 OR G02B6/003 OR G02B6/0038 OR G02B6/0045 OR G02B6/005 OR G02B6/0056 OR G02B6/006 OR G02B6/0065 OR G02B6/0068 OR G02B6/0076 OR G02B6/0088 OR G02B6/12019 OR G02B7/008 OR G02B27/0081 OR G02B5/04 OR G02B5/1842 OR G02B5/28).cpc.)					
L714	79	L48 AND ((G02C11/10 OR G02C11/06 OR G02C5/143 OR G02C5/14 OR G02C3/003 OR G02C5/146 OR G02C5/001 OR G02C2200/08 OR G02C11/04 OR G02C11/00 OR G02C7/081 OR G02C7/08 OR G02C7/086 OR G02C9/00 OR G02C2202/06 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		G02C5/2209 OR G02C7/083 OR G02C7/101 OR G02C9/04 OR G02C5/12 OR G02C5/22 OR G02C5/2254 OR G02C5/2281).cpc.)					
L715	7	L50 AND ((G02B2027/0178 OR G02B27/017 OR G02B27/0093 OR G02B2027/014 OR G02B27/0172 OR G02B2027/0138 OR G02B2027/0187 OR G02B2027/0118 OR G02B5/30 OR G02B27/0176 OR G02B2027/0134 OR G02B2027/0147 OR G02B2027/0112 OR G02B2027/0127 OR G02B2027/0132 OR G02B27/0149 OR G02B5/18 OR G02B6/12009 OR G02B2027/011 OR G02B2027/0123 OR G02B2207/113 OR G02B2207/115 OR G02B5/23 OR G02B5/3058 OR G02B6/0038 OR G02B6/0045 OR G02B6/0053 OR G02B6/0056 OR G02B6/12019 OR G02B7/008 OR G02B5/04 OR G02B5/1842 OR G02B5/28).cpc.)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L716	7	L50 AND ((G02C11/10 OR G02C11/06 OR G02C5/146 OR G02C5/143 OR G02C2200/08 OR G02C5/001 OR G02C11/04 OR G02C5/14 OR G02C7/081 OR G02C7/08 OR G02C7/086 OR G02C9/00 OR G02C2202/06 OR G02C5/2209 OR G02C7/083 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

		G02C7/101).cpc.)					
L717	6	L50 AND ((351/158 OR 351/121 OR 351/41 OR 351/116 OR 351/119 OR 359/630 OR 359/13 OR 359/554 OR 359/567 OR 381/327 OR 381/381).ccls.)	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L718	3423	(351/158,121).ccls.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L719	2559	(351/41,111).ccls.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L720	996	(351/123,124).ccls.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L721	3326	(359/13,629).ccls.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L722	5242	(359/630-633).ccls.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L723	3348	(381/381,327,328).ccls.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L724	3972	(381/380,370,381).ccls.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L725	161	29 AND 90	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L727	161	29 AND 92	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L729	161	29 AND 94	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L731	809	29 AND 96	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L732	161	46 AND 90	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L734	161	46 AND 92	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L736	161	46 AND 94	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L738	161	46 AND 96	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM

L739	313	g02c1/00.cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L740	5022	g02c11/10.cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L741	932	g02c11/06.cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L742	1097	g02c5/001.cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L743	1616	g02c5/02.cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L744	1035	g02c5/14.cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L745	1441	g02c5/146.cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L746	1322	g02c5/22.cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L747	8728	g02b27/01.cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L748	23862	g02b27/017.cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L749	8123	g02b27/0176.cpc.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/10/27 08:41 AM
L776	4	"16821810"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L777	3328	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2022/10/27 08:41 AM

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		speaker$2 AND (sound WITH guid$4)	EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L778	1193	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND (speaker$2 SAME (sound WITH guid$4))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L779	454	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND temple AND ((speaker$2 OR audio) SAME (sound WITH guid$4))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L780	41	(Artificial Intelligence) More like doc: JP-2005167902-A Text: (JP-2007318476-A OR JP-4887907-B2 OR JP-2009157290-A OR US-8174569-B2 OR JP-2004120154-A OR US-20070291966-A1 OR US-20030090439-A1 OR EP-1433160-A1 OR WO-03023756-A1 OR RU-2572049-C2 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO;	OR	ON	ON	2022/10/27 08:41 AM

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		JP-2006209144-A OR WO-2018186062-A1 OR US-20200053449-A1 OR JP-WO2018186062-A1 OR JP-2002539498-A OR US-11109137-B2 OR JP-7088172-B2 OR JP-2007266870-A OR US-6356392-B1 OR CN-110463221-B).did.	JPO; DERWENT; IBM_TDB)				
L784	219	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND ((temples SAME speakers) AND (sound WITH guid$4))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L785	10118	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND temple AND (speakers AND audio)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L786	959	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND (temple SAME (speakers WITH audio))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO;	OR	ON	ON	2022/10/27 08:41 AM

			JPO; DERWENT; IBM_TDB)				
L826	34	"9122082"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L827	164	"7278734"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L833	78	(US-10359459-$ | US-10624790-$ | US-10777048-$ | US-20030231293-$ | US-20040059212-$ | US-20040101178-$ | US-20060034478-$ | US-20070035830-$ | US-20080100792-$ | US-20090073375-$ | US-20090141233-$ | US-20120033061-$ | US-20130072828-$ | US-20130148519-$ | US-20140132913-$ | US-20160302992-$ | US-20170074721-$ | US-20170090219-$ | US-20170131575-$ | US-20170146829-$ | US-20170303187-$ | US-20190272800-$ | US-20190278110-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM

		20190285913-$ | US-20190310132-$ | US-20190318589-$ | US-20190387351-$ | US-20200012127-$ | US-20200364992-$ | US-3858001-$ | US-4904078-$ | US-5455637-$ | US-5541641-$ | US-5923398-$ | US-6091546-$ | US-6788309-$ | US-6816314-$ | US-6857741-$ | US-7023594-$ | US-7517083-$).DID.					
L834	16	(US-11042045-$ | US-11086147-$ | US-20050278446-$ | US-20070248238-$ | US-20080211921-$ | US-20120062357-$ | US-20210271116-$ | US-9922236-$).DID.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L835	20	(US-11086147-$ | US-11204512-$ | US-20050278446-$ | US-20080211921-$ | US-20120062357-$ | US-20190033622-$ | US-20210271116-$ | US-20210364827-$ | US-20210364828-$ | US-9922236-$).DID.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L836	40	(US-7976159-$ | US-8109629-$ | US-8142015-$ | US-8174569-$ | US-8337013-$ | US-8430507-$ | US-8434863-$ | US-8465151-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2022/10/27 08:41 AM

		8485661-$ | US-8500271-$ | US-8770742-$ | US-8905542-$ | US-9033493-$ | US-9244292-$ | US-9400390-$ | US-9405135-$ | US-9488520-$ | US-9547184-$ | US-9690121-$).DID.	MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L837	65	(US-7517083-$ | US-7527374-$ | US-7543934-$ | US-7581833-$ | US-7621634-$ | US-7648236-$ | US-7677723-$ | US-7760898-$ | US-7771046-$ | US-7792552-$ | US-7806525-$ | US-7922321-$ | US-7976159-$ | US-8109629-$ | US-8142015-$ | US-8174569-$ | US-8337013-$ | US-8430507-$ | US-8434863-$ | US-8465151-$ | US-8485661-$ | US-8500271-$ | US-8770742-$ | US-8905542-$ | US-9033493-$ | US-9244292-$ | US-9400390-$ | US-9405135-$ | US-9488520-$ | US-9547184-$ | US-9690121-$ | US-D369167-$).DID.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L841	40	(US-0011603-$ | US-0054092-$ | US-0104864-$ | US-0172691-$ | US-0226838-$ | US-0369402-$ | US-11243416-$ | US-20040104864-$ | US-20130172691-$ | US-20140226838-$ | US-20190369402-$ | US-20220011603-$ | US-20220054092-$ | US-5144344-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO;	OR	ON	ON	2022/10/27 08:41 AM

		5475798-$ | US-5777715-$ | US-6301050-$ | US-6346929-$ | US-6717737-$ | US-6771423-$).DID.	JPO; DERWENT; IBM_TDB)				
L842	13	(US-9880441-$ | US-9882992-$ | US-9910298-$ | US-9922236-$ | US-9939934-$ | US-9952883-$ | US-9965681-$).DID.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L843	85	"6771423"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L844	124	"5671037"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L845	60	"11183269"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	ON	ON	2022/10/27 08:41 AM

			CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L846	27	"10628831"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L847	29	"11204512"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 08:41 AM
L848	21258	(G02C11/10 OR G02C5/001 OR G02C5/14 OR G02C11/06).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK,	OR	ON	ON	2022/10/27 09:06 AM

			TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L849	690	848 AND 688	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 09:08 AM
L850	450	848 AND 689	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 09:08 AM
L851	165	848 AND 691	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 09:09 AM
L852	98	848 AND 693	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2022/10/27 09:09 AM

			EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L853	93	848 AND 784	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 09:09 AM
L854	133132	739 740 741 742 743 744 745 746 747 748 749	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 09:10 AM
L855	1010	854 AND 689	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO;	OR	ON	ON	2022/10/27 09:11 AM

			JPO; DERWENT; IBM_TDB)				
L856	179	854 AND 693	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 09:11 AM
L857	29	854 AND 694	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 09:11 AM
L858	342	(US-10042186-$ | US-10045732-$ | US-10108984-$ | US-10123732-$ | US-10180572-$ | US-10215568-$ | US-10227063-$ | US-10254856-$ | US-10276028-$ | US-10310296-$ | US-10310597-$ | US-10345625-$ | US-10359459-$ | US-10448867-$ | US-10463300-$ | US-10466491-$ | US-10466510-$ | US-10469916-$ | US-10473950-$ | US-10561376-$ | US-10613355-$ | US-10617342-$ | US-10624790-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 10:03 AM

		10649220-$ | US- 10663740-$ | US- 10678322-$ | US- 10684478-$ | US- 10684687-$ | US- 10686972-$ | US- 10690936-$ | US- 10722128-$ | US- 10742965-$ | US- 10777048-$ | US- 10824253-$ | US- 10831316-$ | US- 10853589-$ | US- 10908421-$ | US- 10997943-$ | US- 11042045-$ | US- 11061252-$ | US- 11086147-$ | US- 11115074-$ | US- 11137626-$ | US- 11138301-$ | US- 11156856-$ | US- 11204512-$ | US- 1255265-$ | US- 1917745-$ | US- 20020021407-$ | US- 20020081982-$ | US- 20020090103-$ | US- 20020098877-$ | US- 20030022690-$ | US- 20030032449-$ | US- 20030226978-$ | US- 20040096078-$ | US- 20050230596-$ | US- 20050248719-$ | US- 20050278446-$ | US- 20060034478-$ | US- 20060269079-$ | US- 20070186330-$ | US- 20070258040-$ | US- 20070270663-$ | US- 20070271116-$ | US- 20080062338-$ | US- 20080144854-$ | US- 20080273166-$ | US- 20090156128-$ | US- 20090201460-$ | US- 20120002160-$ | US- 20120105740-$ | US- 20120108215-$ | US- 20120176580-$ | US- 20120194550-$ | US- 20120249797-$ | US- 20130072828-$ | US- 20130143519-$ | US- 20130169513-$ | US- 20140176902-$ | US- 20140198293-$ | US-					

		20150309316-$ | US- 20150309534-$ | US- 20160187651-$ | US- 20160223832-$ | US- 20160239985-$ | US- 20190278110-$ | US- 20190285913-$ | US- 20200029140-$ | US- 20220011603-$ | US- 2249572-$ | US- 2638532-$ | US- 2794085-$ | US- 2818511-$ | US- 2830132-$ | US- 2874230-$ | US- 2904670-$ | US- 3060308-$ | US- 3597054-$ | US- 3710115-$ | US- 3858001-$ | US- 3883701-$ | US- 4165487-$ | US- 4254451-$ | US- 4283127-$ | US- 4322585-$ | US- 4348664-$ | US- 4389217-$ | US- 4526473-$ | US- 4535244-$ | US- 4608492-$ | US- 4683587-$ | US- 4751691-$ | US- 4757714-$ | US- 4806011-$ | US- 4822160-$ | US- 4822161-$ | US- 4851666-$ | US- 4851686-$ | US- 4856086-$ | US- 4859047-$ | US- 4882769-$ | US- 4962469-$ | US- 4967268-$ | US- 4985632-$ | US- 5008548-$ | US- 5015086-$ | US- 5020150-$ | US- 5026151-$ | US- 5064410-$ | US- 5093576-$ | US- 50963103-$ | US- 5151600-$ | US- 5161250-$ | US- 5172256-$ | US- 5264877-$ | US- 52756503-$ | US- 5306917-$ | US- 5353378-$ | US-					

		5359444-$ | US- 5367345-$ | US- 5379464-$ | US- 5382986-$ | US- 5394005-$ | US- 5452026-$ | US- 5452480-$ | US- 5455637-$ | US- 5455640-$ | US- 5457751-$ | US- 5463428-$ | US- 5500532-$ | US- 5510961-$ | US- 5513384-$ | US- 5533130-$ | US- 5581090-$ | US- 5585871-$ | US- 56279804-$ | US- 5634201-$ | US- 5671035-$ | US- 5673692-$ | US- 5694475-$ | US- 5715323-$ | US- 58316904-$ | US- 5835185-$ | US- 5900720-$ | US- 5903395-$ | US- 59204504-$ | US- 5923398-$ | US- 5941837-$ | US- 5946071-$ | US- 5949516-$ | US- 5963294-$ | US- 5966746-$ | US- 5988812-$ | US- 5991085-$ | US- 5992996-$ | US- 6010216-$ | US- 6013919-$ | US- 6028627-$ | US- 6046455-$ | US- 60519104-$).DID.					
L859	369	(US-6060321-$ | US- 6061580-$ | US- 6091832-$ | US- 6115177-$ | US- 6132681-$ | US- 6154552-$ | US- 6176576-$ | US- 61810704-$ | US- 6199550-$ | US- 62023804-$ | US- 6225897-$ | US- 6231181-$ | US- 6236969-$ | US- 6259367-$ | US- 6270466-$ | US- 6292213-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 10:03 AM

		6292685-$ | US- 6301367-$ | US- 6343858-$ | US- 6409335-$ | US- 6409338-$ | US- 6431705-$ | US- 6474816-$ | US- 64782605-$ | US- 64783605-$ | US- 6511175-$ | US- 6513532-$ | US- 6517203-$ | US- 6539336-$ | US- 6542081-$ | US- 6546101-$ | US- 6554444-$ | US- 6582075-$ | US- 6619799-$ | US- 6629076-$ | US- 6686843-$ | US- 6729726-$ | US- 6736759-$ | US- 6764194-$ | US- 6769767-$ | US- 6788309-$ | US- 6792401-$ | US- 6798391-$ | US- 6824265-$ | US- 6840908-$ | US- 6853303-$ | US- 6857741-$ | US- 6871951-$ | US- 6879930-$ | US- 6898550-$ | US- 6899585-$ | US- 6912386-$ | US- 6932090-$ | US- 6947219-$ | US- 6974226-$ | US- 7013009-$ | US- 7023594-$ | US- 7030902-$ | US- 7031667-$ | US- 7033025-$ | US- 7044615-$ | US- 7048370-$ | US- 7059717-$ | US- 7079876-$ | US- 7148879-$ | US- 7150526-$ | US- 7192136-$ | US- 7255437-$ | US- 7265358-$ | US- 7274292-$ | US- 7278734-$ | US- 7289767-$ | US- 7312699-$ | US- 7313246-$ | US-				

		7319780-$ | US- 7376238-$ | US- 7380936-$ | US- 7405801-$ | US- 7438409-$ | US- 7438410-$ | US- 7452067-$ | US- 7500746-$ | US- 7500747-$ | US- 7512414-$ | US- 7521623-$ | US- 7543934-$ | US- 7543938-$ | US- 7547101-$ | US- 7581833-$ | US- 7604348-$ | US- 7643895-$ | US- 7648236-$ | US- 7677723-$ | US- 7740353-$ | US- 7760898-$ | US- 7792552-$ | US- 7798638-$ | US- 7806525-$ | US- 7818142-$ | US- 7834759-$ | US- 7922321-$ | US- 8073984-$ | US- 8095799-$ | US- 8109629-$ | US- 8142015-$ | US- 8182267-$ | US- 8184067-$ | US- 8243973-$ | US- 8328420-$ | US- 8337013-$ | US- 8421851-$ | US- 8430507-$ | US- 8465151-$ | US- 8482488-$ | US- 8485661-$ | US- 8508851-$ | US- 8558759-$ | US- 8593795-$ | US- 8668334-$ | US- 8766747-$ | US- 8767306-$ | US- 8778022-$ | US- 8801174-$ | US- 8823740-$ | US- 8832233-$ | US- 8838708-$ | US- 8884845-$ | US- 8905541-$ | US- 8907867-$ | US- 8908894-$ | US- 8931896-$ | US- 8941560-$ | US-					

		8944590-$ | US- 8952869-$ | US- 8957835-$ | US- 8979259-$ | US- 9024843-$ | US- 9081212-$ | US- 9091851-$ | US- 9097890-$ | US- 9097891-$ | US- 9116545-$ | US- 9128281-$ | US- 9128522-$ | US- 9129295-$ | US- 9134534-$ | US- 9137309-$ | US- 9141194-$ | US- 9143848-$ | US- 9158116-$ | US- 9182596-$ | US- 9201512-$ | US- 9223134-$ | US- 9229227-$ | US- 9230501-$ | US- 9256071-$ | US- 9277334-$ | US- 9285589-$ | US- 9298007-$ | US- 9299194-$ | US- 9341843-$ | US- 9349280-$ | US- 9366862-$ | US- 9400390-$ | US- 9401540-$ | US- 9405135-$ | US- 9405892-$ | US- 9423842-$ | US- 9423870-$ | US- 9494800-$ | US- 9529197-$ | US- 9529199-$ | US- 9568746-$ | US- 9582071-$ | US- 9589482-$ | US- 9594433-$ | US- 9600079-$ | US- 9651787-$ | US- 9672210-$ | US- 9684172-$ | US- 9684374-$ | US- 9690121-$ | US- 9715112-$ | US- 9715774-$ | US- 9730647-$ | US- 9740280-$ | US- 9753288-$ | US- 9759917-$ | US- 9766463-$ | US- 9781408-$ | US-						

		9800990-$ | US-9829707-$ | US-9836122-$ | US-9841599-$ | US-9857590-$).DID.					
L860	355	(US-0000733-$ | US-0001827-$ | US-0003803-$ | US-0005230-$ | US-0017997-$ | US-0018274-$ | US-0021407-$ | US-0022690-$ | US-0023158-$ | US-0028309-$ | US-0029582-$ | US-0030442-$ | US-0032449-$ | US-0033061-$ | US-0034478-$ | US-0035830-$ | US-0046887-$ | US-0050668-$ | US-0050754-$ | US-0055888-$ | US-0059159-$ | US-0059212-$ | US-0061579-$ | US-0062046-$ | US-0062338-$ | US-0063378-$ | US-0065257-$ | US-0067580-$ | US-0067585-$ | US-0068057-$ | US-0068117-$ | US-0068559-$ | US-0072828-$ | US-0073375-$ | US-0074721-$ | US-0078274-$ | US-0079356-$ | US-0081982-$ | US-0083591-$ | US-0084990-$ | US-0085245-$ | US-0088365-$ | US-0089639-$ | US-0090103-$ | US-0096078-$ | US-0098192-$ | US-0098877-$ | US-0100384-$ | US-0101568-$ | US-0102734-$ | US-0107822-$ | US-0109491-$ | US-0109600-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 10:03 AM

		0110368-$ | US- 0128737-$ | US- 0131575-$ | US- 0132382-$ | US- 0132913-$ | US- 0133885-$ | US- 0140899-$ | US- 0141233-$ | US- 0144854-$ | US- 0146829-$ | US- 0147215-$ | US- 0150986-$ | US- 0151175-$ | US- 0151179-$ | US- 0156012-$ | US- 0156128-$ | US- 0157649-$ | US- 0158506-$ | US- 0159023-$ | US- 0160571-$ | US- 0160572-$ | US- 0160573-$ | US- 0164122-$ | US- 0176902-$ | US- 0186330-$ | US- 0187990-$ | US- 0197002-$ | US- 0197961-$ | US- 0198293-$ | US- 0200927-$ | US- 0201440-$ | US- 0201585-$ | US- 0208531-$ | US- 0213026-$ | US- 0214630-$ | US- 0218684-$ | US- 0226978-$ | US- 0227219-$ | US- 0230596-$ | US- 0230988-$ | US- 0238194-$ | US- 0239502-$ | US- 0241976-$ | US- 0245754-$ | US- 0246075-$ | US- 0248717-$ | US- 0248718-$ | US- 0248719-$ | US- 0251661-$ | US- 0253590-$ | US- 0262392-$ | US- 0264752-$ | US- 0268008-$ | US- 0268013-$ | US- 0268017-$ | US- 0270663-$ | US- 0271065-$ | US- 0271116-$ | US-					

		0271387-$ | US- 0273365-$ | US- 0278678-$ | US- 0279584-$ | US- 0296044-$ | US- 0296045-$ | US- 0302992-$ | US- 0308089-$ | US- 0309426-$ | US- 0361185-$ | US- 1255265-$ | US- 1917745-$ | US- 20010005230-$ | US- 20010028309-$ | US- 20010050754-$ | US- 20020017997-$ | US- 20020021407-$ | US- 20020081982-$ | US- 20020084990-$ | US- 20020089639-$ | US- 20020090103-$ | US- 20020098877-$ | US- 20020101568-$ | US- 20020109600-$ | US- 20020140899-$ | US- 20020159023-$ | US- 20020197961-$ | US- 20030018274-$ | US- 20030022690-$ | US- 20030032449-$ | US- 20030062046-$ | US- 20030065257-$ | US- 20030067585-$ | US- 20030068057-$ | US- 20030083591-$ | US- 20030214630-$ | US- 20030226978-$ | US- 20040000733-$ | US- 20040029582-$ | US- 20040059212-$ | US- 20040063378-$ | US- 20040096078-$ | US- 20040100384-$ | US- 20040128737-$ | US- 20040150986-$ | US- 20040156012-$ | US- 20040157649-$ | US- 20040160571-$ | US- 20040160572-$ | US- 20040160573-$ | US- 20040197002-$ | US- 20040227219-$ | US- 20050067580-$ | US- 20050078274-$ | US- 20050088365-$ | US- 20050201585-$ | US- 20050213026-$ | US- 20050230596-$ | US-					

		20050238194-$ | US-20050239502-$ | US-20050248717-$ | US-20050248718-$ | US-20050248719-$ | US-20050264752-$ | US-20060001827-$ | US-20060003803-$ | US-20060023158-$ | US-20060034478-$ | US-20060107822-$).DID.					
L861	354	(US-20060132382-$ | US-20070030442-$ | US-20070035830-$ | US-20070046887-$ | US-20070055888-$ | US-20070098192-$ | US-20070109491-$ | US-20070186330-$ | US-20070200927-$ | US-20070208531-$ | US-20070270663-$ | US-20070271065-$ | US-20070271116-$ | US-20070271387-$ | US-20070279584-$ | US-20080062338-$ | US-20080068559-$ | US-20080144854-$ | US-20080151175-$ | US-20080151179-$ | US-20080158506-$ | US-20080218684-$ | US-20080262392-$ | US-20080278678-$ | US-20090059159-$ | US-20090073375-$ | US-20090141233-$ | US-20090147215-$ | US-20090156128-$ | US-20090251661-$ | US-20090296044-$ | US-20100061579-$ | US-20100079356-$ | US-20100110368-$ | US-20100245754-$ | US-20100296045-$ | US-20100309426-$ | US-20110102734-$ | US-20110164122-$ | US-20110187990-$ | US-20110241976-$ | US-20110273365-$ | US-20120033061-$ | US-20120050668-$ | US-20120133885-$ | US-20130072828-$ | US-20130201440-$ |	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 10:03 AM

		US-20130308089-$ | US-20140132913-$ | US-20140176902-$ | US-20140198293-$ | US-20140268008-$ | US-20140268013-$ | US-20140268017-$ | US-20140361185-$ | US-20150085245-$ | US-20150230988-$ | US-20150253590-$ | US-20160246075-$ | US-20160302992-$ | US-20170068117-$ | US-20170074721-$ | US-20170131575-$ | US-20170146829-$ | US-2249572-$ | US-2638532-$ | US-2794085-$ | US-2818511-$ | US-2830132-$ | US-2874230-$ | US-2904670-$ | US-3060308-$ | US-3597054-$ | US-3710115-$ | US-3858001-$ | US-3883701-$ | US-4165487-$ | US-4254451-$ | US-4283127-$ | US-4322585-$ | US-4348664-$ | US-4389217-$ | US-4526473-$ | US-4535244-$ | US-4608492-$ | US-4683587-$ | US-4751691-$ | US-4757714-$ | US-4773095-$ | US-4806011-$ | US-4822160-$ | US-4822161-$ | US-4851686-$ | US-4856086-$ | US-4859047-$ | US-4882769-$ | US-4904078-$ | US-4942629-$ | US-4962469-$ | US-4967268-$ | US-4985632-$ | US-5008548-$ | US-5015086-$ | US-5020150-$ | US-5026151-$ | US-						

		5036311-$ | US- 5050150-$ | US- 5064410-$ | US- 5093576-$ | US- 5106179-$ | US- 5148023-$ | US- 5151600-$ | US- 5161250-$ | US- 5172256-$ | US- 5264877-$ | US- 5306917-$ | US- 5353378-$ | US- 5359370-$ | US- 5359444-$ | US- 5367345-$ | US- 5379464-$ | US- 5382986-$ | US- 5394005-$ | US- 5452026-$ | US- 5452480-$ | US- 5455637-$ | US- 5455640-$ | US- 5457751-$ | US- 5463428-$ | US- 5500532-$ | US- 5510961-$ | US- 5513384-$ | US- 5533130-$ | US- 5541641-$ | US- 5581090-$ | US- 5585871-$ | US- 5589398-$ | US- 5590417-$ | US- 5606743-$ | US- 5608808-$ | US- 5634201-$ | US- 5671035-$ | US- 5686727-$ | US- 5694475-$ | US- 5715323-$ | US- 5737436-$ | US- 5818381-$ | US- 5835185-$ | US- 5900720-$ | US- 5903395-$ | US- 5941837-$ | US- 5946071-$ | US- 5949516-$ | US- 5966746-$ | US- 5980037-$ | US- 5988812-$ | US- 5991085-$ | US- 5992996-$ | US- 5995592-$ | US- 6010216-$ | US- 6013919-$ | US- 6028627-$ | US- 6046455-$ | US-					

		6060321-$ | US- 6061580-$ | US- 6091546-$ | US- 6091832-$ | US- 6115177-$ | US- 6132681-$ | US- 6145983-$ | US- 6154552-$ | US- 6176576-$ | US- 6225897-$ | US- 6231181-$ | US- 6236969-$ | US- 6243578-$ | US- 6259367-$ | US- 6270466-$ | US- 6292213-$).DID.					
L862	183	(US-6292685-$ | US- 6301367-$ | US- 6307526-$ | US- 6343858-$ | US- 6349001-$ | US- 6349422-$ | US- 6409335-$ | US- 6409338-$ | US- 6426719-$ | US- 6431705-$ | US- 6474816-$ | US- 6478736-$ | US- 6506142-$ | US- 6511175-$ | US- 6513532-$ | US- 6517203-$ | US- 6539336-$ | US- 6542081-$ | US- 6546101-$ | US- 6554763-$ | US- 6582075-$ | US- 6619799-$ | US- 6629076-$ | US- 6729726-$ | US- 6736759-$ | US- 6764194-$ | US- 6769767-$ | US- 6788309-$ | US- 6792401-$ | US- 6824265-$ | US- 6871951-$ | US- 6879930-$ | US- 6912386-$ | US- 6929365-$ | US- 6932090-$ | US- 6947219-$ | US- 7004582-$ | US- 7013009-$ | US- 7030902-$ | US- 7031667-$ | US- 7033025-$ | US- 7059717-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 10:03 AM

		7073905-$ | US- 7079876-$ | US- 7123215-$ | US- 7192136-$ | US- 7255437-$ | US- 7265358-$ | US- 7274292-$ | US- 7289767-$ | US- 7312699-$ | US- 7331666-$ | US- 7376238-$ | US- 7380936-$ | US- 7401918-$ | US- 7405801-$ | US- 7429965-$ | US- 7438409-$ | US- 7438410-$ | US- 7445332-$ | US- 7481531-$ | US- 7500746-$ | US- 7500747-$ | US- 7512414-$ | US- 7527374-$ | US- 7543934-$ | US- 7581833-$ | US- 7621634-$ | US- 7648236-$ | US- 7677723-$ | US- 7760898-$ | US- 7771046-$ | US- 7792552-$ | US- 7806525-$ | US- 7922321-$ | US- 7976159-$ | US- 8109629-$ | US- 8142015-$ | US- 8337013-$ | US- 8430507-$ | US- 8434863-$ | US- 8465151-$ | US- 8485661-$ | US- 8500271-$ | US- 8770742-$ | US- 8905542-$ | US- 9033493-$ | US- 9244292-$ | US- 9405135-$ | US- 9488520-$ | US- 9547184-$ | US- 9690121-$ | US- D369167-$).DID.				
L864	1167	858 859 860 861 862	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2022/10/27 10:04 AM

			IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L865	76	864 AND 689	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 10:05 AM
L866	37	864 AND 693	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 10:06 AM
L867	4	864 AND 694	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 10:06 AM

L868	301	(US-1255265-$ | US-1917745-$ | US-10042186-$ | US-10060790-$ | US-10061144-$ | US-10310296-$ | US-10345625-$ | US-10359311-$ | US-10539459-$ | US-10624790-$ | US-10777048-$ | US-11042045-$ | US-2249572-$ | US-2638532-$ | US-2794085-$ | US-2818511-$ | US-2830132-$ | US-2874230-$ | US-2904670-$ | US-20010005230-$ | US-20010028309-$ | US-20010050754-$ | US-20020017997-$ | US-20020021407-$ | US-20020081982-$ | US-20020084990-$ | US-20020090103-$ | US-20020098877-$ | US-20020101568-$ | US-20020109600-$ | US-20020140899-$ | US-20020159023-$ | US-20020197961-$ | US-20030018274-$ | US-20030022690-$ | US-20030032449-$ | US-20030062046-$ | US-20030065257-$ | US-20030067585-$ | US-20030068057-$ | US-20030083591-$ | US-20030214630-$ | US-20030226978-$ | US-20030231293-$ | US-20040000733-$ | US-20040029582-$ | US-20040059212-$ | US-20040063378-$ | US-20040096078-$ | US-20040100384-$ | US-20040101178-$ | US-20040128737-$ | US-20040150986-$ | US-20040156012-$ | US-20040157649-$ | US-20040160571-$ | US-20040160572-$ | US-20040160573-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 11:08 AM

		20040197002-$ | US- 20040227219-$ | US- 20050067580-$ | US- 20050078274-$ | US- 20050088365-$ | US- 20050201585-$ | US- 20050213026-$ | US- 20050230596-$ | US- 20050238194-$ | US- 20050239502-$ | US- 20050248717-$ | US- 20050248718-$ | US- 20050248719-$ | US- 20050264752-$ | US- 20060001827-$ | US- 20060003803-$ | US- 20060023158-$ | US- 20060034478-$ | US- 20060107822-$ | US- 20060132382-$ | US- 20070030442-$ | US- 20070035830-$ | US- 20070046887-$ | US- 20070055888-$ | US- 20070098192-$ | US- 20070109491-$ | US- 20070186330-$ | US- 20070200927-$ | US- 20070208531-$ | US- 20070248238-$ | US- 20070270663-$ | US- 20070271065-$ | US- 20070271116-$ | US- 20070271387-$ | US- 20070279584-$ | US- 20080062338-$ | US- 20080068559-$ | US- 20080100792-$ | US- 20080144854-$ | US- 20080151175-$ | US- 20080151179-$ | US- 20080158506-$ | US- 20080218684-$ | US- 20080262392-$ | US- 20080278678-$ | US- 20090059159-$ | US- 20090059381-$ | US- 20090073375-$ | US- 20090141233-$ | US- 20090147215-$ | US- 20090156128-$ | US- 20090251660-$ | US- 20090251661-$ | US- 20090296044-$ | US- 20100061579-$ | US- 20100079356-$ | US- 20100110368-$ | US- 20100245754-$ | US-					

		20100296045-$ | US-20100309426-$ | US-20110102734-$ | US-20110164122-$ | US-20110187990-$ | US-20110241976-$ | US-20110273365-$ | US-20120033061-$ | US-20120050668-$ | US-20120133885-$ | US-20120176580-$ | US-20130072828-$ | US-20130077175-$ | US-20130143519-$ | US-20130201440-$ | US-20130308089-$ | US-20140132913-$ | US-20140176902-$ | US-20140198293-$ | US-20140268008-$ | US-20140268013-$ | US-20140268017-$ | US-20140361185-$ | US-20150085245-$ | US-20150230988-$ | US-20150253590-$ | US-20160246075-$ | US-20160302992-$ | US-20170068117-$ | US-20170074721-$ | US-20170090219-$ | US-20170131575-$ | US-20170146829-$ | US-20170303187-$ | US-20180314079-$ | US-20180335650-$ | US-20180348050-$ | US-20190033623-$ | US-20190187492-$ | US-20190272800-$ | US-20190278110-$ | US-20190285913-$).DID.					
L869	381	(US-20190310132-$ | US-20190318589-$ | US-20190387351-$ | US-20200012127-$ | US-20200218094-$ | US-20200364992-$ | US-3060308-$ | US-3597054-$ | US-3710115-$ | US-3858001-$ | US-3883701-$ | US-4165487-$ | US-4254451-$ | US-4283127-$ | US-4322585-$ | US-4348664-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 11:08 AM

		4389217-$ | US- 4526473-$ | US- 4535244-$ | US- 4608492-$ | US- 4683587-$ | US- 4751691-$ | US- 4757714-$ | US- 4773095-$ | US- 4806011-$ | US- 4822160-$ | US- 4822161-$ | US- 4851686-$ | US- 4856086-$ | US- 4859047-$ | US- 4882769-$ | US- 4904078-$ | US- 4942629-$ | US- 4962469-$ | US- 4967268-$ | US- 4985632-$ | US- 5008548-$ | US- 5015086-$ | US- 5020150-$ | US- 5026151-$ | US- 5036311-$ | US- 5050150-$ | US- 5064410-$ | US- 5093576-$ | US- 5106179-$ | US- 5148023-$ | US- 5151600-$ | US- 5161250-$ | US- 5172256-$ | US- 5264877-$ | US- 5306917-$ | US- 5353378-$ | US- 5359370-$ | US- 5359444-$ | US- 5367345-$ | US- 5379464-$ | US- 5382986-$ | US- 5394005-$ | US- 5452026-$ | US- 5452480-$ | US- 5455637-$ | US- 5455640-$ | US- 5457751-$ | US- 5463428-$ | US- 5500532-$ | US- 5510961-$ | US- 5513384-$ | US- 5533130-$ | US- 5541641-$ | US- 5581090-$ | US- 5585871-$ | US- 5589398-$ | US- 5590417-$ | US- 5606743-$ | US-					

		5608808-$ | US- 5634201-$ | US- 5671035-$ | US- 5686727-$ | US- 5694475-$ | US- 5715323-$ | US- 5737436-$ | US- 5818381-$ | US- 5835185-$ | US- 5900720-$ | US- 5903395-$ | US- 5923398-$ | US- 5941837-$ | US- 5946071-$ | US- 5949516-$ | US- 5966746-$ | US- 5980037-$ | US- 5988812-$ | US- 5991085-$ | US- 5992996-$ | US- 5995592-$ | US- 6010216-$ | US- 6013919-$ | US- 6028627-$ | US- 6046455-$ | US- 6060321-$ | US- 6061580-$ | US- 6091546-$ | US- 6091832-$ | US- 6115177-$ | US- 6132681-$ | US- 6145983-$ | US- 6154552-$ | US- 6176576-$ | US- 6225897-$ | US- 6231181-$ | US- 6236969-$ | US- 6243578-$ | US- 6259367-$ | US- 6270466-$ | US- 6292213-$ | US- 6292685-$ | US- 6301367-$ | US- 6307526-$ | US- 6343858-$ | US- 6349001-$ | US- 6349422-$ | US- 6409335-$ | US- 6409338-$ | US- 6426719-$ | US- 6431705-$ | US- 6474816-$ | US- 6478736-$ | US- 6506142-$ | US- 6511175-$ | US- 6513532-$ | US- 6517203-$ | US- 6539336-$ | US-					

		6542081-$ | US- 6546101-$ | US- 6554763-$ | US- 6582075-$ | US- 6619799-$ | US- 6629076-$ | US- 6729726-$ | US- 6736759-$ | US- 6764194-$ | US- 6769767-$ | US- 6788309-$ | US- 6792401-$ | US- 6816314-$ | US- 6824265-$ | US- 6857741-$ | US- 6871951-$ | US- 6879930-$ | US- 6912386-$ | US- 6929365-$ | US- 6932090-$ | US- 6947219-$ | US- 7004582-$ | US- 7013009-$ | US- 7023594-$ | US- 7030902-$ | US- 7031667-$ | US- 7033025-$ | US- 7059717-$ | US- 7073905-$ | US- 7079876-$ | US- 7123215-$ | US- 7192136-$ | US- 7255437-$ | US- 7265358-$ | US- 7274292-$ | US- 7289767-$ | US- 7312699-$ | US- 7331666-$ | US- 7376238-$ | US- 7380936-$ | US- 7401918-$ | US- 7405801-$ | US- 7429965-$ | US- 7438409-$ | US- 7438410-$ | US- 7445332-$ | US- 7481531-$ | US- 7500746-$ | US- 7500747-$ | US- 7512414-$ | US- 7517083-$ | US- 7527374-$ | US- 7543934-$ | US- 7581833-$ | US- 7621634-$ | US- 7648236-$ | US- 7677723-$ | US- 7760898-$ | US-					

		7771046-$ | US-7792552-$ | US-7806525-$ | US-7922321-$).DID.					
L870	211	(US-3192826-$ | US-3216308-$ | US-3229580-$ | US-3524710-$ | US-3610825-$ | US-3787109-$ | US-3885095-$ | US-3915548-$ | US-3923370-$ | US-3936605-$ | US-3940204-$ | US-4052073-$ | US-4082432-$ | US-4195915-$ | US-4218111-$ | US-4447128-$ | US-4550984-$ | US-4649434-$ | US-4664475-$ | US-4665385-$ | US-4722601-$ | US-4751691-$ | US-4753514-$ | US-4799765-$ | US-4806001-$ | US-4806011-$ | US-4818048-$ | US-4826287-$ | US-4852988-$ | US-4853306-$ | US-4867551-$ | US-4869575-$ | US-4884137-$ | US-4961626-$ | US-4968117-$ | US-4973132-$ | US-4973139-$ | US-4988183-$ | US-5003300-$ | US-5013134-$ | US-5028119-$ | US-5044709-$ | US-5050962-$ | US-5053755-$ | US-5129716-$ | US-5138470-$ | US-5162828-$ | US-5212471-$ | US-5214425-$ | US-5231379-$ | US-5281957-$ | US-5281960-$ | US-5309169-$ | US-5320538-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 11:08 AM

		5325386-$ | US- 5334991-$ | US- 5348477-$ | US- 5359669-$ | US- 5367345-$ | US- 5369415-$ | US- 5381267-$ | US- 5384654-$ | US- 5392158-$ | US- 5416876-$ | US- 5446507-$ | US- 5455591-$ | US- 5459612-$ | US- 5469185-$ | US- 5491510-$ | US- 5506728-$ | US- 5519410-$ | US- 5537253-$ | US- 5539578-$ | US- 5576887-$ | US- 5579148-$ | US- 5583590-$ | US- 5585871-$ | US- 5589846-$ | US- 5596451-$ | US- 5606743-$ | US- 5610765-$ | US- 5626410-$ | US- 5629790-$ | US- 5648789-$ | US- 5653751-$ | US- 5654827-$ | US- 5654828-$ | US- 5671037-$ | US- 5673139-$ | US- 5682173-$ | US- 5699194-$ | US- 5712649-$ | US- 5717479-$ | US- 5719588-$ | US- 5744788-$ | US- 5751493-$ | US- 5808589-$ | US- 5815326-$ | US- 5886822-$ | US- 5943171-$ | US- 5973845-$ | US- 5991103-$ | US- 6005720-$ | US- 6023372-$ | US- 6081304-$ | US- 6091546-$ | US- D195365-$ | US- RE28847-$).DID.				
L871	383	(US-10042186-$ | US- 10060790-$ | US- 10061144-$ | US- 10310296-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2022/10/27 11:08 AM

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		10345625-$ | US- 10359311-$ | US- 10359459-$ | US- 10624790-$ | US- 10777048-$ | US- 11042045-$ | US- 1255265-$ | US- 1917745-$ | US- 2249572-$ | US- 2638532-$ | US- 2794085-$ | US- 2818511-$ | US- 2830132-$ | US- 2874230-$ | US- 2904670-$ | US- 3060308-$ | US- 3597054-$ | US- 3710115-$ | US- 3858001-$ | US- 3883701-$ | US- 4165487-$ | US- 4254451-$ | US- 4283127-$ | US- 4322585-$ | US- 4348664-$ | US- 4389217-$ | US- 4526473-$ | US- 4535244-$ | US- 4608492-$ | US- 4683587-$ | US- 4751691-$ | US- 4757714-$ | US- 4773095-$ | US- 4806011-$ | US- 4822160-$ | US- 4822161-$ | US- 4851686-$ | US- 4856086-$ | US- 4859047-$ | US- 4882769-$ | US- 4904078-$ | US- 4942629-$ | US- 4962469-$ | US- 4967268-$ | US- 4985632-$ | US- 5008548-$ | US- 5015086-$ | US- 5020150-$ | US- 5026151-$ | US- 5036311-$ | US- 5050150-$ | US- 5064410-$ | US- 5093576-$ | US- 5106179-$ | US- 5148023-$ | US- 5151600-$ | US- 5161250-$ | US- 5172256-$ | US-	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

		5264877-$ | US- 5306917-$ | US- 5353378-$ | US- 5359370-$ | US- 5359444-$ | US- 5367345-$ | US- 5379464-$ | US- 5382986-$ | US- 5394005-$ | US- 5452026-$ | US- 5452480-$ | US- 5455637-$ | US- 5455640-$ | US- 5457751-$ | US- 5463428-$ | US- 5500532-$ | US- 5510961-$ | US- 5513384-$ | US- 5533130-$ | US- 5541641-$ | US- 5581090-$ | US- 5585871-$ | US- 5589398-$ | US- 5590417-$ | US- 5606743-$ | US- 5608808-$ | US- 5634201-$ | US- 5671035-$ | US- 5686727-$ | US- 5694475-$ | US- 5715323-$ | US- 5737436-$ | US- 5818381-$ | US- 5835185-$ | US- 5900720-$ | US- 5903395-$ | US- 5923398-$ | US- 5941837-$ | US- 5946071-$ | US- 5949516-$ | US- 5966746-$ | US- 5980037-$ | US- 5988812-$ | US- 5991085-$ | US- 5992996-$ | US- 5995592-$ | US- 6010216-$ | US- 6013919-$ | US- 6028627-$ | US- 6046455-$ | US- 6060321-$ | US- 6061580-$ | US- 6091546-$ | US- 6091832-$ | US- 6115177-$ | US- 6132681-$ | US- 6145983-$ | US- 6154552-$ | US-						

		6176576-$ | US- 6225897-$ | US- 6231181-$ | US- 6236969-$ | US- 6243578-$ | US- 6259367-$ | US- 6270466-$ | US- 6292213-$ | US- 6292685-$ | US- 6301367-$ | US- 6307526-$ | US- 6343858-$ | US- 6349001-$ | US- 6349422-$ | US- 6409335-$ | US- 6409338-$ | US- 6426719-$ | US- 6431705-$ | US- 6474816-$ | US- 6478736-$ | US- 6506142-$ | US- 6511175-$ | US- 6513532-$ | US- 6517203-$ | US- 6539336-$ | US- 6542081-$ | US- 6546101-$ | US- 6554763-$ | US- 6582075-$ | US- 6619799-$ | US- 6629076-$ | US- 6729726-$ | US- 6736759-$ | US- 6764194-$ | US- 6769767-$ | US- 6788309-$ | US- 6792401-$ | US- 6816314-$ | US- 6824265-$ | US- 6857741-$ | US- 6871951-$ | US- 6879930-$ | US- 6912386-$ | US- 6929365-$ | US- 6932090-$ | US- 6947219-$ | US- 7004582-$ | US- 7013009-$ | US- 7023594-$ | US- 7030902-$ | US- 7031667-$ | US- 7033025-$ | US- 7059717-$ | US- 7073905-$ | US- 7079876-$ | US- 7123215-$ | US- 7192136-$ | US- 7255437-$ | US-					

		7265358-$ | US-7274292-$ | US-7289767-$ | US-7312699-$ | US-7331666-$ | US-7376238-$ | US-7380936-$ | US-7401918-$ | US-7405801-$ | US-7429965-$ | US-7438409-$ | US-7438410-$ | US-7445332-$ | US-7481531-$ | US-7500746-$ | US-7500747-$ | US-7512414-$).DID.					
L872	850	868 869 870 871	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 11:08 AM
L873	41	872 AND 689	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 11:08 AM
L874	19	872 AND 693	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2022/10/27 11:09 AM

			MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L875	4	872 AND 694	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 11:09 AM
L876	55	"6911172"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 11:38 AM
L877	542	"6349001"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 11:38 AM
L878	133	"7150526"	(US-PGPUB; USPAT;	OR	ON	ON	2022/10/27

			USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:38 AM
L879	200	"7192136"	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 11:38 AM
L880	146	"7922321"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 11:38 AM
L881	283	(US-20010005230-$ | US-20010028309-$ | US-20010050754-$ | US-20020017997-$ | US-20020021407-$ | US-20020081982-$ | US-20020084990-$ | US-20020089639-$ | US-20020090103-$ | US-20020098877-$ | US-20020101568-$ | US-20020109600-$ | US-20020140899-$ | US-20020159023-$ | US-20020197961-$ | US-20030018274-$ | US-20030022690-$ | US-20030032449-$ | US-20030062046-$ | US-20030065257-$ | US-20030067585-$ | US-20030068057-$ | US-20030083591-$ | US-20030214630-$ |	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:12 PM

		US-20030226978-$ | US-20030231293-$ | US-20040000733-$ | US-20040029582-$ | US-20040059212-$ | US-20040063378-$ | US-20040096078-$ | US-20040100384-$ | US-20040101178-$ | US-20040128737-$ | US-20040150986-$ | US-20040156012-$ | US-20040157649-$ | US-20040160571-$ | US-20040160572-$ | US-20040160573-$ | US-20040197002-$ | US-20040227219-$ | US-20050067580-$ | US-20050078274-$ | US-20050088365-$ | US-20050201585-$ | US-20050213026-$ | US-20050230596-$ | US-20050238194-$ | US-20050239502-$ | US-20050248717-$ | US-20050248718-$ | US-20050248719-$ | US-20050264752-$ | US-20060001827-$ | US-20060003803-$ | US-20060023158-$ | US-20060034478-$ | US-20060107822-$ | US-20060132382-$ | US-20070030442-$ | US-20070035830-$ | US-20070046887-$ | US-20070055888-$ | US-20070098192-$ | US-20070109491-$ | US-20070186330-$ | US-20070200927-$ | US-20070208531-$ | US-20070248238-$ | US-20070270663-$ | US-20070271065-$ | US-20070271116-$ | US-20070271387-$ | US-20070279584-$ | US-20080062338-$ | US-20080068559-$ | US-20080100792-$ | US-20080144854-$ | US-20080151175-$ | US-20080151179-$ | US-20080158506-$ |				

		US-20080218684-$ | US-20080262392-$ | US-20080278678-$ | US-20090059159-$ | US-20090059381-$ | US-20090073375-$ | US-20090141233-$ | US-20090147215-$ | US-20090156128-$ | US-20090251660-$ | US-20090251661-$ | US-20090296044-$ | US-20100061579-$ | US-20100079356-$ | US-20100110368-$ | US-20100245754-$ | US-20100296045-$ | US-20100309426-$ | US-20110102734-$ | US-20110164122-$ | US-20110187990-$ | US-20110241976-$ | US-20110273365-$ | US-20120033061-$ | US-20120050668-$ | US-20120133885-$ | US-20120176580-$ | US-20130072828-$ | US-20130077175-$ | US-20130143519-$ | US-20130201440-$ | US-20130308089-$ | US-20140132913-$ | US-20140176902-$ | US-20140198293-$ | US-20140268008-$ | US-20140268013-$ | US-20140268017-$ | US-20140361185-$ | US-20150085245-$ | US-20150230988-$ | US-20150253590-$ | US-20160246075-$ | US-20160302992-$ | US-20170068117-$ | US-20170074721-$ | US-20170090219-$ | US-20170131575-$ | US-20170146829-$ | US-20170303187-$ | US-20180314079-$ | US-20180335650-$ | US-20180348050-$ | US-20190033623-$ | US-20190187492-$ | US-20190272800-$ | US-20190278110-$ | US-20190285913-$ |					

		US-20190310132-$ | US-20190318589-$ | US-20190387351-$ | US-20200218094-$ | US-20200364992-$).DID.					
L882	535	("197708" | "198608" | "198805" | "198909" | "99411" | "199511" | "199609" | "199709" | "199807" | "200011" | "200101" | "200102" | "200205" | "200208" | "200210" | "200302" | "200512" | "200907" | "1129988" | "6081194" | "681194" | "7312791" | "8237349" | "2107638").DID.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:12 PM
L883	156	(US-20020098877-$ | US-20020118825-$ | US-20020176330-$ | US-20030003969-$ | US-20030022690-$ | US-20030067585-$ | US-20030068057-$ | US-20040000733-$ | US-20040132509-$ | US-20040156012-$ | US-20040157649-$ | US-20040160572-$ | US-20040160573-$ | US-20040239874-$ | US-20050046789-$ | US-20050046790-$ | US-20050128431-$ | US-20050185815-$ | US-20060183427-$ | US-2424935-$ | US-2856466-$ | US-2882348-$ | US-2999136-$ | US-3104290-$ | US-3119903-$ | US-3495898-$ | US-3588384-$ | US-3665122-$ | US-3769663-$ | US-3883701-$ | US-4636048-$ | US-4683587-$ | US-4856086-$ | US-4882769-$ | US-4902120-$ | US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:12 PM

		4904078-$ | US- 5020150-$ | US- 5159639-$ | US- 5327178-$ | US- 5335285-$ | US- 5367345-$ | US- 5533130-$ | US- 5579400-$ | US- 5606743-$ | US- 5608808-$ | US- 5634201-$ | US- 5694475-$ | US- 5715323-$ | US- 5717479-$ | US- 5737436-$ | US- 5781272-$ | US- 5892564-$ | US- 5988812-$ | US- 6010216-$ | US- 6012812-$ | US- 6176576-$ | US- 6218958-$ | US- 6233344-$ | US- 6233345-$ | US- 6252970-$ | US- 6301050-$ | US- 6301367-$ | US- 6311155-$ | US- 6325507-$ | US- 6349001-$ | US- 6356392-$ | US- 6384982-$ | US- 6392798-$ | US- 6409338-$ | US- 6421031-$ | US- 6456721-$ | US- 6490362-$ | US- 6690807-$ | US- 6729726-$ | US- 6769767-$ | US- 6929365-$ | US- 6966647-$ | US- 7004582-$ | US- 7013009-$ | US- D207919-$ | US- D212863-$ | US- D418153-$ | US- D426845-$ | US- D435058-$ | US- D445416-$ | US- D462708-$ | US- RE35051-$).DID.					
L884	93	(US-20010035242-$ | US-20020072387-$ | US-20020193151-$ | US-20030036414-$ | US-20030040285-$ | US-20030042348-$ |	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2022/10/27 12:12 PM

		US-20030108217-$ | US-20030182003-$ | US-20040077382-$ | US-20040204165-$ | US-20050078274-$ | US-20050128431-$ | US-20050201585-$ | US-20050220316-$ | US-20050248717-$ | US-20050255883-$ | US-20050255898-$ | US-20060013410-$ | US-20060023158-$ | US-20060093178-$ | US-20060153409-$ | US-20060177086-$ | US-20060185062-$ | US-20060251283-$ | US-20070064969-$ | US-20090175482-$ | US-2249572-$ | US-3528734-$ | US-4456797-$ | US-4902120-$ | US-4942617-$ | US-5034995-$ | US-5164987-$ | US-5422957-$ | US-5608808-$ | US-5715323-$ | US-5737436-$ | US-5881160-$ | US-6095820-$ | US-6097822-$ | US-6176576-$ | US-6633770-$ | US-6643528-$ | US-6690808-$ | US-6920228-$ | US-7519192-$ | US-7702122-$ | US-D533539-$).DID.	HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L885	1029	881 882 883 884	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:13 PM

L886	32	885 AND 689	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:13 PM
L887	14	885 AND 693	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:13 PM
L888	5	885 AND 694	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:13 PM
L890	2	"20050278446"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL,	OR	ON	ON	2022/10/27 12:32 PM

			NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L891	12	"2005167902"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:32 PM
L892	3	"20040160573"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:32 PM
L893	3	"20050264752"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:32 PM
L894	11	"20040000733"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP,	OR	ON	ON	2022/10/27 12:32 PM

			AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L895	3	"20050201585"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:32 PM
L896	2	"20070248238"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/10/27 12:32 PM
L897	3	"20040156012"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO,	OR	ON	ON	2022/10/27 12:32 PM

			RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Web Search History

date, time	web site	search string
10/27/2022 8:44:25 AM	Google Images	electric eyeglasses
10/27/2022 8:44:25 AM	Google	electric eyeglasses
10/27/2022 8:44:45 AM	Google	virtual reality glasses
10/27/2022 8:44:54 AM	Google Images	virtual reality glasses
10/27/2022 8:45:38 AM	Google Images	smart glasses
10/27/2022 8:45:38 AM	Google	smart glasses
10/27/2022 8:46:01 AM	Google Images	Smart glasses with display
10/27/2022 8:46:01 AM	Google	Smart glasses with display
10/27/2022 8:46:30 AM	Google	smart glasses and earbuds
10/27/2022 8:46:47 AM	Google Images	smart glasses and earbuds
10/27/2022 8:49:50 AM	Google Scholar	(eyewear) (temple) (temples) (frame) (transceiver)
10/27/2022 8:49:50 AM	Google Patents	Keyword Group 1 [(eyewear) (temple) (temples) (frame) (transceiver)] Before Priority Date: priority:20010430
10/27/2022 8:50:29 AM	Google Scholar	(audio) (loop member) (individual) (wearable personal) (audio apparatus)
10/27/2022 8:50:29 AM	Google Patents	Keyword Group 1 [(audio) (loop member) (individual) (wearable personal) (audio apparatus)] Before Priority Date: priority:19960812
10/27/2022 8:50:30 AM	Google Scholar	audio loop member individual wearable personal audio apparatus

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date, time	web site	search string
10/27/2022 8:50:30 AM	Google Patents	Keyword Group 1 [audio] Keyword Group 2 [loop member] Keyword Group 3 [individual] Keyword Group 4 [wearable personal] Keyword Group 5 [audio apparatus] Before Priority Date: priority:19960812
10/27/2022 8:50:30 AM	Google Scholar	(speaker) (audio device) (audio) (wearable wireless) (wireless audio)
10/27/2022 8:50:41 AM	Google Patents	Keyword Group 1 [(speaker) (audio device) (audio) (wearable wireless) (wireless audio)] Before Priority Date: priority:20000602
10/27/2022 8:50:42 AM	Google Scholar	speaker audio device audio wearable wireless wireless audio
10/27/2022 8:50:42 AM	Google Patents	Keyword Group 1 [speaker] Keyword Group 2 [audio device] Keyword Group 3 [audio] Keyword Group 4 [wearable wireless] Keyword Group 5 [wireless audio] Before Priority Date: priority:20000602
10/27/2022 8:50:44 AM	Google Scholar	eyewear temple temples frame transceiver
10/27/2022 8:51:09 AM	Google Scholar	(eyeglass) (earphone) (support) (frame) (audio)
10/27/2022 8:51:09 AM	Google Patents	Keyword Group 1 [(eyeglass) (earphone) (support) (frame) (audio)] Before Priority Date: priority:20000602

date, time	web site	search string
10/27/2022 8:51:11 AM	Google Scholar	eyeglass earphone support frame audio
10/27/2022 8:51:11 AM	Google Patents	Keyword Group 1 [eyeglass] Keyword Group 2 [earphone] Keyword Group 3 [support] Keyword Group 4 [frame] Keyword Group 5 [audio] Before Priority Date: priority:20000602
10/27/2022 8:51:45 AM	Google Scholar	(eyeglass) (interface system) (camera) (audio) (integrated circuits)
10/27/2022 8:51:45 AM	Google Patents	Keyword Group 1 [(eyeglass) (interface system) (camera) (audio) (integrated circuits)] Before Priority Date: priority:19971030
10/27/2022 8:51:47 AM	Google Scholar	eyeglass interface system camera audio integrated circuits
10/27/2022 8:51:47 AM	Google Patents	Keyword Group 1 [eyeglass] Keyword Group 2 [interface system] Keyword Group 3 [camera] Keyword Group 4 [audio] Keyword Group 5 [integrated circuits] Before Priority Date: priority:19971030

date, time	web site	search string
10/27/2022 8:51:56 AM	Google Patents	Keyword Group 1 [eyewear] Keyword Group 2 [temple] Keyword Group 3 [temples] Keyword Group 4 [frame] Keyword Group 5 [transceiver] Before Priority Date: priority:20010430
10/27/2022 8:53:35 AM	Google Scholar	(eyewear) (temple) (product) (recited) (eyewear product)
10/27/2022 8:53:35 AM	Google Patents	Keyword Group 1 [(eyewear) (temple) (product) (recited) (eyewear product)] Before Priority Date: priority:20030415
10/27/2022 8:53:36 AM	Google Scholar	eyewear temple product recited eyewear product
10/27/2022 8:53:36 AM	Google Patents	Keyword Group 1 [eyewear] Keyword Group 2 [temple] Keyword Group 3 [product] Keyword Group 4 [recited] Keyword Group 5 [eyewear product] Before Priority Date: priority:20030415
10/27/2022 8:53:36 AM	Google Scholar	(eyewear) (recited) (temple) (frame) (user)
10/27/2022 8:53:46 AM	Google Scholar	(nose) (piece) (shield) (sunglasses) (pair)
10/27/2022 8:53:46 AM	Google Patents	Keyword Group 1 [(nose) (piece) (shield) (sunglasses) (pair)] Before Priority Date: priority:19910918

date, time	web site	search string
10/27/2022 8:53:47 AM	Google Scholar	nose piece shield sunglasses pair
10/27/2022 8:53:47 AM	Google Patents	**Keyword Group 1** [nose] **Keyword Group 2** [piece] **Keyword Group 3** [shield] **Keyword Group 4** [sunglasses] **Keyword Group 5** [pair] **Before** Priority Date: priority:19910918
10/27/2022 8:53:56 AM	Google Scholar	(lens) (glasses) (lens unit) (auxiliary) (lenses)
10/27/2022 8:53:56 AM	Google Patents	**Keyword Group 1** [(lens) (glasses) (lens unit) (auxiliary) (lenses)] **Before** Priority Date: priority:20020930
10/27/2022 8:53:58 AM	Google Scholar	lens glasses lens unit auxiliary lenses
10/27/2022 8:53:58 AM	Google Patents	**Keyword Group 1** [lens] **Keyword Group 2** [glasses] **Keyword Group 3** [lens unit] **Keyword Group 4** [auxiliary] **Keyword Group 5** [lenses] **Before** Priority Date: priority:20020930
10/27/2022 8:53:59 AM	Google Patents	**Keyword Group 1** [(eyewear) (recited) (temple) (frame) (user)] **Before** Priority Date: priority:20031009
10/27/2022 8:54:01 AM	Google Scholar	eyewear recited temple frame user

date, time	web site	search string
10/27/2022 8:54:01 AM	Google Patents	Keyword Group 1 [eyewear] Keyword Group 2 [recited] Keyword Group 3 [temple] Keyword Group 4 [frame] Keyword Group 5 [user] Before Priority Date: priority:20031009
10/27/2022 9:13:24 AM	Google Scholar	(temple) (tube) (solid) (cavities) (injection)
10/27/2022 9:13:24 AM	Google Patents	Keyword Group 1 [(temple) (tube) (solid) (cavities) (injection)] Before Priority Date: priority:19720922
10/27/2022 9:13:25 AM	Google Scholar	temple tube solid cavities injection
10/27/2022 9:13:25 AM	Google Patents	Keyword Group 1 [temple] Keyword Group 2 [tube] Keyword Group 3 [solid] Keyword Group 4 [cavities] Keyword Group 5 [injection] Before Priority Date: priority:19720922
10/27/2022 9:13:38 AM	Google Scholar	(mold) (rigid) (liquid resin) (resin system) (flexible)
10/27/2022 9:13:38 AM	Google Patents	Keyword Group 1 [(mold) (rigid) (liquid resin) (resin system) (flexible)] Before Priority Date: priority:19781027
10/27/2022 9:13:40 AM	Google Scholar	mold rigid liquid resin resin system flexible

date, time	web site	search string
10/27/2022 9:13:40 AM	Google Patents	Keyword Group 1 [mold] Keyword Group 2 [rigid] Keyword Group 3 [liquid resin] Keyword Group 4 [resin system] Keyword Group 5 [flexible] Before Priority Date: priority:19781027
10/27/2022 9:13:46 AM	Google Scholar	(temple) (swimmer) (temple pieces) (eyepieces) (pieces)
10/27/2022 9:13:46 AM	Google Patents	Keyword Group 1 [(temple) (swimmer) (temple pieces) (eyepieces) (pieces)] Before Priority Date: priority:19930818
10/27/2022 9:13:48 AM	Google Scholar	temple swimmer temple pieces eyepieces pieces
10/27/2022 9:13:48 AM	Google Patents	Keyword Group 1 [temple] Keyword Group 2 [swimmer] Keyword Group 3 [temple pieces] Keyword Group 4 [eyepieces] Keyword Group 5 [pieces] Before Priority Date: priority:19930818
10/27/2022 9:13:54 AM	Google Scholar	(connectors) (frame body) (lens) (end portions) (section)
10/27/2022 9:13:54 AM	Google Patents	Keyword Group 1 [(connectors) (frame body) (lens) (end portions) (section)] Before Priority Date: priority:19951113
10/27/2022 9:13:55 AM	Google Scholar	connectors frame body lens end portions section

date, time	web site	search string
10/27/2022 9:13:55 AM	Google Patents	Keyword Group 1 [connectors] Keyword Group 2 [frame body] Keyword Group 3 [lens] Keyword Group 4 [end portions] Keyword Group 5 [section] Before Priority Date: priority:19951113
10/27/2022 9:14:02 AM	Google Scholar	(frame) (temple) (hinge) (ear stem) (attached)
10/27/2022 9:14:02 AM	Google Patents	Keyword Group 1 [(frame) (temple) (hinge) (ear stem) (attached)] Before Priority Date: priority:19960311
10/27/2022 9:14:04 AM	Google Scholar	frame temple hinge ear stem attached
10/27/2022 9:14:04 AM	Google Patents	Keyword Group 1 [frame] Keyword Group 2 [temple] Keyword Group 3 [hinge] Keyword Group 4 [ear stem] Keyword Group 5 [attached] Before Priority Date: priority:19960311
10/27/2022 9:14:10 AM	Google Scholar	(wearer) (assembly) (speaker) (structured) (disposed)
10/27/2022 9:14:10 AM	Google Patents	Keyword Group 1 [(wearer) (assembly) (speaker) (structured) (disposed)] Before Priority Date: priority:19960906
10/27/2022 9:14:11 AM	Google Scholar	wearer assembly speaker structured disposed

date, time	web site	search string
10/27/2022 9:14:11 AM	Google Patents	**Keyword Group 1** [wearer] **Keyword Group 2** [assembly] **Keyword Group 3** [speaker] **Keyword Group 4** [structured] **Keyword Group 5** [disposed] **Before** Priority Date: priority:19960906
10/27/2022 9:14:25 AM	Google Scholar	(eyeglasses) (earpieces) (receiver portion) (transmitter) (radio frequency)
10/27/2022 9:14:25 AM	Google Patents	**Keyword Group 1** [(eyeglasses) (earpieces) (receiver portion) (transmitter) (radio frequency)] **Before** Priority Date: priority:19980615
10/27/2022 9:14:26 AM	Google Scholar	eyeglasses earpieces receiver portion transmitter radio frequency
10/27/2022 9:14:26 AM	Google Patents	**Keyword Group 1** [eyeglasses] **Keyword Group 2** [earpieces] **Keyword Group 3** [receiver portion] **Keyword Group 4** [transmitter] **Keyword Group 5** [radio frequency] **Before** Priority Date: priority:19980615
10/27/2022 9:14:35 AM	Google Scholar	(assembly) (speaker) (structured) (recited) (industrial safety)
10/27/2022 9:14:35 AM	Google Patents	**Keyword Group 1** [(assembly) (speaker) (structured) (recited) (industrial safety)] **Before** Priority Date: priority:19960906

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date, time	web site	search string
10/27/2022 9:14:36 AM	Google Scholar	assembly speaker structured recited industrial safety
10/27/2022 9:14:36 AM	Google Patents	Keyword Group 1 [assembly] Keyword Group 2 [speaker] Keyword Group 3 [structured] Keyword Group 4 [recited] Keyword Group 5 [industrial safety] Before Priority Date: priority:19960906
10/27/2022 9:14:44 AM	Google Scholar	(interface system) (eyeglass) (assembly) (audio) (lens)
10/27/2022 9:14:44 AM	Google Patents	Keyword Group 1 [(interface system) (eyeglass) (assembly) (audio) (lens)] Before Priority Date: priority:19971030
10/27/2022 9:14:46 AM	Google Scholar	interface system eyeglass assembly audio lens
10/27/2022 9:14:46 AM	Google Patents	Keyword Group 1 [interface system] Keyword Group 2 [eyeglass] Keyword Group 3 [assembly] Keyword Group 4 [audio] Keyword Group 5 [lens] Before Priority Date: priority:19971030
10/27/2022 9:30:37 AM	Google Scholar	(eyeglass) (bracket) (spectacles) (spectacle) (combined)
10/27/2022 9:30:37 AM	Google Patents	Keyword Group 1 [(eyeglass) (bracket) (spectacles) (spectacle) (combined)] Before Priority Date: priority:18850623

date, time	web site	search string
10/27/2022 9:30:39 AM	Google Scholar	eyeglass bracket spectacles spectacle combined
10/27/2022 9:30:39 AM	Google Patents	Keyword Group 1 [eyeglass] Keyword Group 2 [bracket] Keyword Group 3 [spectacles] Keyword Group 4 [spectacle] Keyword Group 5 [combined] Before Priority Date: priority:18850623
10/27/2022 9:30:46 AM	Google Scholar	(globes) (globe) (lighting device) (facially) (annular)
10/27/2022 9:30:46 AM	Google Patents	Keyword Group 1 [(globes) (globe) (lighting device) (facially) (annular)] Before Priority Date: priority:18990707
10/27/2022 9:30:48 AM	Google Scholar	globes globe lighting device facially annular
10/27/2022 9:30:48 AM	Google Patents	Keyword Group 1 [globes] Keyword Group 2 [globe] Keyword Group 3 [lighting device] Keyword Group 4 [facially] Keyword Group 5 [annular] Before Priority Date: priority:18990707
10/27/2022 9:30:54 AM	Google Scholar	(lamp) (frame) (spectacle) (socket) (opening)
10/27/2022 9:30:54 AM	Google Patents	Keyword Group 1 [(lamp) (frame) (spectacle) (socket) (opening)] Before Priority Date: priority:19160412

date, time	web site	search string
10/27/2022 9:30:55 AM	Google Scholar	lamp frame spectacle socket opening
10/27/2022 9:30:55 AM	Google Patents	Keyword Group 1 [lamp] Keyword Group 2 [frame] Keyword Group 3 [spectacle] Keyword Group 4 [socket] Keyword Group 5 [opening] Before Priority Date: priority:19160412
10/27/2022 9:31:02 AM	Google Scholar	(fuse) (insert) (plug) (slots) (contact)
10/27/2022 9:31:02 AM	Google Patents	Keyword Group 1 [(fuse) (insert) (plug) (slots) (contact)] Before Priority Date: priority:19310529
10/27/2022 9:31:03 AM	Google Scholar	fuse insert plug slots contact
10/27/2022 9:31:03 AM	Google Patents	Keyword Group 1 [fuse] Keyword Group 2 [insert] Keyword Group 3 [plug] Keyword Group 4 [slots] Keyword Group 5 [contact] Before Priority Date: priority:19310529
10/27/2022 9:31:10 AM	Google Scholar	(head) (bone) (receiver) (hearing) (contact surface)
10/27/2022 9:31:10 AM	Google Patents	Keyword Group 1 [(head) (bone) (receiver) (hearing) (contact surface)] Before Priority Date: priority:19330718

date, time	web site	search string
10/27/2022 9:31:11 AM	Google Scholar	head bone receiver hearing contact surface
10/27/2022 9:31:11 AM	Google Patents	Keyword Group 1 [head] Keyword Group 2 [bone] Keyword Group 3 [receiver] Keyword Group 4 [hearing] Keyword Group 5 [contact surface] Before Priority Date: priority:19330718
10/27/2022 9:31:18 AM	Google Scholar	(light) (spectacle frame) (battery) (bulb) (frame)
10/27/2022 9:31:18 AM	Google Patents	Keyword Group 1 [(light) (spectacle frame) (battery) (bulb) (frame)] Before Priority Date: priority:19490323
10/27/2022 9:31:20 AM	Google Scholar	light spectacle frame battery bulb frame
10/27/2022 9:31:20 AM	Google Patents	Keyword Group 1 [light] Keyword Group 2 [spectacle frame] Keyword Group 3 [battery] Keyword Group 4 [bulb] Keyword Group 5 [frame] Before Priority Date: priority:19490323
10/27/2022 9:31:27 AM	Google Scholar	(mount) (temple) (temples) (hinge) (ophthalmic)
10/27/2022 9:31:27 AM	Google Patents	Keyword Group 1 [(mount) (temple) (temples) (hinge) (ophthalmic)] Before Priority Date: priority:19550804

date, time	web site	search string
10/27/2022 9:31:28 AM	Google Scholar	mount temple temples hinge ophthalmic
10/27/2022 9:31:28 AM	Google Patents	Keyword Group 1 [mount] Keyword Group 2 [temple] Keyword Group 3 [temples] Keyword Group 4 [hinge] Keyword Group 5 [ophthalmic] Before Priority Date: priority:19550804
10/27/2022 9:31:36 AM	Google Scholar	(radiation) (crystal) (impedance) (spectral ranges) (exciter)
10/27/2022 9:31:36 AM	Google Patents	Keyword Group 1 [(radiation) (crystal) (impedance) (spectral ranges) (exciter)] Before Priority Date: priority:19531013
10/27/2022 9:31:37 AM	Google Scholar	radiation crystal impedance spectral ranges exciter
10/27/2022 9:31:37 AM	Google Patents	Keyword Group 1 [radiation] Keyword Group 2 [crystal] Keyword Group 3 [impedance] Keyword Group 4 [spectral ranges] Keyword Group 5 [exciter] Before Priority Date: priority:19531013
10/27/2022 9:31:43 AM	Google Scholar	(hearing aid) (ear) (frame) (spectacles) (parts)
10/27/2022 9:31:43 AM	Google Patents	Keyword Group 1 [(hearing aid) (ear) (frame) (spectacles) (parts)] Before Priority Date: priority:19530316

date, time	web site	search string
10/27/2022 9:31:44 AM	Google Scholar	hearing aid ear frame spectacles parts
10/27/2022 9:31:44 AM	Google Patents	Keyword Group 1 [hearing aid] Keyword Group 2 [ear] Keyword Group 3 [frame] Keyword Group 4 [spectacles] Keyword Group 5 [parts] Before Priority Date: priority:19530316
10/27/2022 9:31:59 AM	Google Scholar	(earphone) (seating) (hearing) (aid) (automatic self)
10/27/2022 9:31:59 AM	Google Patents	Keyword Group 1 [(earphone) (seating) (hearing) (aid) (automatic self)] Before Priority Date: priority:19541018
10/27/2022 9:32:00 AM	Google Scholar	earphone seating hearing aid automatic self
10/27/2022 9:32:00 AM	Google Patents	Keyword Group 1 [earphone] Keyword Group 2 [seating] Keyword Group 3 [hearing] Keyword Group 4 [aid] Keyword Group 5 [automatic self] Before Priority Date: priority:19541018
10/27/2022 10:15:30 AM	Google Scholar	(pivot pin) (eyeglass) (tang) (clevis) (extending)
10/27/2022 10:15:30 AM	Google Patents	Keyword Group 1 [(pivot pin) (eyeglass) (tang) (clevis) (extending)] Before Priority Date: priority:19981215

date, time	web site	search string
10/27/2022 10:15:31 AM	Google Scholar	pivot pin eyeglass tang clevis extending
10/27/2022 10:15:31 AM	Google Patents	Keyword Group 1 [pivot pin] Keyword Group 2 [eyeglass] Keyword Group 3 [tang] Keyword Group 4 [clevis] Keyword Group 5 [extending] Before Priority Date: priority:19981215
10/27/2022 10:15:37 AM	Google Scholar	(pivot pin) (wire) (hinge) (tang) (pin portions)
10/27/2022 10:15:37 AM	Google Patents	Keyword Group 1 [(pivot pin) (wire) (hinge) (tang) (pin portions)] Before Priority Date: priority:19991112
10/27/2022 10:15:38 AM	Google Scholar	pivot pin wire hinge tang pin portions
10/27/2022 10:15:38 AM	Google Patents	Keyword Group 1 [pivot pin] Keyword Group 2 [wire] Keyword Group 3 [hinge] Keyword Group 4 [tang] Keyword Group 5 [pin portions] Before Priority Date: priority:19991112
10/27/2022 10:15:44 AM	Google Scholar	(temple) (cavity) (forward end) (insert structure) (grasping)
10/27/2022 10:15:44 AM	Google Patents	Keyword Group 1 [(temple) (cavity) (forward end) (insert structure) (grasping)] Before Priority Date: priority:20000323

date, time	web site	search string
10/27/2022 10:15:45 AM	Google Scholar	temple cavity forward end insert structure grasping
10/27/2022 10:15:45 AM	Google Patents	Keyword Group 1 [temple] Keyword Group 2 [cavity] Keyword Group 3 [forward end] Keyword Group 4 [insert structure] Keyword Group 5 [grasping] Before Priority Date: priority:20000323
10/27/2022 10:15:51 AM	Google Scholar	(audio signal) (audio) (volume) (signal) (voice)
10/27/2022 10:15:51 AM	Google Patents	Keyword Group 1 [(audio signal) (audio) (volume) (signal) (voice)] Before Priority Date: priority:20000204
10/27/2022 10:15:52 AM	Google Scholar	audio signal audio volume signal voice
10/27/2022 10:15:52 AM	Google Patents	Keyword Group 1 [audio signal] Keyword Group 2 [audio] Keyword Group 3 [volume] Keyword Group 4 [signal] Keyword Group 5 [voice] Before Priority Date: priority:20000204
10/27/2022 10:15:59 AM	Google Scholar	(receiver) (lens frame) (eyeglasses) (temple piece) (electrical)
10/27/2022 10:15:59 AM	Google Patents	Keyword Group 1 [(receiver) (lens frame) (eyeglasses) (temple piece) (electrical)] Before Priority Date: priority:20011018

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date, time	web site	search string
10/27/2022 10:16:01 AM	Google Scholar	receiver lens frame eyeglasses temple piece electrical
10/27/2022 10:16:01 AM	Google Patents	Keyword Group 1 [receiver] Keyword Group 2 [lens frame] Keyword Group 3 [eyeglasses] Keyword Group 4 [temple piece] Keyword Group 5 [electrical] Before Priority Date: priority:20011018
10/27/2022 10:16:09 AM	Google Scholar	(values) (speaker) (listener) (location) (speech)
10/27/2022 10:16:09 AM	Google Patents	Keyword Group 1 [(values) (speaker) (listener) (location) (speech)] Before Priority Date: priority:20001127
10/27/2022 10:16:10 AM	Google Scholar	values speaker listener location speech
10/27/2022 10:16:10 AM	Google Patents	Keyword Group 1 [values] Keyword Group 2 [speaker] Keyword Group 3 [listener] Keyword Group 4 [location] Keyword Group 5 [speech] Before Priority Date: priority:20001127
10/27/2022 10:16:18 AM	Google Scholar	(hearing aid) (temples) (temple) (circuit) (recess)
10/27/2022 10:16:18 AM	Google Patents	Keyword Group 1 [(hearing aid) (temples) (temple) (circuit) (recess)] Before Priority Date: priority:19551208

date, time	web site	search string
10/27/2022 10:16:19 AM	Google Scholar	hearing aid temples temple circuit recess
10/27/2022 10:16:19 AM	Google Patents	Keyword Group 1 [hearing aid] Keyword Group 2 [temples] Keyword Group 3 [temple] Keyword Group 4 [circuit] Keyword Group 5 [recess] Before Priority Date: priority:19551208
10/27/2022 10:16:26 AM	Google Scholar	(hearing aid) (temple) (temples) (microphone) (housing)
10/27/2022 10:16:26 AM	Google Patents	Keyword Group 1 [(hearing aid) (temple) (temples) (microphone) (housing)] Before Priority Date: priority:19570225
10/27/2022 10:16:27 AM	Google Scholar	hearing aid temple temples microphone housing
10/27/2022 10:16:27 AM	Google Patents	Keyword Group 1 [hearing aid] Keyword Group 2 [temple] Keyword Group 3 [temples] Keyword Group 4 [microphone] Keyword Group 5 [housing] Before Priority Date: priority:19570225
10/27/2022 11:05:23 AM	Google Scholar	(guide) (carrier) (carrier body) (guide channel) (carrier unit)
10/27/2022 11:05:23 AM	Google Patents	Keyword Group 1 [(guide) (carrier) (carrier body) (guide channel) (carrier unit)] Before Priority Date: priority:19650712

date, time	web site	search string
10/27/2022 11:05:24 AM	Google Scholar	guide carrier carrier body guide channel carrier unit
10/27/2022 11:05:24 AM	Google Patents	Keyword Group 1 [guide] Keyword Group 2 [carrier] Keyword Group 3 [carrier body] Keyword Group 4 [guide channel] Keyword Group 5 [carrier unit] Before Priority Date: priority:19650712
10/27/2022 11:05:30 AM	Google Scholar	(hinge) (bar) (plunger) (temple) (hinge pin)
10/27/2022 11:05:30 AM	Google Patents	Keyword Group 1 [(hinge) (bar) (plunger) (temple) (hinge pin)] Before Priority Date: priority:19661209
10/27/2022 11:05:31 AM	Google Scholar	hinge bar plunger temple hinge pin
10/27/2022 11:05:31 AM	Google Patents	Keyword Group 1 [hinge] Keyword Group 2 [bar] Keyword Group 3 [plunger] Keyword Group 4 [temple] Keyword Group 5 [hinge pin] Before Priority Date: priority:19661209
10/27/2022 11:05:38 AM	Google Scholar	(frame) (temple bar) (temple) (section) (hinge)
10/27/2022 11:05:38 AM	Google Patents	Keyword Group 1 [(frame) (temple bar) (temple) (section) (hinge)] Before Priority Date: priority:19730116

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date, time	web site	search string
10/27/2022 11:05:39 AM	Google Scholar	frame temple bar temple section hinge
10/27/2022 11:05:39 AM	Google Patents	Keyword Group 1 [frame] Keyword Group 2 [temple bar] Keyword Group 3 [temple] Keyword Group 4 [section] Keyword Group 5 [hinge] Before Priority Date: priority:19730116
10/27/2022 11:05:44 AM	Google Scholar	(frame) (light emitting) (eyeglasses) (pair) (switch)
10/27/2022 11:05:44 AM	Google Patents	Keyword Group 1 [(frame) (light emitting) (eyeglasses) (pair) (switch)] Before Priority Date: priority:19791129
10/27/2022 11:05:46 AM	Google Scholar	frame light emitting eyeglasses pair switch
10/27/2022 11:05:46 AM	Google Patents	Keyword Group 1 [frame] Keyword Group 2 [light emitting] Keyword Group 3 [eyeglasses] Keyword Group 4 [pair] Keyword Group 5 [switch] Before Priority Date: priority:19791129
10/27/2022 11:05:52 AM	Google Scholar	(user) (display) (video) (computer) (head mounted)
10/27/2022 11:05:52 AM	Google Patents	Keyword Group 1 [(user) (display) (video) (computer) (head mounted)] Before Priority Date: priority:19841114

date, time	web site	search string
10/27/2022 11:05:54 AM	Google Scholar	user display video computer head mounted
10/27/2022 11:05:54 AM	Google Patents	Keyword Group 1 [user] Keyword Group 2 [display] Keyword Group 3 [video] Keyword Group 4 [computer] Keyword Group 5 [head mounted] Before Priority Date: priority:19841114
10/27/2022 11:06:01 AM	Google Scholar	(vehicle) (image) (occupant) (images) (seat)
10/27/2022 11:06:01 AM	Google Patents	Keyword Group 1 [(vehicle) (image) (occupant) (images) (seat)] Before Priority Date: priority:20020903
10/27/2022 11:06:02 AM	Google Scholar	vehicle image occupant images seat
10/27/2022 11:06:02 AM	Google Patents	Keyword Group 1 [vehicle] Keyword Group 2 [image] Keyword Group 3 [occupant] Keyword Group 4 [images] Keyword Group 5 [seat] Before Priority Date: priority:20020903
10/27/2022 11:06:13 AM	Google Scholar	(vehicle) (interior space) (objects) (occupant) (inanimate)
10/27/2022 11:06:13 AM	Google Patents	Keyword Group 1 [(vehicle) (interior space) (objects) (occupant) (inanimate)] Before Priority Date: priority:19820618

date, time	web site	search string
10/27/2022 11:06:14 AM	Google Scholar	vehicle interior space objects occupant inanimate
10/27/2022 11:06:14 AM	Google Patents	Keyword Group 1 [vehicle] Keyword Group 2 [interior space] Keyword Group 3 [objects] Keyword Group 4 [occupant] Keyword Group 5 [inanimate] Before Priority Date: priority:19820618
10/27/2022 11:06:21 AM	Google Scholar	(images) (vehicle) (data) (information) (occupant)
10/27/2022 11:06:21 AM	Google Patents	Keyword Group 1 [(images) (vehicle) (data) (information) (occupant)] Before Priority Date: priority:20020903
10/27/2022 11:06:22 AM	Google Scholar	images vehicle data information occupant
10/27/2022 11:06:22 AM	Google Patents	Keyword Group 1 [images] Keyword Group 2 [vehicle] Keyword Group 3 [data] Keyword Group 4 [information] Keyword Group 5 [occupant] Before Priority Date: priority:20020903
10/27/2022 11:06:36 AM	Google Scholar	(eyeglasses) (improve natural) (natural hearing) (hearing) (improve)
10/27/2022 11:06:36 AM	Google Patents	Keyword Group 1 [(eyeglasses) (improve natural) (natural hearing) (hearing) (improve)] Before Priority Date: priority:19840322

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date, time	web site	search string
10/27/2022 11:06:37 AM	Google Scholar	eyeglasses improve natural natural hearing hearing improve
10/27/2022 11:06:37 AM	Google Patents	Keyword Group 1 [eyeglasses] Keyword Group 2 [improve natural] Keyword Group 3 [natural hearing] Keyword Group 4 [hearing] Keyword Group 5 [improve] Before Priority Date: priority:19840322
10/27/2022 11:23:35 AM	Google Scholar	(lamp) (recess) (frame) (recesses) (spectacles)
10/27/2022 11:23:35 AM	Google Patents	Keyword Group 1 [(lamp) (recess) (frame) (recesses) (spectacles)] Before Priority Date: priority:19570412
10/27/2022 11:23:36 AM	Google Scholar	lamp recess frame recesses spectacles
10/27/2022 11:23:36 AM	Google Patents	Keyword Group 1 [lamp] Keyword Group 2 [recess] Keyword Group 3 [frame] Keyword Group 4 [recesses] Keyword Group 5 [spectacles] Before Priority Date: priority:19570412
10/27/2022 11:23:42 AM	Google Scholar	(optical device) (lens) (illuminated optical) (frame) (bulbs)
10/27/2022 11:23:42 AM	Google Patents	Keyword Group 1 [(optical device) (lens) (illuminated optical) (frame) (bulbs)] Before Priority Date: priority:19590508

date, time	web site	search string
10/27/2022 11:23:43 AM	Google Scholar	optical device lens illuminated optical frame bulbs
10/27/2022 11:23:43 AM	Google Patents	Keyword Group 1 [optical device] Keyword Group 2 [lens] Keyword Group 3 [illuminated optical] Keyword Group 4 [frame] Keyword Group 5 [bulbs] Before Priority Date: priority:19590508
10/27/2022 11:23:49 AM	Google Scholar	(spectacles) (ultraviolet) (pair) (bodies) (wearer)
10/27/2022 11:23:49 AM	Google Patents	Keyword Group 1 [(spectacles) (ultraviolet) (pair) (bodies) (wearer)] Before Priority Date: priority:19691217
10/27/2022 11:23:50 AM	Google Scholar	spectacles ultraviolet pair bodies wearer
10/27/2022 11:23:50 AM	Google Patents	Keyword Group 1 [spectacles] Keyword Group 2 [ultraviolet] Keyword Group 3 [pair] Keyword Group 4 [bodies] Keyword Group 5 [wearer] Before Priority Date: priority:19691217
10/27/2022 11:23:57 AM	Google Scholar	(output) (integrator) (sunburn) (switch) (solar radiation)
10/27/2022 11:23:57 AM	Google Patents	Keyword Group 1 [(output) (integrator) (sunburn) (switch) (solar radiation)] Before Priority Date: priority:19690804

date, time	web site	search string
10/27/2022 11:23:58 AM	Google Scholar	output integrator sunburn switch solar radiation
10/27/2022 11:23:58 AM	Google Patents	Keyword Group 1 [output] Keyword Group 2 [integrator] Keyword Group 3 [sunburn] Keyword Group 4 [switch] Keyword Group 5 [solar radiation] Before Priority Date: priority:19690804
10/27/2022 11:24:06 AM	Google Scholar	(polarization direction) (images) (stereoscopic display) (vibration) (light)
10/27/2022 11:24:06 AM	Google Patents	Keyword Group 1 [(polarization direction) (images) (stereoscopic display) (vibration) (light)] Before Priority Date: priority:19730511
10/27/2022 11:24:07 AM	Google Scholar	polarization direction images stereoscopic display vibration light
10/27/2022 11:24:07 AM	Google Patents	Keyword Group 1 [polarization direction] Keyword Group 2 [images] Keyword Group 3 [stereoscopic display] Keyword Group 4 [vibration] Keyword Group 5 [light] Before Priority Date: priority:19730511
10/27/2022 11:24:13 AM	Google Scholar	(temple) (tip) (electrical) (members) (engageable)
10/27/2022 11:24:13 AM	Google Patents	Keyword Group 1 [(temple) (tip) (electrical) (members) (engageable)] Before Priority Date: priority:19710318

date, time	web site	search string
10/27/2022 11:24:14 AM	Google Scholar	temple tip electrical members engageable
10/27/2022 11:24:14 AM	Google Patents	Keyword Group 1 [temple] Keyword Group 2 [tip] Keyword Group 3 [electrical] Keyword Group 4 [members] Keyword Group 5 [engageable] Before Priority Date: priority:19710318
10/27/2022 11:24:20 AM	Google Scholar	(clip) (contacts) (frame) (reading aid) (pair)
10/27/2022 11:24:20 AM	Google Patents	Keyword Group 1 [(clip) (contacts) (frame) (reading aid) (pair)] Before Priority Date: priority:19740430
10/27/2022 11:24:21 AM	Google Scholar	clip contacts frame reading aid pair
10/27/2022 11:24:21 AM	Google Patents	Keyword Group 1 [clip] Keyword Group 2 [contacts] Keyword Group 3 [frame] Keyword Group 4 [reading aid] Keyword Group 5 [pair] Before Priority Date: priority:19740430
10/27/2022 11:24:27 AM	Google Scholar	(signal) (patrons) (audio) (output signal) (frequency)
10/27/2022 11:24:27 AM	Google Patents	Keyword Group 1 [(signal) (patrons) (audio) (output signal) (frequency)] Before Priority Date: priority:19780410

date, time	web site	search string
10/27/2022 11:24:28 AM	Google Scholar	signal patrons audio output signal frequency
10/27/2022 11:24:28 AM	Google Patents	Keyword Group 1 [signal] Keyword Group 2 [patrons] Keyword Group 3 [audio] Keyword Group 4 [output signal] Keyword Group 5 [frequency] Before Priority Date: priority:19780410
10/27/2022 12:10:27 PM	Google Scholar	(temples) (frame) (radio) (loud speakers) (speakers)
10/27/2022 12:10:27 PM	Google Patents	Keyword Group 1 [(temples) (frame) (radio) (loud speakers) (speakers)] Before Priority Date: priority:19871120
10/27/2022 12:10:29 PM	Google Scholar	temples frame radio loud speakers speakers
10/27/2022 12:10:29 PM	Google Patents	Keyword Group 1 [temples] Keyword Group 2 [frame] Keyword Group 3 [radio] Keyword Group 4 [loud speakers] Keyword Group 5 [speakers] Before Priority Date: priority:19871120
10/27/2022 12:10:34 PM	Google Scholar	(radio) (top frame) (pair) (housing) (slot)
10/27/2022 12:10:34 PM	Google Patents	Keyword Group 1 [(radio) (top frame) (pair) (housing) (slot)] Before Priority Date: priority:19880705

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date, time	web site	search string
10/27/2022 12:10:36 PM	Google Scholar	radio top frame pair housing slot
10/27/2022 12:10:36 PM	Google Patents	Keyword Group 1 [radio] Keyword Group 2 [top frame] Keyword Group 3 [pair] Keyword Group 4 [housing] Keyword Group 5 [slot] Before Priority Date: priority:19880705
10/27/2022 12:10:42 PM	Google Scholar	(solar energy) (battery) (nose bridge) (bridge element) (lens)
10/27/2022 12:10:42 PM	Google Patents	Keyword Group 1 [(solar energy) (battery) (nose bridge) (bridge element) (lens)] Before Priority Date: priority:19891107
10/27/2022 12:10:43 PM	Google Scholar	solar energy battery nose bridge bridge element lens
10/27/2022 12:10:43 PM	Google Patents	Keyword Group 1 [solar energy] Keyword Group 2 [battery] Keyword Group 3 [nose bridge] Keyword Group 4 [bridge element] Keyword Group 5 [lens] Before Priority Date: priority:19891107
10/27/2022 12:10:49 PM	Google Scholar	(bow) (set forth) (framework) (speaker) (speakers)
10/27/2022 12:10:49 PM	Google Patents	Keyword Group 1 [(bow) (set forth) (framework) (speaker) (speakers)] Before Priority Date: priority:19910122

date, time	web site	search string
10/27/2022 12:10:50 PM	Google Scholar	bow set forth framework speaker speakers
10/27/2022 12:10:50 PM	Google Patents	Keyword Group 1 [bow] Keyword Group 2 [set forth] Keyword Group 3 [framework] Keyword Group 4 [speaker] Keyword Group 5 [speakers] Before Priority Date: priority:19910122
10/27/2022 12:10:57 PM	Google Scholar	(fuel) (flow rate) (gas turbine) (combustor) (air)
10/27/2022 12:10:57 PM	Google Patents	Keyword Group 1 [(fuel) (flow rate) (gas turbine) (combustor) (air)] Before Priority Date: priority:19910823
10/27/2022 12:10:58 PM	Google Scholar	fuel flow rate gas turbine combustor air
10/27/2022 12:10:58 PM	Google Patents	Keyword Group 1 [fuel] Keyword Group 2 [flow rate] Keyword Group 3 [gas turbine] Keyword Group 4 [combustor] Keyword Group 5 [air] Before Priority Date: priority:19910823
10/27/2022 12:11:07 PM	Google Scholar	(vehicle) (container) (transducer) (interior space) (objects)
10/27/2022 12:11:07 PM	Google Patents	Keyword Group 1 [(vehicle) (container) (transducer) (interior space) (objects)] Before Priority Date: priority:19920505

date, time	web site	search string
10/27/2022 12:11:08 PM	Google Scholar	vehicle container transducer interior space objects
10/27/2022 12:11:08 PM	Google Patents	Keyword Group 1 [vehicle] Keyword Group 2 [container] Keyword Group 3 [transducer] Keyword Group 4 [interior space] Keyword Group 5 [objects] Before Priority Date: priority:19920505
10/27/2022 12:11:20 PM	Google Scholar	(vehicle) (systems) (occupant) (transmitter) (control unit)
10/27/2022 12:11:20 PM	Google Patents	Keyword Group 1 [(vehicle) (systems) (occupant) (transmitter) (control unit)] Before Priority Date: priority:19920505
10/27/2022 12:11:22 PM	Google Scholar	vehicle systems occupant transmitter control unit
10/27/2022 12:11:22 PM	Google Patents	Keyword Group 1 [vehicle] Keyword Group 2 [systems] Keyword Group 3 [occupant] Keyword Group 4 [transmitter] Keyword Group 5 [control unit] Before Priority Date: priority:19920505
10/27/2022 12:11:28 PM	Google Scholar	(sleeve) (flexible) (hollow) (pair) (accessory)
10/27/2022 12:11:28 PM	Google Patents	Keyword Group 1 [(sleeve) (flexible) (hollow) (pair) (accessory)] Before Priority Date: priority:19920214

date, time	web site	search string
10/27/2022 12:11:29 PM	Google Scholar	sleeve flexible hollow pair accessory
10/27/2022 12:11:29 PM	Google Patents	Keyword Group 1 [sleeve] Keyword Group 2 [flexible] Keyword Group 3 [hollow] Keyword Group 4 [pair] Keyword Group 5 [accessory] Before Priority Date: priority:19920214
10/27/2022 12:29:21 PM	Google Scholar	(vehicle) (occupant) (imagers) (pat) (compartment)
10/27/2022 12:29:21 PM	Google Patents	Keyword Group 1 [(vehicle) (occupant) (imagers) (pat) (compartment)] Before Priority Date: priority:19920505
10/27/2022 12:29:22 PM	Google Scholar	vehicle occupant imagers pat compartment
10/27/2022 12:29:22 PM	Google Patents	Keyword Group 1 [vehicle] Keyword Group 2 [occupant] Keyword Group 3 [imagers] Keyword Group 4 [pat] Keyword Group 5 [compartment] Before Priority Date: priority:19920505
10/27/2022 12:29:29 PM	Google Scholar	(images) (vehicle) (seat) (compartment) (occupant)
10/27/2022 12:29:29 PM	Google Patents	Keyword Group 1 [(images) (vehicle) (seat) (compartment) (occupant)] Before Priority Date: priority:19950607

date, time	web site	search string
10/27/2022 12:29:30 PM	Google Scholar	images vehicle seat compartment occupant
10/27/2022 12:29:30 PM	Google Patents	Keyword Group 1 [images] Keyword Group 2 [vehicle] Keyword Group 3 [seat] Keyword Group 4 [compartment] Keyword Group 5 [occupant] Before Priority Date: priority:19950607
10/27/2022 12:29:36 PM	Google Scholar	(transmitter) (switch) (earphones) (antenna) (radio)
10/27/2022 12:29:36 PM	Google Patents	Keyword Group 1 [(transmitter) (switch) (earphones) (antenna) (radio)] Before Priority Date: priority:19930119
10/27/2022 12:29:37 PM	Google Scholar	transmitter switch earphones antenna radio
10/27/2022 12:29:37 PM	Google Patents	Keyword Group 1 [transmitter] Keyword Group 2 [switch] Keyword Group 3 [earphones] Keyword Group 4 [antenna] Keyword Group 5 [radio] Before Priority Date: priority:19930119
10/27/2022 12:29:43 PM	Google Scholar	(eye) (limbus) (iop) (changes) (recited)
10/27/2022 12:29:43 PM	Google Patents	Keyword Group 1 [(eye) (limbus) (iop) (changes) (recited)] Before Priority Date: priority:19930804

date, time	web site	search string
10/27/2022 12:29:45 PM	Google Scholar	eye limbus iop changes recited
10/27/2022 12:29:45 PM	Google Patents	Keyword Group 1 [eye] Keyword Group 2 [limbus] Keyword Group 3 [iop] Keyword Group 4 [changes] Keyword Group 5 [recited] Before Priority Date: priority:19930804
10/27/2022 12:29:52 PM	Google Scholar	(piece) (temple) (battery) (temple piece) (lens)
10/27/2022 12:29:52 PM	Google Patents	Keyword Group 1 [(piece) (temple) (battery) (temple piece) (lens)] Before Priority Date: priority:19930910
10/27/2022 12:29:53 PM	Google Scholar	piece temple battery temple piece lens
10/27/2022 12:29:53 PM	Google Patents	Keyword Group 1 [piece] Keyword Group 2 [temple] Keyword Group 3 [battery] Keyword Group 4 [temple piece] Keyword Group 5 [lens] Before Priority Date: priority:19930910
10/27/2022 12:30:06 PM	Google Scholar	(internet) (product) (kiosk) (upn) (consumer)
10/27/2022 12:30:06 PM	Google Patents	Keyword Group 1 [(internet) (product) (kiosk) (upn) (consumer)] Before Priority Date: priority:19961025

date, time	web site	search string
10/27/2022 12:30:07 PM	Google Scholar	internet product kiosk upn consumer
10/27/2022 12:30:07 PM	Google Patents	Keyword Group 1 [internet] Keyword Group 2 [product] Keyword Group 3 [kiosk] Keyword Group 4 [upn] Keyword Group 5 [consumer] Before Priority Date: priority:19961025
10/27/2022 12:30:23 PM	Google Scholar	(internet) (kiosk) (consumer) (product) (enabled)
10/27/2022 12:30:23 PM	Google Patents	Keyword Group 1 [(internet) (kiosk) (consumer) (product) (enabled)] Before Priority Date: priority:19961025
10/27/2022 12:30:25 PM	Google Scholar	internet kiosk consumer product enabled
10/27/2022 12:30:25 PM	Google Patents	Keyword Group 1 [internet] Keyword Group 2 [kiosk] Keyword Group 3 [consumer] Keyword Group 4 [product] Keyword Group 5 [enabled] Before Priority Date: priority:19961025
10/27/2022 12:30:37 PM	Google Scholar	(product) (internet) (information) (web) (consumer)
10/27/2022 12:30:37 PM	Google Patents	Keyword Group 1 [(product) (internet) (information) (web) (consumer)] Before Priority Date: priority:19961025

date, time	web site	search string
10/27/2022 12:30:39 PM	Google Scholar	product internet information web consumer
10/27/2022 12:30:39 PM	Google Patents	Keyword Group 1 [product] Keyword Group 2 [internet] Keyword Group 3 [information] Keyword Group 4 [web] Keyword Group 5 [consumer] Before Priority Date: priority:19961025
10/27/2022 12:30:49 PM	Google Scholar	(upn) (kiosk) (url) (product) (internet)
10/27/2022 12:30:49 PM	Google Patents	Keyword Group 1 [(upn) (kiosk) (url) (product) (internet)] Before Priority Date: priority:19990421
10/27/2022 12:30:50 PM	Google Scholar	upn kiosk url product internet
10/27/2022 12:30:50 PM	Google Patents	Keyword Group 1 [upn] Keyword Group 2 [kiosk] Keyword Group 3 [url] Keyword Group 4 [product] Keyword Group 5 [internet] Before Priority Date: priority:19990421
10/27/2022 12:30:59 PM	Google Scholar	(product) (consumer product) (web) (kiosk) (consumer)
10/27/2022 12:30:59 PM	Google Patents	Keyword Group 1 [(product) (consumer product) (web) (kiosk) (consumer)] Before Priority Date: priority:19961025

date, time	web site	search string
10/27/2022 12:31:00 PM	Google Scholar	product consumer product web kiosk consumer
10/27/2022 12:31:00 PM	Google Patents	Keyword Group 1 [product] Keyword Group 2 [consumer product] Keyword Group 3 [web] Keyword Group 4 [kiosk] Keyword Group 5 [consumer] Before Priority Date: priority:19961025
10/27/2022 12:35:17 PM	Google Scholar	(information) (unit) (eye) (captured) (constructed)
10/27/2022 12:35:17 PM	Google Patents	Keyword Group 1 [(information) (unit) (eye) (captured) (constructed)] Before Priority Date: priority:20010130
10/27/2022 12:35:18 PM	Google Scholar	information unit eye captured constructed
10/27/2022 12:35:18 PM	Google Patents	Keyword Group 1 [information] Keyword Group 2 [unit] Keyword Group 3 [eye] Keyword Group 4 [captured] Keyword Group 5 [constructed] Before Priority Date: priority:20010130
10/27/2022 12:35:25 PM	Google Scholar	(electro) (lens) (active) (optical lens) (controller)
10/27/2022 12:35:25 PM	Google Patents	Keyword Group 1 [(electro) (lens) (active) (optical lens) (controller)] Before Priority Date: priority:20000623

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date, time	web site	search string
10/27/2022 12:35:26 PM	Google Scholar	electro lens active optical lens controller
10/27/2022 12:35:26 PM	Google Patents	Keyword Group 1 [electro] Keyword Group 2 [lens] Keyword Group 3 [active] Keyword Group 4 [optical lens] Keyword Group 5 [controller] Before Priority Date: priority:20000623
10/27/2022 12:35:35 PM	Google Scholar	(monitoring device) (unit) (sensor) (glasses) (blood pressure)
10/27/2022 12:35:35 PM	Google Patents	Keyword Group 1 [(monitoring device) (unit) (sensor) (glasses) (blood pressure)] Before Priority Date: priority:20010512
10/27/2022 12:35:36 PM	Google Scholar	monitoring device unit sensor glasses blood pressure
10/27/2022 12:35:36 PM	Google Patents	Keyword Group 1 [monitoring device] Keyword Group 2 [unit] Keyword Group 3 [sensor] Keyword Group 4 [glasses] Keyword Group 5 [blood pressure] Before Priority Date: priority:20010512
10/27/2022 12:35:43 PM	Google Scholar	(wristwatch) (magnetic) (annular frame) (tag) (antenna)
10/27/2022 12:35:43 PM	Google Patents	Keyword Group 1 [(wristwatch) (magnetic) (annular frame) (tag) (antenna)] Before Priority Date: priority:20010515

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date, time	web site	search string
10/27/2022 12:35:44 PM	Google Scholar	wristwatch magnetic annular frame tag antenna
10/27/2022 12:35:44 PM	Google Patents	Keyword Group 1 [wristwatch] Keyword Group 2 [magnetic] Keyword Group 3 [annular frame] Keyword Group 4 [tag] Keyword Group 5 [antenna] Before Priority Date: priority:20010515
10/27/2022 12:35:50 PM	Google Scholar	(light) (heart rate) (receiving element) (emitting element) (change)
10/27/2022 12:35:50 PM	Google Patents	Keyword Group 1 [(light) (heart rate) (receiving element) (emitting element) (change)] Before Priority Date: priority:20010719
10/27/2022 12:35:51 PM	Google Scholar	light heart rate receiving element emitting element change
10/27/2022 12:35:51 PM	Google Patents	Keyword Group 1 [light] Keyword Group 2 [heart rate] Keyword Group 3 [receiving element] Keyword Group 4 [emitting element] Keyword Group 5 [change] Before Priority Date: priority:20010719
10/27/2022 12:36:05 PM	Google Scholar	(therapy) (shutter glasses) (patient) (lens) (controller)
10/27/2022 12:36:05 PM	Google Patents	Keyword Group 1 [(therapy) (shutter glasses) (patient) (lens) (controller)] Before Priority Date: priority:20110915

date, time	web site	search string
10/27/2022 12:36:06 PM	Google Scholar	therapy shutter glasses patient lens controller
10/27/2022 12:36:06 PM	Google Patents	Keyword Group 1 [therapy] Keyword Group 2 [shutter glasses] Keyword Group 3 [patient] Keyword Group 4 [lens] Keyword Group 5 [controller] Before Priority Date: priority:20110915

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	10822218	1)Thomas, C. Douglass, 2)Tong, Peter P.	EYEGLASSES FOR WIRELESS COMMUNICATIONS	04/12/2004	US 60527565 US 10462591 US 10822218 US 60509631	US 20060003803 A1 US 7792552 B2	01/05/2006 09/07/2010
US	10964011	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	TETHERED ELECTRICAL COMPONENTS FOR EYEGLASSES	10/12/2004	US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60618107 US 10462591 US 60605191 US 60592045	US 20050078274 A1 US 7192136 B2	04/14/2005 03/20/2007
US	11006343	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	12/07/2004	US 11006343 US 60527565	US 20050124324 A1 US 7116976 B2	06/09/2005 10/03/2006
US	11078857	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	Radiation monitoring system	03/11/2005	US 60647826 US 60583169 US 60562798 US 60620238 US 60618107 US 60605191 US 11078857 US 60592045 US 60647836	US 20050230596 A1	10/20/2005
US	11078855	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR WITH RADIATION DETECTION SYSTEM	03/11/2005	US 60647826 US 60583169 US 11078855 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20090059159 A1 US 7500746 B1	03/05/2009 03/10/2009
CN	200510067143			04/14/2005	US 60562798	CN 1700059 A CN 100580507 C	11/23/2005 01/13/2010
CN	200520016479			04/14/2005	US 60562798	CN 2859575 Y	01/17/2007

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US	11183269	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING AFTER-MARKET ELECTRICAL COMPONENTS	07/15/2005	US 60647826 US 60527565 US 60583169 US 11183269 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050264752 A1 US 7922321 B2	12/01/2005 04/12/2011
US	11183263	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH A CLOCK OR OTHER ELECTRICAL COMPONENT	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 11183263 US 60592045 US 60647836	US 20060001827 A1 US 7380936 B2	01/05/2006 06/03/2008
US	11183256	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH ELECTRICAL COMPONENTS	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 11183256 US 60592045 US 60647836	US 20060023158 A1 US 7500747 B2	02/02/2006 03/10/2009
US	11183262	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH HEARING ENHANCED AND OTHER AUDIO SIGNAL-GENERATING CAPABILITIES	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 11183262 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050248717 A1 US 7760898 B2	11/10/2005 07/20/2010
US	11183283	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	Event eyeglasses	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 11183283 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050248719 A1	11/10/2005

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US	11183276	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH ACTIVITY MONITORING	07/15/2005	US 60647826 US 60527565 US 60583169 US 11183276 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050248718 A1 US 7255437 B2	11/10/2005 08/14/2007
US	PCT/US06/22015	1)CHEUNG, Kwok, Wai, , 2)TONG, Peter, P ,;, 3)IPVENTURE, INC.,	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	06/07/2006	US 60689686	WO 2006135614 A2 WO 2006135614 A3 WO 2006135614 A8 WO 2006135614 A9	12/21/2006 03/22/2007 07/10/2008 12/11/2008
CN	200680027964			06/07/2006	US 60689686	CN 101297191 A	10/29/2008
US	11452115	1)Cheung, Kwok Wai, 2)Tong, Peter P., 3)Thomas, C. Douglass	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	06/12/2006	US 11452115 US 60689686 US 11006343 US 60527565	US 20060259565 A1 US 7729688 B2	11/16/2006 06/01/2010
US	11497651	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	08/02/2006	US 11006343 US 60527565 US 11497651	US 20060276210 A1 US 7376434 B2	12/07/2006 05/20/2008
US	11521256	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	TETHERED ELECTRICAL COMPONENTS FOR EYEGLASSES	09/13/2006	US 11521256 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60605191 US 60592045	US 7438410 B1	10/21/2008

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	11580222	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING AFTER-MARKET ELECTRICAL COMPONENTS	10/11/2006	US 60583169 US 60725896 US 11183269 US 60787850 US 60846150 US 10964011 US 60725999 US 60527565 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60605191 US 60592045 US 60647836	US 20070046887 A1 US 7581833 B2	03/01/2007 09/01/2009
US	11546685	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES HAVING A CAMERA	10/11/2006	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 60725999 US 11183256 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20070030442 A1 US 7806525 B2	02/08/2007 10/05/2010
US	11650626	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Day, Robert Grant,5)Tong, Peter P.	EYEGLASSES WITH A HEART RATE MONITOR	01/06/2007	US 11650626 US 60583169 US 60787850 US 60846150 US 10964011 US 11183256 US 60647826 US 60527565 US 60509631 US 60763854 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20070109491 A1 US 7677723 B2	05/17/2007 03/16/2010
US	11700550	1)Howell, Thomas A., 2)Tong, Peter P., 3)Thomas, C. Douglass	Hat with a radiation sensor	01/30/2007	US 60583169 US 11700550 US 11078855 US 60787850 US 60846150 US 60647826 US 60763854 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20070186330 A1	08/16/2007

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CN	200710090621			04/02/2007	US 60787850	CN 101046557 A	10/03/2007
US	11891411	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH ACTIVITY MONITORING	08/09/2007	US 60583169 US 11183276 US 10964011 US 11891411 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20070279584 A1 US 7401918 B2	12/06/2007 07/22/2008
US	11903512	1)Howell, Thomas A., 2)Chao, David ,3)Lee, Yeou-Soon ,4)Thomas, C. Douglass,5)Tong, Peter P.	EYEGLASSES WITH ACTIVITY MONITORING AND ACOUSTIC DAMPENING	09/20/2007	US 60846150 US 11903512	US 20080068559 A1 US 7543934 B2	03/20/2008 06/09/2009
US	12074302	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	TETHERED ELECTRICAL COMPONENTS FOR EYEGLASSES	03/03/2008	US 11521256 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 12074302 US 60605191 US 60592045	US 20080151179 A1 US 7621634 B2	06/26/2008 11/24/2009
US	12074961	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	03/07/2008	US 11497651 US 12074961 US 11006343 US 60527565	US 7890128 B1	02/15/2011
US	12152480	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH RFID TAGS OR WITH A STRAP	05/13/2008	US 60647826 US 60620238 US 60618107 US 60605191 US 11183263 US 12152480 US 60592045 US 60647836	US 20080218684 A1 US 8337013 B2	09/11/2008 12/25/2012
US	12214435	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH USER MONITORING	06/19/2008	US 60583169 US 11183276 US 10964011 US 11891411 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 12214435 US 60605191 US 60592045 US 60647836	US 20080278678 A1 US 7481531 B2	11/13/2008 01/27/2009

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US	12317043	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR WITH MONITORING CAPABILITY	12/18/2008	US 60583169 US 11183276 US 10964011 US 11891411 US 12317043 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 12214435 US 60605191 US 60592045 US 60647836	US 20090141233 A1 US 7771046 B2	06/04/2009 08/10/2010
US	12322377	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	Eyewear with radiation detection system	02/02/2009	US 60647826 US 60583169 US 12322377 US 11078855 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20090147215 A1 US 8770742 B2	06/11/2009 07/08/2014
US	12462286	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING ELECTRICAL COMPONENTS AND APPARATUS THEREFOR	07/31/2009	US 60583169 US 60725896 US 11183269 US 60787850 US 60846150 US 10964011 US 60725999 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60605191 US 12462286 US 60592045 US 60647836	US 20090296044 A1 US 8109629 B2	12/03/2009 02/07/2012
US	12798995	1)Cheung, Kwok Wai, 2)Tong, Peter P., 3)Thomas, C. Douglass	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	04/14/2010	US 11452115 US 60689686 US 11006343 US 60527565 US 12798995	US 20100205272 A1 US 8744407 B2	08/12/2010 06/03/2014

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	12803732	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEGLASSES WITH A PRINTED CIRCUIT BOARD	07/01/2010	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20110102734 A1 US 8434863 B2	05/05/2011 05/07/2013
US	12806312	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR WITH MULTI-PART TEMPLE FOR SUPPORTING ONE OR MORE ELECTRICAL COMPONENTS	08/10/2010	US 60583169 US 60725896 US 60787850 US 10822218 US 11891411 US 60647826 US 60527565 US 12214435 US 60605191 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 60846150 US 10964011 US 12806312 US 60725999 US 12317043 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 10462591	US 20100309426 A1 US 8465151 B2	12/09/2010 06/18/2013
US	12987018	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	01/07/2011	US 12987018 US 11497651 US 12074961 US 11006343 US 60527565	US 8112104 B1	02/07/2012
US	13085402	1)HOWELL, THOMAS A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING AFTER-MARKET ELECTRICAL COMPONENTS	04/12/2011	US 60583169 US 11183269 US 10964011 US 13085402 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20110187990 A1 US 8500271 B2	08/04/2011 08/06/2013

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	13291020	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglas,4)Tong, Peter P.	EYEWEAR WITH TOUCH-SENSITIVE INPUT SURFACE	11/07/2011	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 13291020 US 60605191 US 60592045 US 60647836	US 20120050668 A1 US 8430507 B2	03/01/2012 04/30/2013
US	13363360	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	01/31/2012	US 12987018 US 11497651 US 12074961 US 11006343 US 60527565 US 13363360	US 8280419 B1	10/02/2012
US	13367346	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING ELECTRICAL COMPONENTS AND APPARATUS THEREFOR	02/06/2012	US 60583169 US 60725896 US 11078855 US 60787850 US 13367346 US 10822218 US 60647826 US 60527565 US 60605191 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 60725999 US 11183256 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 11078857 US 11183263	US 20120133885 A1 US 9033493 B2	05/31/2012 05/19/2015
US	13593483	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	08/23/2012	US 12987018 US 11497651 US 13593483 US 11006343 US 60527565 US 13363360 US 12074961	US 8737978 B1	05/27/2014

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US	13831445	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR WITH PRINTED CIRCUIT BOARD	03/14/2013	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 60647826 US 60527565 US 60605191 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 13831445 US 11078857 US 11183263	US 20140268013 A1 US 20170068117 A9 US 10310296 B2	09/18/2014 03/09/2017 06/04/2019
US	13831512	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING ONE OR MORE ELECTRICAL COMPONENTS	03/14/2013	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 11891411 US 60647826 US 60527565 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12806312 US 60725999 US 11183256 US 12317043 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 10462591 US 11078857 US 11183263	US 20130201440 A1 US 9690121 B2	08/08/2013 06/27/2017

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US	13831419	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR WITH TOUCH-SENSITIVE INPUT SURFACE	03/14/2013	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 60647826 US 60527565 US 13291020 US 60605191 US 13831419 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 11078857 US 11183263	US 20140268008 A1 US 20160246075 A9 US 10345625 B2	09/18/2014 08/25/2016 07/09/2019
US	13955336	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING BONE CONDUCTING SPEAKER	07/31/2013	US 60583169 US 11078855 US 11183269 US 11183276 US 10964011 US 13955336 US 10822218 US 13085402 US 11183256 US 60647826 US 11006343 US 60527565 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 60605191 US 11078857 US 11183263 US 60592045 US 60647836	US 20130308089 A1 US 8905542 B2	11/21/2013 12/09/2014
US	14272632	1)Cheung, Kwok Wai, 2)Tong, Peter P., 3)Thomas, C. Douglass	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	05/08/2014	US 11452115 US 60689686 US 11006343 US 60527565 US 12798995 US 14272632	US 20140242956 A1 US 9204268 B2	08/28/2014 12/01/2015

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	14286976	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	05/23/2014	US 12987018 US 11497651 US 13593483 US 11006343 US 60527565 US 13363360 US 14286976 US 12074961	US 20140256293 A1 US 11019199 B2	09/11/2014 05/25/2021
US	14313989	1)HOWELL, THOMAS A., 2)CHAO, DAVID , 3)Thomas, C. Douglass, 4)Tong, Peter P.	EYEWEAR WITH RADIATION DETECTION SYSTEM	06/24/2014	US 14313989 US 60583169 US 12322377 US 11078855 US 10964011 US 10822218 US 60647826 US 11006343 US 60562798 US 60620238 US 60618107 US 60605191 US 11078857 US 60592045 US 60647836	US 20140361185 A1 US 9488520 B2	12/11/2014 11/08/2016
US	14557409	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED ELECTRONIC COMPONENTS	12/01/2014	US 60583169 US 11078855 US 11183269 US 11183276 US 10964011 US 13955336 US 10822218 US 13085402 US 11183256 US 14557409 US 60647826 US 11006343 US 60527565 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 60605191 US 11078857 US 11183263 US 60592045 US 60647836	US 20150085245 A1 US 9547184 B2	03/26/2015 01/17/2017

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US	14715501	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING ELECTRICAL COMPONENTS AND APPARATUS THEREFOR	05/18/2015	US 14715501 US 60583169 US 60725896 US 11078855 US 60787850 US 13367346 US 10822218 US 60647826 US 60527565 US 60605191 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 60725999 US 11183256 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 11078857 US 11183263	US 20150253590 A1 US 10330956 B2	09/10/2015 06/25/2019
US	14922344	1)Cheung, Kwok Wai, 2)Tong, Peter P., 3)Thomas, C. Douglass	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	10/26/2015	US 14922344 US 11006343 US 60527565 US 14272632 US 11452115 US 60689686 US 12798995	US 20160044474 A1 US 9736664 B2	02/11/2016 08/15/2017
US	15343472	1)HOWELL, THOMAS A., 2)CHAO, DAVID , 3)Thomas, C. Douglass, 4)Tong, Peter P.	EYEWEAR WITH RADIATION DETECTION SYSTEM	11/04/2016	US 14313989 US 60583169 US 12322377 US 11078855 US 10964011 US 10822218 US 60647826 US 15343472 US 11006343 US 60562798 US 60620238 US 60618107 US 60605191 US 11078857 US 60592045 US 60647836	US 20170074721 A1 US 10060790 B2	03/16/2017 08/28/2018

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	15375423	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED ELECTRONIC COMPONENTS	12/12/2016	US 60583169 US 11078855 US 10822218 US 13085402 US 60647826 US 60527565 US 15375423 US 60605191 US 60592045 US 60647836 US 11183269 US 11183276 US 10964011 US 13955336 US 11183256 US 14557409 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 11078857 US 11183263	US 20170090219 A1 US 10061144 B2	03/30/2017 08/28/2018
US	15396428			12/31/2016	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 11891411 US 15396428 US 60647826 US 60527565 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12806312 US 60725999 US 11183256 US 12317043 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 10462591 US 11078857 US 11183263	US 20170146829 A1	05/25/2017

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	15409723	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR HOUSING FOR CHARGING EMBEDDED BATTERY IN EYEWEAR FRAME	01/19/2017	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 11891411 US 60647826 US 15409723 US 60527565 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12806312 US 60725999 US 11183256 US 12317043 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 10462591 US 11078857 US 11183263	US 20170131575 A1	05/11/2017
US	15469440	1)Cheung, Kwok Wai, 2)Tong, Peter P., 3)Thomas, C. Douglass	METHOD AND APPARATUS TO MANAGE DIFFERENT OPTIONS OF COMMUNICATION USING ONE USER IDENTIFIER BASED ON INTERNET PROTOCOL	03/24/2017	US 14922344 US 11006343 US 60527565 US 14272632 US 15469440 US 11452115 US 60689686 US 12798995	US 20170201872 A1 US 10142810 B2	07/13/2017 11/27/2018
US	15704181	1)Cheung, Kwok Wai, 2)Tong, Peter P., 3)Thomas, C. Douglass	METHOD AND APPARATUS TO MANAGE MESSAGING PROVIDING DIFFERENT COMMUNICATION MODES DEPENDING ON ONE IDENTIFIER AND NOT REQUIRING AND NOT REQUIRING TO DISCLOSE CONTACT INFORMATION	09/14/2017	US 14922344 US 11006343 US 60527565 US 14272632 US 15469440 US 11452115 US 60689686 US 15704181 US 12798995	US 20180014169 A1 US 10492038 B2	01/11/2018 11/26/2019

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	16049120			07/30/2018	US 60583169 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20180335650 A1 US 11243416 B2	11/22/2018 02/08/2022
US	16102859			08/14/2018	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20180348050 A1 US 10359311 B2	12/06/2018 07/23/2019
US	16127957	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING ELECTRICAL COMPONENTS AND APPARATUS THEREFOR	09/11/2018	US 14715501 US 60583169 US 60725896 US 11183269 US 60787850 US 60846150 US 10964011 US 13367346 US 60725999 US 16127957 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60605191 US 12462286 US 60592045 US 60647836	US 20190033623 A1 US 11086147 B2	01/31/2019 08/10/2021

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	16182969	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR HOUSING FOR CHARGING EMBEDDED BATTERY IN EYEWEAR FRAME	11/07/2018	US 14715501 US 60583169 US 60725896 US 60787850 US 13367346 US 10822218 US 13085402 US 11891411 US 60647826 US 15409723 US 60527565 US 15375423 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 16182969 US 11183269 US 11183276 US 60846150 US 10964011 US 13955336 US 12806312 US 16049120 US 60725999 US 16127957 US 12317043 US 14557409 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 10462591	US 20190187492 A1 US 20210364827 A9	06/20/2019 11/25/2021
US	16424018			05/28/2019	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 60647826 US 60527565 US 16424018 US 60509631 US 60562798 US 60620238 US 60618107 US 13291020 US 60605191 US 13831419 US 60592045 US 60647836	US 20190278110 A1	09/12/2019

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	16426351	1)HOWELL, THOMAS A., 2)CHAO, DAVID , 3)Thomas, C. Douglass, 4)Tong, Peter P.	EYEWEAR WITH DETECTION SYSTEM	05/30/2019	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 16426351 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20190310132 A1 US 10539459 B2	10/10/2019 01/21/2020
US	16429181			06/03/2019	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 60647826 US 60527565 US 60509631 US 16429181 US 60562798 US 60620238 US 60618107 US 13831445 US 60605191 US 60592045 US 60647836	US 20190285913 A1	09/19/2019
US	16445452			06/19/2019	US 12987018 US 11497651 US 13593483 US 11006343 US 60527565 US 13363360 US 14286976 US 12074961 US 16445452	US 20190306304 A1	10/03/2019
US	16446710	1)Thomas, C. Douglass, 2)Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	06/20/2019	US 12987018 US 11497651 US 13593483 US 11006343 US 60527565 US 13363360 US 14286976 US 12074961 US 16446710	US 20190306305 A1	10/03/2019
US	16556205			08/29/2019	US 14922344 US 11006343 US 60527565 US 14272632 US 15469440 US 11452115 US 60689686 US 15704181 US 12798995 US 16556205	US 20190387371 A1 US 10708727 B2	12/19/2019 07/07/2020

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	16574254	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED AND TETHERED ELECTRONIC COMPONENTS	09/18/2019	US 60583169 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 16574254 US 60605191 US 60592045 US 60647836	US 20200012127 A1 US 11204512 B2	01/09/2020 12/21/2021
US	16703805			12/04/2019	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 16426351 US 16703805 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20200109986 A1 US 11326941 B2	04/09/2020 05/10/2022
US	16794458			02/19/2020	US 14922344 US 11006343 US 60527565 US 14272632 US 16794458 US 15469440 US 11452115 US 60689686 US 15704181 US 12798995 US 16556205	US 20200186975 A1	06/11/2020
US	16821810	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED ELECTRONIC COMPONENTS FOR AUDIO SUPPORT	03/17/2020	US 60583169 US 16821810 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 16574254 US 60605191 US 60592045 US 60647836	US 20200218094 A1	07/09/2020

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	17395509			08/06/2021	US 14715501 US 60583169 US 60725896 US 11183269 US 60787850 US 60846150 US 10964011 US 13367346 US 17395509 US 60725999 US 16127957 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60605191 US 12462286 US 60592045 US 60647836	US 20210364828 A1	11/25/2021
US	17484080			09/24/2021	US 17484080 US 60583169 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 16574254 US 60605191 US 60592045 US 60647836	US 20220011603 A1	01/13/2022
US	17681593	1)HOWELL, THOMAS A., 2)CHAO, DAVID , 3)Thomas, C. Douglass, 4)Tong, Peter P.	EYEWEAR WITH DETECTION SYSTEM	02/25/2022	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 16426351 US 16703805 US 17681593 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20220178743 A1	06/09/2022

IP Office	Application	Applicant	Title	Application Date	Priority Number	Publication Number	Publication Date
US	17737866	1)Howell, Thomas A., 2)Chao, David ,3)Thomas, C. Douglass,4)Tong, Peter P.	EYEWEAR HAVING REMOVABLE TEMPLES THAT SUPPORT ELECTRICAL COMPONENTS	05/05/2022	US 14715501 US 60725896 US 17737866 US 60787850 US 60846150 US 13367346 US 11580222 US 17395509 US 12462286 US 60725999 US 16127957	US 20220260859 A1	08/18/2022

PE2E SEARCH - Search History (Prior Art)

There are no Prior Art searches to show.

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N92	13136	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 08:41 AM
N93	121	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 08:41 AM
N94	107	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 08:41 AM
N95	103	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG")	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 08:41 AM

		near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND (communicat$4 near10 wireless$4) AND (audio OR speak$4) AND embed$4					
N96	82	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 08:41 AM
N97	63	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 08:41 AM

		AND second AND bridge					
N98	63	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 08:41 AM
N99	59	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 08:41 AM
N106	54	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 08:41 AM

		glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4 AND (ear WITH buds)					
N107	54	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4 AND (ear near5 buds)	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 08:41 AM
N115	35	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 09:11 AM
N116	24	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND (temple SAME (speakers WITH	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 09:12 AM

		audio))).clm.					
N117	9	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 09:12 AM
N119	5	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 10:09 AM
N120	5	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 10:09 AM
N121	4	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND (communicat$4 near10 wireless$4) AND (audio OR speak$4) AND embed$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 10:09 AM
N122	4	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 11:18 AM

		control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone).clm.					
N123	3	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND temple AND ((speaker$2 OR audio) SAME (sound WITH guid$4))).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 11:18 AM
N124	3	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 11:18 AM
N125	0	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 12:14 PM
N126	0	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND control$4	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 12:14 PM

		AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4).clm.					
N127	0	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND (electric$4 WITH control$4) AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 12:31 PM
N128	0	((eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND (electric$4 WITH control$4) AND (memor$4 OR stor$4) AND (batter$4 near10 rechargeable) AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/27 12:31 PM

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/873,104	07/25/2022	Thomas A. Howell	IPVCP003C10	2978

34071 7590 11/21/2022

IPVENTURE, INC.
4010 Moorpark Avenue
Suite 211
San Jose, CA 95117

EXAMINER	
LEI, JIE	

ART UNIT	PAPER NUMBER
2872	

MAIL DATE	DELIVERY MODE
11/21/2022	PAPER

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.

Applicant-Initiated Interview Summary	**Application No.** 17/873,104	**Applicant(s)** Howell et al.		
	Examiner JIE LEI	**Art Unit** 2872	**AIA (First Inventor to File) Status** No	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
JIE LEI	Primary Examiner	Telephonic
C. Douglass Thomas	Attorney	

Date of Interview: 17 November 2022

Issues Discussed:

35 U.S.C. 102

Examiner and Applicant's representative discussed proposed language to specify the claimed invention in independent claim 1. A proposed amendment is discussed. In order to overcome prior art rejection, examiner suggested that the amendment should include components for performing amended function/ process, pending further consideration and search.

/JIE LEI/ Primary Examiner, Art Unit 2872	

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

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 17/873,104	Filing Date 07/25/2022	☐ 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	12/01/2022	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 4	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 1	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.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/DAMALI AYANA BERRY/
*** 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.

Doc Code: A.NE.AFCP
Document Description: After Final Consideration Program Request

PTO/SB/434 (3-22)

CERTIFICATION AND REQUEST FOR CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0

Practitioner Docket No.:	Application No.:	Filing Date:
IPVCP003C10	17/873,104	July 25, 2022
First Named Inventor:	**Title:**	
HOWELL et al.	WEARABLE AUDIO SYSTEM SUPPORTING ENHANCED HEARING SUPPORT	

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS CONSIDERATION UNDER THE AFTER FINAL CONSIDERATION PILOT PROGRAM 2.0 (AFCP 2.0) OF THE ACCOMPANYING RESPONSE UNDER 37 CFR 1.116.

1. The above-identified application is (i) an original utility, plant, or design nonprovisional application filed under 35 U.S.C. 111(a) [a continuing application (*e.g.*, a continuation or divisional application) is filed under 35 U.S.C. 111(a) and is eligible under (i)], or (ii) an international application that has entered the national stage in compliance with 35 U.S.C. 371(c).
2. The above-identified application contains an outstanding final rejection.
3. Submitted herewith is a response under 37 CFR 1.116 to the outstanding final rejection. The response includes an amendment to at least one independent claim, and the amendment does not broaden the scope of the independent claim in any aspect.
4. This certification and request for consideration under AFCP 2.0 is the only AFCP 2.0 certification and request filed in response to the outstanding final rejection.
5. Applicant is willing and available to participate in any interview requested by the examiner concerning the present response.
6. This certification and request is being filed electronically using the USPTO's patent electronic filing system.
7. Any fees that would be necessary consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, extension of time fees, are being concurrently filed herewith. [There is no additional fee required to request consideration under AFCP 2.0.]
8. By filing this certification and request, applicant acknowledges the following:
    - Reissue applications and reexamination proceedings are not eligible to participate in AFCP 2.0.
    - The examiner will verify that the AFCP 2.0 submission is compliant, *i.e.*, that the requirements of the program have been met (see items 1 to 7 above). For compliant submissions:
        - The examiner will review the response under 37 CFR 1.116 to determine if additional search and/or consideration (i) is necessitated by the amendment and (ii) could be completed within the time allotted under AFCP 2.0. If additional search and/or consideration is required but cannot be completed within the allotted time, the examiner will process the submission consistent with current practice concerning responses after final rejection under 37 CFR 1.116, *e.g.*, by mailing an advisory action.
        - If the examiner determines that the amendment does not necessitate additional search and/or consideration, or if the examiner determines that additional search and/or consideration is required and could be completed within the allotted time, then the examiner will consider whether the amendment places the application in condition for allowance (after completing the additional search and/or consideration, if required). If the examiner determines that the amendment does not place the application in condition for allowance, then the examiner will contact the applicant and request an interview.
            - The interview will be conducted by the examiner, and if the examiner does not have negotiation authority, a primary examiner and/or supervisory patent examiner will also participate.
            - If the applicant declines the interview, or if the interview cannot be scheduled within ten (10) calendar days from the date that the examiner first contacts the applicant, then the examiner will proceed consistent with current practice concerning responses after final rejection under 37 CFR 1.116.

Signature	Date	Practitioner Registration No.
/C. Douglass Thomas/	November 30, 2022	32,947
Name (Print/Typed)	**Telephone Number**	
C. Douglass Thomas	650-903-9200, x103	

***Note**: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.*

☑ * Total of 1 forms are submitted.

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: HOWELL et al.

Attorney Docket No.: IPVCP003C10

Application No.: 17/873,104

Examiner: LEI, JIE

Filed: July 25, 2022

Group: 2872

Title: WEARABLE AUDIO SYSTEM SUPPORTING ENHANCED HEARING SUPPORT

AMENDMENT B TRANSMITTAL

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

Sir:

Transmitted herewith is an Amendment in the above-identified application.

The fee has been calculated as shown below.

	Claims After Amendment		Highest Previously Paid For	Present Extra	Small Entity Rate Fee	Large Entity Rate Fee
Total Claims	4	MINUS	20	00	x 50 =	x 100 =
Independent Claims	1	MINUS	3	00	x 240 =	x 480 =
Multiple Dependent Claim Present and Fee Not Previously Paid					$	$
				Total	$0.00	$

☐ Applicant(s) hereby petition for a _____- month extension(s) of time to respond to the aforementioned Office Action.

☒ Applicant(s) believe that no (additional) Extension of Time is required; however, if it is determined that such an extension is required, Applicant(s) hereby petition that such an extension be granted and authorize the Commissioner to charge the required fees for an Extension of Time under 37 CFR 1.136 to Deposit Account No. 50-3874 (Order No. IPVCP003C10).

☒ Any fees due are being paid electronically herewith.

☒ Please charge any additional fees required to facilitate filing the enclosed response, to Deposit Account No. 50-3874 (Order No. IPVCP003C10).

Respectfully submitted,

/C. Douglass Thomas/

C. Douglass Thomas
Reg. No. 32,947

Electronic Acknowledgement Receipt

EFS ID:	47117959
Application Number:	17873104
International Application Number:	
Confirmation Number:	2978
Title of Invention:	WEARABLE AUDIO SYSTEM SUPPORTING ENHANCED HEARING SUPPORT
First Named Inventor/Applicant Name:	Thomas A. Howell
Customer Number:	34071
Filer:	Peter P. Tong/Angela Nijim
Filer Authorized By:	Peter P. Tong
Attorney Docket Number:	IPVCP003C10
Receipt Date:	01-DEC-2022
Filing Date:	25-JUL-2022
Time Stamp:	12:06:41
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	After Final Consideration Program Request	IPVCP003C10_AfterFinalPilot_11-22.pdf	258972 2598377a104808cbfd289dfb5f2f64a453b67691	no	2

Warnings:

Information:					
2	Miscellaneous Incoming Letter	IPVCP003C10_AmdBTrans_11-22.pdf	17571 b064c51344f104adcd116e59dd31a08b61fabe90	no	1
Warnings:					
Information:					
3	Response After Final Action	IPVCP003C10_AmdB_AsFiled_11-22.pdf	37201 47c7e27159ed61974f059955cdc6b5c4fde60f64	no	6
Warnings:					
Information:					
		Total Files Size (in bytes):	313744		

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

In re application of: HOWELL et al.	Attorney Docket No.: IPVCP003C10
Application No.: 17/873,104	Examiner: LEI, JIE
Filed: July 25, 2022	Group: 2872
Title: WEARABLE AUDIO SYSTEM SUPPORTING ENHANCED HEARING SUPPORT	

AMENDMENT B

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

Dear Sir:

In response to the Office Action dated November 4, 2022, please amend the above-identified patent application as follows:

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

Remarks/Arguments begin on page 4 of this paper.

AMENDMENTS TO THE CLAIMS:

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

Listing of Claims:

1. (Currently Amended) A personal audio system operable to at least generate customized audio output, comprising:

a pair of ear buds, each configured to be placed in an ear of a user; and

a mobile communication device at least for supporting audio output, the mobile communication device configured to store at least a hearing profile associated with the user, the stored hearing profile associated with the user at least characterizes hearing impairment regarding the user's ability to hear, the mobile communication device configured to produce ~~producing~~ audio output signals customized for the user based on at least the stored hearing profile associated with the user such that the customized audio output signals are at least compensated for the hearing impairment regarding the user's ability to hear, the mobile communication device configured to produce the customized audio output signal using at least signal amplification, and the mobile communication device configured ~~configure~~ to transmit the customized audio output signals to the pair of ear buds,

wherein each of the ear buds is configured to receive at least a portion of the customized audio output signals transmitted by the mobile communication device, and

wherein each of the ear buds is configured to generate at least a portion of the customized audio output for the user in accordance with at least the portion of the customized audio output signals being received.

2. (Original) A personal audio system as recited in claim 1, wherein the mobile communication device is configured to establish the hearing profile for the user.

3. (Currently Amended) A personal audio system as recited in claim 2, wherein the hearing profile for the user is established by the mobile communication device

at least via generating audio tones and outputting such to one or more of the ear buds and receiving a user indication corresponding to the user's ability to hear ~~associated with~~ the generated audio tones.

4. (New) A personal audio system as recited in claim 1, wherein the signal amplification is frequency-dependent amplification.

REMARKS

In the Office Action, the Examiner rejected claims 1-3 under 35 USC §102(a). This rejection is fully traversed below.

Claim 1 has been amended to further clarify the subject matter regarded as the invention. New claim 4 has been added to the application. Claims 1-4 are pending. Reconsideration of the application is respectfully requested based on the following remarks.

PATENTABILITY OF CLAIMS 1-3

In the Office Action, the Examiner rejected claims 1-3 under 35 USC §102(a) as being anticipated by Swab et al., U.S. Patent Pub. No. 2004/0000733. Applicant respectfully disagrees. This rejection is fully traversed below.

Claim 1 pertains to a personal audio system operable to at least generate customized audio output. The personal audio system includes a pair of ear buds, each configured to be placed in an ear of a user; and a mobile communication device at least for supporting audio output. Claim 1 also specifies that "the mobile communication device configured to store at least a hearing profile associated with the user, the stored hearing profile associated with the user at least characterizes hearing impairment regarding the user's ability to hear, the mobile communication device configured to produce audio output signals customized for the user based on at least the stored hearing profile associated with the user such that the customized audio output signals are at least compensated for the hearing impairment regarding the user's ability to hear, the mobile communication device configured to produce the customized audio output signal using at least signal amplification, and the mobile communication device configured to transmit the customized audio output signals to the pair of ear buds …." The specification is replete with support for the amendments, see e.g., paragraphs [0028]-[0030]

While Swab et al. does support audio output, the audio output disclosed in Swab et al. is not customized to a user based on a stored hearing profile associated with the user. Hence, among other things, Swab et al. cannot teach or

suggest "a mobile communication device at least for supporting audio output, the mobile communication device configured to store at least a hearing profile associated with the user, the stored hearing profile associated with the user at least characterizes hearing impairment regarding the user's ability to hear, the mobile communication device configured to produce audio output signals customized for the user based on at least the stored hearing profile associated with the user such that the customized audio output signals are at least compensated for the hearing impairment regarding the user's ability to hear, the mobile communication device configured to produce the customized audio output signal using at least signal amplification, and the mobile communication device configured to transmit the customized audio output signals to the pair of ear buds …."

Based on the foregoing, it is submitted that claim 1 is patentably distinct from Swab et al. The additional limitations recited in claim 1 are not further discussed as the above-discussed limitations are clearly sufficient to distinguish the claimed invention from Swab et al. Additionally, it is submitted that claims 2-3 are patentably distinct from Swab et al. for at least one or more reasons similar to those noted above regarding claim 1.

Accordingly, it is respectfully requested that the Examiner withdraw the rejection of claims 1-3 under 35 USC § 102(a).

SUMMARY

It is submitted that claims 1-3 (as well as claim 4) are patentably distinct from the cited references and, therefore, the rejections under 35 USC §102(a) should be withdrawn. Reconsideration of the application and an early Notice of Allowance are earnestly solicited.

Applicant hereby petitions for an extension of time which may be required to maintain the pendency of this case, and any required fee for such extension or

any further fee required in connection with the filing of this Amendment is to be charged to Deposit Account No. 50-3874 (Order No. IPVCP003C10).

Respectfully submitted,

/C. Douglass Thomas/

C. Douglass Thomas
Reg. No. 32,947

(650) 903-9200, x103

Apple Inc. Exhibit 1002 Page 781

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

34071 7590 12/16/2022

IPVENTURE, INC.
4010 Moorpark Avenue
Suite 211
San Jose, CA 95117

EXAMINER
LEI, JIE

ART UNIT	PAPER NUMBER
2872	

DATE MAILED: 12/16/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/873,104	07/25/2022	Thomas A. Howell	IPVCP003C10	2978

TITLE OF INVENTION: WEARABLE AUDIO SYSTEM SUPPORTING ENHANCED HEARING SUPPORT

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	03/16/2023

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PTOL-85 (Rev. 02/11)

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

34071 7590 12/16/2022

IPVENTURE, INC.
4010 Moorpark Avenue
Suite 211
San Jose, CA 95117

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/873,104	07/25/2022	Thomas A. Howell	IPVCP003C10	2978

TITLE OF INVENTION: WEARABLE AUDIO SYSTEM SUPPORTING ENHANCED HEARING SUPPORT

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	03/16/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEI, JIE	2872	351-158000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1_____
2_____
3_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

Apple Inc. Exhibit 1002 Page 783

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/873,104	07/25/2022	Thomas A. Howell	IPVCP003C10	2978

34071 7590 12/16/2022

IPVENTURE, INC.
4010 Moorpark Avenue
Suite 211
San Jose, CA 95117

EXAMINER	
LEI, JIE	

ART UNIT	PAPER NUMBER
2872	

DATE MAILED: 12/16/2022

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 30 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. 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.

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.

Notice of Allowability	Application No. 17/873,104	Applicant(s) Howell et al.	
	Examiner JIE LEI	Art Unit 2872	AIA (FITF) Status No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to filing of 12/1/2022.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ 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.

3. ☑ The allowed claim(s) is/are 1-4 . As a result of the allowed claim(s), 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.**

4. ☐ 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)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☑ Other PTO 2323.

/JIE LEI/
Primary Examiner, Art Unit 2872

REASONS FOR ALLOWANCE

1. The present application is being examined under the pre-AIA first to invent provisions. This office action is in response to the amendment of 12/1/2022.

Allowable Subject Matter

3. Claims 1-4 are allowed.

4. The following is an examiner's statement of reasons for allowance: the prior art taken singularly or in combination fails to anticipate or fairly suggest the limitations of the independent claims, in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper.

In regard to independent claim 1, the closest prior art is US 20040000733 of Swab et al.

Regarding Claim 1, Swab teaches a personal audio system operable to at least generate customized audio output, comprising: a pair of ear buds, each configured to be placed in an ear of a user; and a mobile communication device at least for supporting audio output, the mobile communication device configured to store at least a hearing profile associated with the user, the mobile communication device producing audio output signals customized for the user based on at least the stored hearing profile associated with the user, and the mobile communication device configure to transmit the customized audio output signals to the pair of ear buds, wherein each of the ear

buds is configured to receive at least a portion of the customized audio output signals transmitted by the mobile communication device, and wherein each of the ear buds is configured to generate at least a portion of the customized audio output for the user in accordance with at least the portion of the customized audio output signals being received.

But Swab fails to teach that wherein the stored hearing profile associated with the user at least characterizes hearing impairment regarding the user's ability to hear, such that the customized audio output signals are at least compensated for the hearing impairment regarding the user's ability to hear, and the mobile communication device configured to produce the customized audio output signal using at least signal amplification.

The prior art taken either singly or in combination fails to anticipate or fairly suggest a personal audio system further comprising:

wherein the stored hearing profile associated with the user at least characterizes hearing impairment regarding the user's ability to hear, such that the customized audio output signals are at least compensated for the hearing impairment regarding the user's ability to hear, and the mobile communication device configured to produce the customized audio output signal using at least signal amplification,

as claimed; recited together in combination with the totality of particular features/limitations recited therein.

Claims 2-4 are also allowed due to their dependence on claim 1.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Jie Lei whose telephone number is (571) 272 7231. The examiner can normally be reached on Mon.-Thurs. 8:00 am to 5:30 pm.

If attempts to reach the examiner by the telephone are unsuccessful, the examiner's supervisor, Thomas Pham can be reached on (571) 272 3689.The Fax number for the organization where this application is assigned is (571) 273 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Services Representative or access to the automated information system, call 800-786-9199(In USA or Canada) or 571-272-1000.

/JIE LEI/
Primary Examiner, Art Unit 2872

AFCP 2.0 Decision	Application No.	Applicant(s)	
	17/873,104	Howell et al.	
	Examiner	Art Unit	AIA (FITF) Status
	JIE LEI	2872	No

This is in response to the After Final Consideration Pilot request filed 01 December 2022.

1. **Improper Request** – The AFCP 2.0 request is improper for the following reason(s) and the after final amendment submitted with the request will be treated under pre-pilot procedure.

   ☐ An AFCP 2.0 request form PTO/SB/434 (or equivalent document) was not submitted.

   ☐ A non-broadening amendment to at least one independent claim was not submitted.

   ☐ The request is not the first proper AFCP 2.0 request submitted in response to the most recent final rejection.

   ☐ Other: _____

2. **Proper Request**

   A. After final amendment submitted with the request will not be treated under AFCP 2.0.
   The after final amendment cannot be reviewed and a search conducted within the guidelines of the pilot program.

   ☐ The after final amendment will be treated under pre-pilot procedure.

   B. Updated search and/or completed additional consideration.
   The examiner performed an updated search and/or completed additional consideration of the after final amendment within the time authorized for the pilot program. The result(s) of the updated search and/or completed additional consideration are:

   ☑ 1. All of the rejections in the most recent final Office action are overcome and a Notice of Allowance is issued herewith.

   ☐ 2. The after final amendment would not overcome all of the rejections in the most recent final Office action . See attached interview summary for further details.

   ☐ 3. The after final amendment was reviewed, and it raises a new issue(s). See attached interview summary for further details.

   ☐ 4. The after final amendment raises new issues, but would overcome all of the rejections in the most recent final Office action. A decision on determining allowability could not be made within the guidelines of the pilot. See attached interview summary for further details, including any newly discovered prior art.

   ☐ 5. Other: _____

   Examiner Note: Please attach an interview summary when necessary as described above.

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,104	Howell et al.
	Examiner	**Art Unit**
	JIE LEI	2872

CPC							
Symbol						**Type**	**Version**
G02C	/	11	/	10		F	2013-01-01
G02C	/	5	/	001		I	2013-01-01
G02C	/	11	/	06		I	2013-01-01
G02C	/	5	/	14		I	2013-01-01

CPC Combination Sets								
Symbol						**Type**	**Set**	**Ranking**	**Version**
	/		/						

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	4	
/JIE LEI/ Primary Examiner, Art Unit 2872	06 December 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20221206

Apple Inc. Exhibit 1002 Page 792

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,104	Howell et al.
	Examiner	**Art Unit**
	JIE LEI	2872

INTERNATIONAL CLASSIFICATION					
CLAIMED					
G02C	/	11	/	00	
G02C	/	5	/	00	
G02C	/	11	/	06	
G02C	/	5	/	14	

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
351	158

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	4	
/JIE LEI/ Primary Examiner, Art Unit 2872	06 December 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20221206

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,104	Howell et al.
	Examiner	**Art Unit**
	JIE LEI	2872

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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1														
	2														
	3														
	4														

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	4	
/JIE LEI/ Primary Examiner, Art Unit 2872	06 December 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20221206

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,104	Howell et al.
	Examiner	Art Unit
	JIE LEI	2872

CPC - Searched*		
Symbol	**Date**	**Examiner**
G02C 1/00, 11/10, 11/06, 5/001, 5/02, 5/14, 5/22, 5/146	09/27/2022	JL
G02B 27/01, 27/017, 27/0176	09/27/2022	JL
update search	10/27/2022	JL
update search	12/06/2022	JL

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

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
351	158, 41, 111, 121,123,124	09/27/2022	JL
359	13, 629-633	09/27/2022	JL
381	381, 327, 328, 370, 380	09/27/2022	JL
	update search	10/27/2022	JL
	update search	12/06/2022	JL

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

/JIE LEI/ Primary Examiner, Art Unit 2872	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/873,104	Howell et al.
	Examiner	**Art Unit**
	JIE LEI	2872

Search Notes		
Search Notes	**Date**	**Examiner**
G02C 1/00, 11/10, 11/06, 5/001, 5/02, 5/14, 5/22, 5/146 class and text search	09/27/2022	JL
G02B 27/01, 27/017, 27/0176 class and text search	09/27/2022	JL
351/158, 41, 111, 121,123,124 class and text search	09/27/2022	JL
359/13, 629-633 class and text search	09/27/2022	JL
381/381, 327, 328, 370, 380 class and text search	09/27/2022	JL
Inventor name search	09/27/2022	JL
NPL and foreign search (google scholar, google patent, globaldossier and Dialog search)	09/27/2022	JL
PE2E text search	09/27/2022	JL
update search	10/27/2022	JL
update search	12/06/2022	JL
Similarity search	12/06/2022	JL

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	USPGPUB, USPAT	09/27/2022	JL
	update search	10/27/2022	JL
	update search	12/06/2022	JL

/JIE LEI/ Primary Examiner, Art Unit 2872	

Bibliographic Data

Application No: 17/873,104

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /JIE LEI/ (Examiner's Signature) | (Initials)

Title: WEARABLE AUDIO SYSTEM SUPPORTING ENHANCED HEARING SUPPORT

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/25/2022	351	2872	IPVCP003C10
RULE			

APPLICANTS

IngenioSpec, LLC, San Jose, CA,

INVENTORS

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David Chao, Saratoga, CA, UNITED STATES

C. Douglass Thomas, Saratoga, CA, UNITED STATES

Peter P. Tong, Mountain View, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 17484080 09/24/2021

17484080 is a CON of 16574254 09/18/2019 PAT 11204512

16574254 is a CON of 16049120 07/30/2018 PAT 11243416

16049120 is a CON of 15375423 12/12/2016 PAT 10061144

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13085402 is a CON of 11183269 07/15/2005 PAT 7922321

11183269 has PRO of 60647826 01/31/2005

11183269 has PRO of 60647836 01/31/2005

11183269 has PRO of 60620238 10/18/2004

11183269 has PRO of 60618107 10/12/2004

11183269 has PRO of 60605191 08/28/2004

11183269 has PRO of 60592045 07/28/2004

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

08/02/2022

STATE OR COUNTRY

UNITED STATES

ADDRESS

IPVENTURE, INC.
4010 Moorpark Avenue
Suite 211
San Jose, CA 95117
UNITED STATES

FILING FEE RECEIVED

$3,080

Web Search History

date, time	web site	search string
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date, time	web site	search string
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12/5/2022 4:49:19 PM	Google Scholar	light spectacle frame battery bulb frame

date, time	web site	search string
12/5/2022 4:49:19 PM	Google Patents	Keyword Group 1 [light] Keyword Group 2 [spectacle frame] Keyword Group 3 [battery] Keyword Group 4 [bulb] Keyword Group 5 [frame] Before Priority Date: priority:19490323
12/5/2022 4:49:26 PM	Google Scholar	(mount) (temple) (temples) (hinge) (ophthalmic)
12/5/2022 4:49:26 PM	Google Patents	Keyword Group 1 [(mount) (temple) (temples) (hinge) (ophthalmic)] Before Priority Date: priority:19550804
12/5/2022 4:49:27 PM	Google Scholar	mount temple temples hinge ophthalmic
12/5/2022 4:49:27 PM	Google Patents	Keyword Group 1 [mount] Keyword Group 2 [temple] Keyword Group 3 [temples] Keyword Group 4 [hinge] Keyword Group 5 [ophthalmic] Before Priority Date: priority:19550804
12/5/2022 4:49:33 PM	Google Scholar	(radiation) (crystal) (impedance) (spectral ranges) (exciter)
12/5/2022 4:49:33 PM	Google Patents	Keyword Group 1 [(radiation) (crystal) (impedance) (spectral ranges) (exciter)] Before Priority Date: priority:19531013
12/5/2022 4:49:34 PM	Google Scholar	radiation crystal impedance spectral ranges exciter

date, time	web site	search string
12/5/2022 4:49:34 PM	Google Patents	Keyword Group 1 [radiation] Keyword Group 2 [crystal] Keyword Group 3 [impedance] Keyword Group 4 [spectral ranges] Keyword Group 5 [exciter] Before Priority Date: priority:19531013
12/5/2022 4:49:40 PM	Google Scholar	(hearing aid) (ear) (frame) (spectacles) (parts)
12/5/2022 4:49:40 PM	Google Patents	Keyword Group 1 [(hearing aid) (ear) (frame) (spectacles) (parts)] Before Priority Date: priority:19530316
12/5/2022 4:49:42 PM	Google Scholar	hearing aid ear frame spectacles parts
12/5/2022 4:49:42 PM	Google Patents	Keyword Group 1 [hearing aid] Keyword Group 2 [ear] Keyword Group 3 [frame] Keyword Group 4 [spectacles] Keyword Group 5 [parts] Before Priority Date: priority:19530316
12/5/2022 4:49:52 PM	Google Scholar	(earphone) (seating) (hearing) (aid) (automatic self)
12/5/2022 4:49:52 PM	Google Patents	Keyword Group 1 [(earphone) (seating) (hearing) (aid) (automatic self)] Before Priority Date: priority:19541018
12/5/2022 4:49:53 PM	Google Scholar	earphone seating hearing aid automatic self

date, time	web site	search string
12/5/2022 4:49:53 PM	Google Patents	Keyword Group 1 [earphone] Keyword Group 2 [seating] Keyword Group 3 [hearing] Keyword Group 4 [aid] Keyword Group 5 [automatic self] Before Priority Date: priority:19541018
12/5/2022 4:49:59 PM	Google Scholar	(lamp) (recess) (frame) (recesses) (spectacles)
12/5/2022 4:49:59 PM	Google Patents	Keyword Group 1 [(lamp) (recess) (frame) (recesses) (spectacles)] Before Priority Date: priority:19570412
12/5/2022 4:50:01 PM	Google Scholar	lamp recess frame recesses spectacles
12/5/2022 4:50:01 PM	Google Patents	Keyword Group 1 [lamp] Keyword Group 2 [recess] Keyword Group 3 [frame] Keyword Group 4 [recesses] Keyword Group 5 [spectacles] Before Priority Date: priority:19570412
12/5/2022 4:50:07 PM	Google Scholar	(optical device) (lens) (illuminated optical) (frame) (bulbs)
12/5/2022 4:50:07 PM	Google Patents	Keyword Group 1 [(optical device) (lens) (illuminated optical) (frame) (bulbs)] Before Priority Date: priority:19590508
12/5/2022 4:50:09 PM	Google Scholar	optical device lens illuminated optical frame bulbs

date, time	web site	search string
12/5/2022 4:50:09 PM	Google Patents	**Keyword Group 1** [optical device] **Keyword Group 2** [lens] **Keyword Group 3** [illuminated optical] **Keyword Group 4** [frame] **Keyword Group 5** [bulbs] **Before** Priority Date: priority:19590508
12/5/2022 4:50:17 PM	Google Scholar	(spectacles) (ultraviolet) (pair) (bodies) (wearer)
12/5/2022 4:50:17 PM	Google Patents	**Keyword Group 1** [(spectacles) (ultraviolet) (pair) (bodies) (wearer)] **Before** Priority Date: priority:19691217
12/5/2022 4:50:18 PM	Google Scholar	spectacles ultraviolet pair bodies wearer
12/5/2022 4:50:18 PM	Google Patents	**Keyword Group 1** [spectacles] **Keyword Group 2** [ultraviolet] **Keyword Group 3** [pair] **Keyword Group 4** [bodies] **Keyword Group 5** [wearer] **Before** Priority Date: priority:19691217
12/5/2022 4:50:24 PM	Google Scholar	(output) (integrator) (sunburn) (switch) (solar radiation)
12/5/2022 4:50:24 PM	Google Patents	**Keyword Group 1** [(output) (integrator) (sunburn) (switch) (solar radiation)] **Before** Priority Date: priority:19690804
12/5/2022 4:50:26 PM	Google Scholar	output integrator sunburn switch solar radiation

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date, time	web site	search string
12/5/2022 4:50:26 PM	Google Patents	**Keyword Group 1** [output] **Keyword Group 2** [integrator] **Keyword Group 3** [sunburn] **Keyword Group 4** [switch] **Keyword Group 5** [solar radiation] **Before** Priority Date: priority:19690804
12/5/2022 5:19:37 PM	Google Scholar	(polarization direction) (images) (stereoscopic display) (vibration) (light)
12/5/2022 5:19:37 PM	Google Patents	**Keyword Group 1** [(polarization direction) (images) (stereoscopic display) (vibration) (light)] **Before** Priority Date: priority:19730511
12/5/2022 5:19:38 PM	Google Scholar	polarization direction images stereoscopic display vibration light
12/5/2022 5:19:38 PM	Google Patents	**Keyword Group 1** [polarization direction] **Keyword Group 2** [images] **Keyword Group 3** [stereoscopic display] **Keyword Group 4** [vibration] **Keyword Group 5** [light] **Before** Priority Date: priority:19730511
12/5/2022 5:19:46 PM	Google Scholar	(temple) (tip) (electrical) (members) (engageable)
12/5/2022 5:19:46 PM	Google Patents	**Keyword Group 1** [(temple) (tip) (electrical) (members) (engageable)] **Before** Priority Date: priority:19710318
12/5/2022 5:19:48 PM	Google Scholar	temple tip electrical members engageable

date, time	web site	search string
12/5/2022 5:19:48 PM	Google Patents	**Keyword Group 1** [temple] **Keyword Group 2** [tip] **Keyword Group 3** [electrical] **Keyword Group 4** [members] **Keyword Group 5** [engageable] **Before** Priority Date: priority:19710318
12/5/2022 5:19:54 PM	Google Scholar	(clip) (contacts) (frame) (reading aid) (pair)
12/5/2022 5:19:54 PM	Google Patents	**Keyword Group 1** [(clip) (contacts) (frame) (reading aid) (pair)] **Before** Priority Date: priority:19740430
12/5/2022 5:19:56 PM	Google Scholar	clip contacts frame reading aid pair
12/5/2022 5:19:56 PM	Google Patents	**Keyword Group 1** [clip] **Keyword Group 2** [contacts] **Keyword Group 3** [frame] **Keyword Group 4** [reading aid] **Keyword Group 5** [pair] **Before** Priority Date: priority:19740430
12/5/2022 5:20:02 PM	Google Scholar	(signal) (patrons) (audio) (output signal) (frequency)
12/5/2022 5:20:02 PM	Google Patents	**Keyword Group 1** [(signal) (patrons) (audio) (output signal) (frequency)] **Before** Priority Date: priority:19780410
12/5/2022 5:20:03 PM	Google Scholar	signal patrons audio output signal frequency

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date, time	web site	search string
12/5/2022 5:20:03 PM	Google Patents	Keyword Group 1 [signal] Keyword Group 2 [patrons] Keyword Group 3 [audio] Keyword Group 4 [output signal] Keyword Group 5 [frequency] Before Priority Date: priority:19780410
12/5/2022 5:20:17 PM	Google Scholar	(matrix) (led) (sequentially) (clock signal) (pair)
12/5/2022 5:20:17 PM	Google Patents	Keyword Group 1 [(matrix) (led) (sequentially) (clock signal) (pair)] Before Priority Date: priority:19781027
12/5/2022 5:20:19 PM	Google Scholar	matrix led sequentially clock signal pair
12/5/2022 5:20:19 PM	Google Patents	Keyword Group 1 [matrix] Keyword Group 2 [led] Keyword Group 3 [sequentially] Keyword Group 4 [clock signal] Keyword Group 5 [pair] Before Priority Date: priority:19781027
12/5/2022 5:20:26 PM	Google Scholar	(frame) (light emitting) (eyeglasses) (pair) (switch)
12/5/2022 5:20:26 PM	Google Patents	Keyword Group 1 [(frame) (light emitting) (eyeglasses) (pair) (switch)] Before Priority Date: priority:19791129
12/5/2022 5:20:27 PM	Google Scholar	frame light emitting eyeglasses pair switch

date, time	web site	search string
12/5/2022 5:20:27 PM	Google Patents	**Keyword Group 1** [frame] **Keyword Group 2** [light emitting] **Keyword Group 3** [eyeglasses] **Keyword Group 4** [pair] **Keyword Group 5** [switch] **Before** Priority Date: priority:19791129
12/5/2022 5:20:33 PM	Google Scholar	(clothing) (speaker) (article) (enclosure) (pin)
12/5/2022 5:20:33 PM	Google Patents	**Keyword Group 1** [(clothing) (speaker) (article) (enclosure) (pin)] **Before** Priority Date: priority:19800505
12/5/2022 5:20:35 PM	Google Scholar	clothing speaker article enclosure pin
12/5/2022 5:20:35 PM	Google Patents	**Keyword Group 1** [clothing] **Keyword Group 2** [speaker] **Keyword Group 3** [article] **Keyword Group 4** [enclosure] **Keyword Group 5** [pin] **Before** Priority Date: priority:19800505
12/5/2022 5:20:41 PM	Google Scholar	(cell) (subject) (ultraviolet light) (ultraviolet) (predetermined value)
12/5/2022 5:20:41 PM	Google Patents	**Keyword Group 1** [(cell) (subject) (ultraviolet light) (ultraviolet) (predetermined value)] **Before** Priority Date: priority:19781030
12/5/2022 5:20:42 PM	Google Scholar	cell subject ultraviolet light ultraviolet predetermined value

date, time	web site	search string
12/5/2022 5:20:42 PM	Google Patents	**Keyword Group 1** [cell] **Keyword Group 2** [subject] **Keyword Group 3** [ultraviolet light] **Keyword Group 4** [ultraviolet] **Keyword Group 5** [predetermined value] **Before** Priority Date: priority:19781030
12/5/2022 5:20:49 PM	Google Scholar	(radiation) (exposure) (color) (unit) (temperature)
12/5/2022 5:20:49 PM	Google Patents	**Keyword Group 1** [(radiation) (exposure) (color) (unit) (temperature)] **Before** Priority Date: priority:19790511
12/5/2022 5:20:50 PM	Google Scholar	radiation exposure color unit temperature
12/5/2022 5:20:50 PM	Google Patents	**Keyword Group 1** [radiation] **Keyword Group 2** [exposure] **Keyword Group 3** [color] **Keyword Group 4** [unit] **Keyword Group 5** [temperature] **Before** Priority Date: priority:19790511
12/5/2022 5:36:46 PM	Google Scholar	(display) (earphone) (spectacles) (radio receiving) (receiving circuit)
12/5/2022 5:36:46 PM	Google Patents	**Keyword Group 1** [(display) (earphone) (spectacles) (radio receiving) (receiving circuit)] **Before** Priority Date: priority:19811226
12/5/2022 5:36:47 PM	Google Scholar	display earphone spectacles radio receiving receiving circuit

date, time	web site	search string
12/5/2022 5:36:47 PM	Google Patents	Keyword Group 1 [display] Keyword Group 2 [earphone] Keyword Group 3 [spectacles] Keyword Group 4 [radio receiving] Keyword Group 5 [receiving circuit] Before Priority Date: priority:19811226
12/5/2022 5:36:52 PM	Google Scholar	(display) (spectacles) (temple) (battery) (liquid crystal)
12/5/2022 5:36:52 PM	Google Patents	Keyword Group 1 [(display) (spectacles) (temple) (battery) (liquid crystal)] Before Priority Date: priority:19811226
12/5/2022 5:36:53 PM	Google Scholar	display spectacles temple battery liquid crystal
12/5/2022 5:36:53 PM	Google Patents	Keyword Group 1 [display] Keyword Group 2 [spectacles] Keyword Group 3 [temple] Keyword Group 4 [battery] Keyword Group 5 [liquid crystal] Before Priority Date: priority:19811226
12/5/2022 5:37:00 PM	Google Scholar	(cell) (photodetector) (protective glasses) (generator) (glasses according)
12/5/2022 5:37:00 PM	Google Patents	Keyword Group 1 [(cell) (photodetector) (protective glasses) (generator) (glasses according)] Before Priority Date: priority:19820706
12/5/2022 5:37:01 PM	Google Scholar	cell photodetector protective glasses generator glasses according

date, time	web site	search string
12/5/2022 5:37:01 PM	Google Patents	Keyword Group 1 [cell] Keyword Group 2 [photodetector] Keyword Group 3 [protective glasses] Keyword Group 4 [generator] Keyword Group 5 [glasses according] Before Priority Date: priority:19820706
12/5/2022 5:37:07 PM	Google Scholar	(timer) (sports) (electronic) (recited) (timing function)
12/5/2022 5:37:07 PM	Google Patents	Keyword Group 1 [(timer) (sports) (electronic) (recited) (timing function)] Before Priority Date: priority:19831121
12/5/2022 5:37:08 PM	Google Scholar	timer sports electronic recited timing function
12/5/2022 5:37:08 PM	Google Patents	Keyword Group 1 [timer] Keyword Group 2 [sports] Keyword Group 3 [electronic] Keyword Group 4 [recited] Keyword Group 5 [timing function] Before Priority Date: priority:19831121
12/5/2022 5:41:46 PM	Google Scholar	(housing) (photocell) (key) (value) (user)
12/5/2022 5:41:46 PM	Google Patents	Keyword Group 1 [(housing) (photocell) (key) (value) (user)] Before Priority Date: priority:19830519
12/5/2022 5:41:47 PM	Google Scholar	housing photocell key value user

date, time	web site	search string
12/5/2022 5:41:47 PM	Google Patents	Keyword Group 1 [housing] Keyword Group 2 [photocell] Keyword Group 3 [key] Keyword Group 4 [value] Keyword Group 5 [user] Before Priority Date: priority:19830519
12/5/2022 5:41:53 PM	Google Scholar	(alarm) (microprocessor) (value) (output signal) (photocell)
12/5/2022 5:41:53 PM	Google Patents	Keyword Group 1 [(alarm) (microprocessor) (value) (output signal) (photocell)] Before Priority Date: priority:19830519
12/5/2022 5:41:55 PM	Google Scholar	alarm microprocessor value output signal photocell
12/5/2022 5:41:55 PM	Google Patents	Keyword Group 1 [alarm] Keyword Group 2 [microprocessor] Keyword Group 3 [value] Keyword Group 4 [output signal] Keyword Group 5 [photocell] Before Priority Date: priority:19830519
12/5/2022 5:42:00 PM	Google Scholar	(tubing) (transducer) (sound) (housing) (section)
12/5/2022 5:42:00 PM	Google Patents	Keyword Group 1 [(tubing) (transducer) (sound) (housing) (section)] Before Priority Date: priority:19850611
12/5/2022 5:42:01 PM	Google Scholar	tubing transducer sound housing section

date, time	web site	search string
12/5/2022 5:42:01 PM	Google Patents	Keyword Group 1 [tubing] Keyword Group 2 [transducer] Keyword Group 3 [sound] Keyword Group 4 [housing] Keyword Group 5 [section] Before Priority Date: priority:19850611
12/5/2022 5:42:10 PM	Google Scholar	(spectacles) (display) (time) (sunglasses) (light emitting)
12/5/2022 5:42:10 PM	Google Patents	Keyword Group 1 [(spectacles) (display) (time) (sunglasses) (light emitting)] Before Priority Date: priority:19870701
12/5/2022 5:42:11 PM	Google Scholar	spectacles display time sunglasses light emitting
12/5/2022 5:42:11 PM	Google Patents	Keyword Group 1 [spectacles] Keyword Group 2 [display] Keyword Group 3 [time] Keyword Group 4 [sunglasses] Keyword Group 5 [light emitting] Before Priority Date: priority:19870701
12/5/2022 5:42:20 PM	Google Scholar	(speedometer) (sportsman) (reflector) (speed) (waves)
12/5/2022 5:42:20 PM	Google Patents	Keyword Group 1 [(speedometer) (sportsman) (reflector) (speed) (waves)] Before Priority Date: priority:19860925
12/5/2022 5:42:21 PM	Google Scholar	speedometer sportsman reflector speed waves

date, time	web site	search string
12/5/2022 5:42:21 PM	Google Patents	**Keyword Group 1** [speedometer] **Keyword Group 2** [sportsman] **Keyword Group 3** [reflector] **Keyword Group 4** [speed] **Keyword Group 5** [waves] **Before** Priority Date: priority:19860925
12/5/2022 5:42:33 PM	Google Scholar	(microphone) (locating) (hearing) (disposed) (microphones)
12/5/2022 5:42:33 PM	Google Patents	**Keyword Group 1** [(microphone) (locating) (hearing) (disposed) (microphones)] **Before** Priority Date: priority:19851016
12/5/2022 5:42:34 PM	Google Scholar	microphone locating hearing disposed microphones
12/5/2022 5:42:34 PM	Google Patents	**Keyword Group 1** [microphone] **Keyword Group 2** [locating] **Keyword Group 3** [hearing] **Keyword Group 4** [disposed] **Keyword Group 5** [microphones] **Before** Priority Date: priority:19851016
12/5/2022 5:46:26 PM	Google Scholar	(spectacles) (glasses) (leg) (spectacle) (illumination)
12/5/2022 5:46:26 PM	Google Patents	**Keyword Group 1** [(spectacles) (glasses) (leg) (spectacle) (illumination)] **Before** Priority Date: priority:19880204
12/5/2022 5:46:27 PM	Google Scholar	spectacles glasses leg spectacle illumination

date, time	web site	search string
12/5/2022 5:46:27 PM	Google Patents	Keyword Group 1 [spectacles] Keyword Group 2 [glasses] Keyword Group 3 [leg] Keyword Group 4 [spectacle] Keyword Group 5 [illumination] Before Priority Date: priority:19880204
12/5/2022 5:46:33 PM	Google Scholar	(set forth) (apparatus set) (lens) (wearer) (display)
12/5/2022 5:46:33 PM	Google Patents	Keyword Group 1 [(set forth) (apparatus set) (lens) (wearer) (display)] Before Priority Date: priority:19870706
12/5/2022 5:46:34 PM	Google Scholar	set forth apparatus set lens wearer display
12/5/2022 5:46:34 PM	Google Patents	Keyword Group 1 [set forth] Keyword Group 2 [apparatus set] Keyword Group 3 [lens] Keyword Group 4 [wearer] Keyword Group 5 [display] Before Priority Date: priority:19870706
12/5/2022 5:46:40 PM	Google Scholar	(power supply) (supply means) (remote power) (spectacle) (illuminating)
12/5/2022 5:46:40 PM	Google Patents	Keyword Group 1 [(power supply) (supply means) (remote power) (spectacle) (illuminating)] Before Priority Date: priority:19880119
12/5/2022 5:46:41 PM	Google Scholar	power supply supply means remote power spectacle illuminating

date, time	web site	search string
12/5/2022 5:46:41 PM	Google Patents	Keyword Group 1 [power supply] Keyword Group 2 [supply means] Keyword Group 3 [remote power] Keyword Group 4 [spectacle] Keyword Group 5 [illuminating] Before Priority Date: priority:19880119
12/5/2022 5:46:49 PM	Google Scholar	(output) (oscillator) (spectacles) (reset switch) (light emitting)
12/5/2022 5:46:49 PM	Google Patents	Keyword Group 1 [(output) (oscillator) (spectacles) (reset switch) (light emitting)] Before Priority Date: priority:19880608
12/5/2022 5:46:50 PM	Google Scholar	output oscillator spectacles reset switch light emitting
12/5/2022 5:46:50 PM	Google Patents	Keyword Group 1 [output] Keyword Group 2 [oscillator] Keyword Group 3 [spectacles] Keyword Group 4 [reset switch] Keyword Group 5 [light emitting] Before Priority Date: priority:19880608
12/5/2022 5:46:57 PM	Google Scholar	(dosimeter) (radiation) (function) (signal) (magnitude)
12/5/2022 5:46:57 PM	Google Patents	Keyword Group 1 [(dosimeter) (radiation) (function) (signal) (magnitude)] Before Priority Date: priority:19851126
12/5/2022 5:46:59 PM	Google Scholar	dosimeter radiation function signal magnitude

date, time	web site	search string
12/5/2022 5:46:59 PM	Google Patents	**Keyword Group 1** [dosimeter] **Keyword Group 2** [radiation] **Keyword Group 3** [function] **Keyword Group 4** [signal] **Keyword Group 5** [magnitude] **Before** Priority Date: priority:19851126
12/5/2022 5:47:12 PM	Google Scholar	(temple) (sound) (combination according) (hearing) (wearer)
12/5/2022 5:47:12 PM	Google Patents	**Keyword Group 1** [(temple) (sound) (combination according) (hearing) (wearer)] **Before** Priority Date: priority:19840322
12/5/2022 5:47:13 PM	Google Scholar	temple sound combination according hearing wearer
12/5/2022 5:47:13 PM	Google Patents	**Keyword Group 1** [temple] **Keyword Group 2** [sound] **Keyword Group 3** [combination according] **Keyword Group 4** [hearing] **Keyword Group 5** [wearer] **Before** Priority Date: priority:19840322
12/5/2022 5:47:22 PM	Google Scholar	(light emitting) (light) (emitting part) (lens) (spectacle frame)
12/5/2022 5:47:22 PM	Google Patents	**Keyword Group 1** [(light emitting) (light) (emitting part) (lens) (spectacle frame)] **Before** Priority Date: priority:19890106
12/5/2022 5:47:24 PM	Google Scholar	light emitting light emitting part lens spectacle frame

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date, time	web site	search string
12/5/2022 5:47:24 PM	Google Patents	**Keyword Group 1** [light emitting] **Keyword Group 2** [light] **Keyword Group 3** [emitting part] **Keyword Group 4** [lens] **Keyword Group 5** [spectacle frame] **Before** Priority Date: priority:19890106
12/5/2022 5:47:31 PM	Google Scholar	(lens) (ski goggles) (resistive means) (goggles according) (solar cell)
12/5/2022 5:47:31 PM	Google Patents	**Keyword Group 1** [(lens) (ski goggles) (resistive means) (goggles according) (solar cell)] **Before** Priority Date: priority:19880530
12/5/2022 5:47:33 PM	Google Scholar	lens ski goggles resistive means goggles according solar cell
12/5/2022 5:47:33 PM	Google Patents	**Keyword Group 1** [lens] **Keyword Group 2** [ski goggles] **Keyword Group 3** [resistive means] **Keyword Group 4** [goggles according] **Keyword Group 5** [solar cell] **Before** Priority Date: priority:19880530
12/5/2022 5:47:50 PM	Google Scholar	(liquid crystal) (signal) (synchronization signal) (crystal cell) (drive signal)
12/5/2022 5:47:50 PM	Google Patents	**Keyword Group 1** [(liquid crystal) (signal) (synchronization signal) (crystal cell) (drive signal)] **Before** Priority Date: priority:19890731

date, time	web site	search string
12/5/2022 5:47:51 PM	Google Scholar	liquid crystal signal synchronization signal crystal cell drive signal
12/5/2022 5:47:51 PM	Google Patents	Keyword Group 1 [liquid crystal] Keyword Group 2 [signal] Keyword Group 3 [synchronization signal] Keyword Group 4 [crystal cell] Keyword Group 5 [drive signal] Before Priority Date: priority:19890731

Web Search History

date, time	web site	search string
12/6/2022 8:02:20 AM	Google Scholar	(eyewear) (temple) (temples) (frame) (transceiver)
12/6/2022 8:02:20 AM	Google Patents	**Keyword Group 1** [(eyewear) (temple) (temples) (frame) (transceiver)] **Before** Priority Date: priority:20010430
12/6/2022 8:02:22 AM	Google Scholar	eyewear temple temples frame transceiver
12/6/2022 8:02:31 AM	Google Scholar	(speaker) (audio device) (audio) (wearable wireless) (wireless audio)
12/6/2022 8:02:31 AM	Google Patents	**Keyword Group 1** [(speaker) (audio device) (audio) (wearable wireless) (wireless audio)] **Before** Priority Date: priority:20000602
12/6/2022 8:02:32 AM	Google Scholar	speaker audio device audio wearable wireless wireless audio
12/6/2022 8:02:32 AM	Google Patents	**Keyword Group 1** [speaker] **Keyword Group 2** [audio device] **Keyword Group 3** [audio] **Keyword Group 4** [wearable wireless] **Keyword Group 5** [wireless audio] **Before** Priority Date: priority:20000602
12/6/2022 8:02:41 AM	Google Scholar	(eyeglass) (interface system) (camera) (audio) (integrated circuits)
12/6/2022 8:02:41 AM	Google Patents	**Keyword Group 1** [(eyeglass) (interface system) (camera) (audio) (integrated circuits)] **Before** Priority Date: priority:19971030

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date, time	web site	search string
12/6/2022 8:02:42 AM	Google Scholar	eyeglass interface system camera audio integrated circuits
12/6/2022 8:02:42 AM	Google Patents	Keyword Group 1 [eyeglass] Keyword Group 2 [interface system] Keyword Group 3 [camera] Keyword Group 4 [audio] Keyword Group 5 [integrated circuits] Before Priority Date: priority:19971030
12/6/2022 8:02:46 AM	Google Patents	Keyword Group 1 [eyewear] Keyword Group 2 [temple] Keyword Group 3 [temples] Keyword Group 4 [frame] Keyword Group 5 [transceiver] Before Priority Date: priority:20010430
12/6/2022 8:03:10 AM	Google Scholar	(mount) (temple) (temples) (hinge) (ophthalmic)
12/6/2022 8:03:10 AM	Google Patents	Keyword Group 1 [(mount) (temple) (temples) (hinge) (ophthalmic)] Before Priority Date: priority:19550804
12/6/2022 8:03:28 AM	Google Scholar	(temple) (tube) (solid) (cavities) (injection)
12/6/2022 8:03:28 AM	Google Patents	Keyword Group 1 [(temple) (tube) (solid) (cavities) (injection)] Before Priority Date: priority:19720922
12/6/2022 8:03:29 AM	Google Scholar	temple tube solid cavities injection

date, time	web site	search string
12/6/2022 8:03:29 AM	Google Patents	**Keyword Group 1** [temple] **Keyword Group 2** [tube] **Keyword Group 3** [solid] **Keyword Group 4** [cavities] **Keyword Group 5** [injection] **Before** Priority Date: priority:19720922
12/6/2022 8:03:36 AM	Google Scholar	(mold) (rigid) (liquid resin) (resin system) (flexible)
12/6/2022 8:03:36 AM	Google Patents	**Keyword Group 1** [(mold) (rigid) (liquid resin) (resin system) (flexible)] **Before** Priority Date: priority:19781027
12/6/2022 8:03:37 AM	Google Scholar	mold rigid liquid resin resin system flexible
12/6/2022 8:03:37 AM	Google Patents	**Keyword Group 1** [mold] **Keyword Group 2** [rigid] **Keyword Group 3** [liquid resin] **Keyword Group 4** [resin system] **Keyword Group 5** [flexible] **Before** Priority Date: priority:19781027
12/6/2022 8:03:45 AM	Google Scholar	(temple) (swimmer) (temple pieces) (eyepieces) (pieces)
12/6/2022 8:03:45 AM	Google Patents	**Keyword Group 1** [(temple) (swimmer) (temple pieces) (eyepieces) (pieces)] **Before** Priority Date: priority:19930818
12/6/2022 8:03:46 AM	Google Scholar	temple swimmer temple pieces eyepieces pieces

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date, time	web site	search string
12/6/2022 8:03:46 AM	Google Patents	**Keyword Group 1** [temple] **Keyword Group 2** [swimmer] **Keyword Group 3** [temple pieces] **Keyword Group 4** [eyepieces] **Keyword Group 5** [pieces] **Before** Priority Date: priority:19930818
12/6/2022 8:03:51 AM	Google Scholar	(connectors) (frame body) (lens) (end portions) (section)
12/6/2022 8:03:51 AM	Google Patents	**Keyword Group 1** [(connectors) (frame body) (lens) (end portions) (section)] **Before** Priority Date: priority:19951113
12/6/2022 8:03:52 AM	Google Scholar	connectors frame body lens end portions section
12/6/2022 8:03:52 AM	Google Patents	**Keyword Group 1** [connectors] **Keyword Group 2** [frame body] **Keyword Group 3** [lens] **Keyword Group 4** [end portions] **Keyword Group 5** [section] **Before** Priority Date: priority:19951113
12/6/2022 8:32:23 AM	Google Scholar	(frame) (temple) (hinge) (ear stem) (attached)
12/6/2022 8:32:23 AM	Google Patents	**Keyword Group 1** [(frame) (temple) (hinge) (ear stem) (attached)] **Before** Priority Date: priority:19960311
12/6/2022 8:32:24 AM	Google Scholar	frame temple hinge ear stem attached

date, time	web site	search string
12/6/2022 8:32:24 AM	Google Patents	**Keyword Group 1** [frame] **Keyword Group 2** [temple] **Keyword Group 3** [hinge] **Keyword Group 4** [ear stem] **Keyword Group 5** [attached] **Before** Priority Date: priority:19960311
12/6/2022 8:32:31 AM	Google Scholar	(wearer) (assembly) (speaker) (structured) (disposed)
12/6/2022 8:32:31 AM	Google Patents	**Keyword Group 1** [(wearer) (assembly) (speaker) (structured) (disposed)] **Before** Priority Date: priority:19960906
12/6/2022 8:32:32 AM	Google Scholar	wearer assembly speaker structured disposed
12/6/2022 8:32:32 AM	Google Patents	**Keyword Group 1** [wearer] **Keyword Group 2** [assembly] **Keyword Group 3** [speaker] **Keyword Group 4** [structured] **Keyword Group 5** [disposed] **Before** Priority Date: priority:19960906
12/6/2022 8:32:42 AM	Google Scholar	(eyeglasses) (earpieces) (receiver portion) (transmitter) (radio frequency)
12/6/2022 8:32:42 AM	Google Patents	**Keyword Group 1** [(eyeglasses) (earpieces) (receiver portion) (transmitter) (radio frequency)] **Before** Priority Date: priority:19980615
12/6/2022 8:32:43 AM	Google Scholar	eyeglasses earpieces receiver portion transmitter radio frequency

date, time	web site	search string
12/6/2022 8:32:43 AM	Google Patents	**Keyword Group 1** [eyeglasses] **Keyword Group 2** [earpieces] **Keyword Group 3** [receiver portion] **Keyword Group 4** [transmitter] **Keyword Group 5** [radio frequency] **Before** Priority Date: priority:19980615
12/6/2022 8:32:49 AM	Google Scholar	(assembly) (speaker) (structured) (recited) (industrial safety)
12/6/2022 8:32:49 AM	Google Patents	**Keyword Group 1** [(assembly) (speaker) (structured) (recited) (industrial safety)] **Before** Priority Date: priority:19960906
12/6/2022 8:32:50 AM	Google Scholar	assembly speaker structured recited industrial safety
12/6/2022 8:32:50 AM	Google Patents	**Keyword Group 1** [assembly] **Keyword Group 2** [speaker] **Keyword Group 3** [structured] **Keyword Group 4** [recited] **Keyword Group 5** [industrial safety] **Before** Priority Date: priority:19960906
12/6/2022 8:32:56 AM	Google Scholar	(interface system) (eyeglass) (assembly) (audio) (lens)
12/6/2022 8:32:56 AM	Google Patents	**Keyword Group 1** [(interface system) (eyeglass) (assembly) (audio) (lens)] **Before** Priority Date: priority:19971030
12/6/2022 8:32:58 AM	Google Scholar	interface system eyeglass assembly audio lens

date, time	web site	search string
12/6/2022 8:32:58 AM	Google Patents	**Keyword Group 1** [interface system] **Keyword Group 2** [eyeglass] **Keyword Group 3** [assembly] **Keyword Group 4** [audio] **Keyword Group 5** [lens] **Before** Priority Date: priority:19971030
12/6/2022 8:33:04 AM	Google Scholar	(pivot pin) (eyeglass) (tang) (clevis) (extending)
12/6/2022 8:33:04 AM	Google Patents	**Keyword Group 1** [(pivot pin) (eyeglass) (tang) (clevis) (extending)] **Before** Priority Date: priority:19981215
12/6/2022 8:33:05 AM	Google Scholar	pivot pin eyeglass tang clevis extending
12/6/2022 8:33:05 AM	Google Patents	**Keyword Group 1** [pivot pin] **Keyword Group 2** [eyeglass] **Keyword Group 3** [tang] **Keyword Group 4** [clevis] **Keyword Group 5** [extending] **Before** Priority Date: priority:19981215
12/6/2022 8:33:12 AM	Google Scholar	(pivot pin) (wire) (hinge) (tang) (pin portions)
12/6/2022 8:33:12 AM	Google Patents	**Keyword Group 1** [(pivot pin) (wire) (hinge) (tang) (pin portions)] **Before** Priority Date: priority:19991112
12/6/2022 8:33:13 AM	Google Scholar	pivot pin wire hinge tang pin portions

date, time	web site	search string
12/6/2022 8:33:13 AM	Google Patents	**Keyword Group 1** [pivot pin] **Keyword Group 2** [wire] **Keyword Group 3** [hinge] **Keyword Group 4** [tang] **Keyword Group 5** [pin portions] **Before** Priority Date: priority:19991112
12/6/2022 8:33:20 AM	Google Scholar	(audio signal) (audio) (volume) (signal) (voice)
12/6/2022 8:33:20 AM	Google Patents	**Keyword Group 1** [(audio signal) (audio) (volume) (signal) (voice)] **Before** Priority Date: priority:20000204
12/6/2022 8:33:21 AM	Google Scholar	audio signal audio volume signal voice
12/6/2022 8:33:21 AM	Google Patents	**Keyword Group 1** [audio signal] **Keyword Group 2** [audio] **Keyword Group 3** [volume] **Keyword Group 4** [signal] **Keyword Group 5** [voice] **Before** Priority Date: priority:20000204
12/6/2022 8:33:41 AM	Google Scholar	(receiver) (lens frame) (eyeglasses) (temple piece) (electrical)
12/6/2022 8:33:41 AM	Google Patents	**Keyword Group 1** [(receiver) (lens frame) (eyeglasses) (temple piece) (electrical)] **Before** Priority Date: priority:20011018
12/6/2022 8:33:43 AM	Google Scholar	receiver lens frame eyeglasses temple piece electrical

date, time	web site	search string
12/6/2022 8:33:43 AM	Google Patents	**Keyword Group 1** [receiver] **Keyword Group 2** [lens frame] **Keyword Group 3** [eyeglasses] **Keyword Group 4** [temple piece] **Keyword Group 5** [electrical] **Before** Priority Date: priority:20011018
12/6/2022 9:02:05 AM	Google Scholar	(hearing aid) (temples) (temple) (circuit) (recess)
12/6/2022 9:02:05 AM	Google Patents	**Keyword Group 1** [(hearing aid) (temples) (temple) (circuit) (recess)] **Before** Priority Date: priority:19551208
12/6/2022 9:02:06 AM	Google Scholar	hearing aid temples temple circuit recess
12/6/2022 9:02:06 AM	Google Patents	**Keyword Group 1** [hearing aid] **Keyword Group 2** [temples] **Keyword Group 3** [temple] **Keyword Group 4** [circuit] **Keyword Group 5** [recess] **Before** Priority Date: priority:19551208
12/6/2022 9:02:12 AM	Google Scholar	(hearing aid) (temple) (temples) (microphone) (housing)
12/6/2022 9:02:12 AM	Google Patents	**Keyword Group 1** [(hearing aid) (temple) (temples) (microphone) (housing)] **Before** Priority Date: priority:19570225
12/6/2022 9:02:13 AM	Google Scholar	hearing aid temple temples microphone housing

date, time	web site	search string
12/6/2022 9:02:13 AM	Google Patents	**Keyword Group 1** [hearing aid] **Keyword Group 2** [temple] **Keyword Group 3** [temples] **Keyword Group 4** [microphone] **Keyword Group 5** [housing] **Before** Priority Date: priority:19570225
12/6/2022 9:02:18 AM	Google Scholar	(guide) (carrier) (carrier body) (guide channel) (carrier unit)
12/6/2022 9:02:18 AM	Google Patents	**Keyword Group 1** [(guide) (carrier) (carrier body) (guide channel) (carrier unit)] **Before** Priority Date: priority:19650712
12/6/2022 9:02:19 AM	Google Scholar	guide carrier carrier body guide channel carrier unit
12/6/2022 9:02:19 AM	Google Patents	**Keyword Group 1** [guide] **Keyword Group 2** [carrier] **Keyword Group 3** [carrier body] **Keyword Group 4** [guide channel] **Keyword Group 5** [carrier unit] **Before** Priority Date: priority:19650712
12/6/2022 9:02:25 AM	Google Scholar	(hinge) (bar) (plunger) (temple) (hinge pin)
12/6/2022 9:02:25 AM	Google Patents	**Keyword Group 1** [(hinge) (bar) (plunger) (temple) (hinge pin)] **Before** Priority Date: priority:19661209
12/6/2022 9:02:26 AM	Google Scholar	hinge bar plunger temple hinge pin

date, time	web site	search string
12/6/2022 9:02:26 AM	Google Patents	**Keyword Group 1** [hinge] **Keyword Group 2** [bar] **Keyword Group 3** [plunger] **Keyword Group 4** [temple] **Keyword Group 5** [hinge pin] **Before** Priority Date: priority:19661209
12/6/2022 9:02:33 AM	Google Scholar	(frame) (temple bar) (temple) (section) (hinge)
12/6/2022 9:02:33 AM	Google Patents	**Keyword Group 1** [(frame) (temple bar) (temple) (section) (hinge)] **Before** Priority Date: priority:19730116
12/6/2022 9:02:34 AM	Google Scholar	frame temple bar temple section hinge
12/6/2022 9:02:34 AM	Google Patents	**Keyword Group 1** [frame] **Keyword Group 2** [temple bar] **Keyword Group 3** [temple] **Keyword Group 4** [section] **Keyword Group 5** [hinge] **Before** Priority Date: priority:19730116
12/6/2022 9:02:40 AM	Google Scholar	(frame) (light emitting) (eyeglasses) (pair) (switch)
12/6/2022 9:02:40 AM	Google Patents	**Keyword Group 1** [(frame) (light emitting) (eyeglasses) (pair) (switch)] **Before** Priority Date: priority:19791129
12/6/2022 9:02:41 AM	Google Scholar	frame light emitting eyeglasses pair switch

date, time	web site	search string
12/6/2022 9:02:41 AM	Google Patents	**Keyword Group 1** [frame] **Keyword Group 2** [light emitting] **Keyword Group 3** [eyeglasses] **Keyword Group 4** [pair] **Keyword Group 5** [switch] **Before** Priority Date: priority:19791129
12/6/2022 9:02:47 AM	Google Scholar	(user) (display) (video) (computer) (head mounted)
12/6/2022 9:02:47 AM	Google Patents	**Keyword Group 1** [(user) (display) (video) (computer) (head mounted)] **Before** Priority Date: priority:19841114
12/6/2022 9:02:48 AM	Google Scholar	user display video computer head mounted
12/6/2022 9:02:48 AM	Google Patents	**Keyword Group 1** [user] **Keyword Group 2** [display] **Keyword Group 3** [video] **Keyword Group 4** [computer] **Keyword Group 5** [head mounted] **Before** Priority Date: priority:19841114
12/6/2022 9:02:54 AM	Google Scholar	(images) (vehicle) (data) (information) (occupant)
12/6/2022 9:02:54 AM	Google Patents	**Keyword Group 1** [(images) (vehicle) (data) (information) (occupant)] **Before** Priority Date: priority:20020903
12/6/2022 9:02:55 AM	Google Scholar	images vehicle data information occupant

date, time	web site	search string
12/6/2022 9:02:55 AM	Google Patents	Keyword Group 1 [images] Keyword Group 2 [vehicle] Keyword Group 3 [data] Keyword Group 4 [information] Keyword Group 5 [occupant] Before Priority Date: priority:20020903
12/6/2022 10:03:03 AM	Google Scholar	(internet) (kiosk) (consumer) (product) (enabled)
12/6/2022 10:03:03 AM	Google Patents	Keyword Group 1 [(internet) (kiosk) (consumer) (product) (enabled)] Before Priority Date: priority:19961025
12/6/2022 10:03:04 AM	Google Scholar	internet kiosk consumer product enabled
12/6/2022 10:03:04 AM	Google Patents	Keyword Group 1 [internet] Keyword Group 2 [kiosk] Keyword Group 3 [consumer] Keyword Group 4 [product] Keyword Group 5 [enabled] Before Priority Date: priority:19961025
12/6/2022 10:03:18 AM	Google Scholar	(service) (url) (product) (kiosk) (internet)
12/6/2022 10:03:18 AM	Google Patents	Keyword Group 1 [(service) (url) (product) (kiosk) (internet)] Before Priority Date: priority:19990421
12/6/2022 10:03:19 AM	Google Scholar	service url product kiosk internet

date, time	web site	search string
12/6/2022 10:03:19 AM	Google Patents	Keyword Group 1 [service] Keyword Group 2 [url] Keyword Group 3 [product] Keyword Group 4 [kiosk] Keyword Group 5 [internet] Before Priority Date: priority:19990421
12/6/2022 10:03:26 AM	Google Scholar	(product) (internet) (information) (web) (consumer)
12/6/2022 10:03:26 AM	Google Patents	Keyword Group 1 [(product) (internet) (information) (web) (consumer)] Before Priority Date: priority:19961025
12/6/2022 10:03:28 AM	Google Scholar	product internet information web consumer
12/6/2022 10:03:28 AM	Google Patents	Keyword Group 1 [product] Keyword Group 2 [internet] Keyword Group 3 [information] Keyword Group 4 [web] Keyword Group 5 [consumer] Before Priority Date: priority:19961025
12/6/2022 10:03:38 AM	Google Scholar	(product) (consumer product) (web) (kiosk) (consumer)
12/6/2022 10:03:38 AM	Google Patents	Keyword Group 1 [(product) (consumer product) (web) (kiosk) (consumer)] Before Priority Date: priority:19961025
12/6/2022 10:03:39 AM	Google Scholar	product consumer product web kiosk consumer

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date, time	web site	search string
12/6/2022 10:03:39 AM	Google Patents	**Keyword Group 1** [product] **Keyword Group 2** [consumer product] **Keyword Group 3** [web] **Keyword Group 4** [kiosk] **Keyword Group 5** [consumer] **Before** Priority Date: priority:19961025
12/6/2022 10:03:51 AM	Google Scholar	(internet) (product) (kiosk) (upn) (consumer)
12/6/2022 10:03:51 AM	Google Patents	**Keyword Group 1** [(internet) (product) (kiosk) (upn) (consumer)] **Before** Priority Date: priority:19961025
12/6/2022 10:03:53 AM	Google Scholar	internet product kiosk upn consumer
12/6/2022 10:03:53 AM	Google Patents	**Keyword Group 1** [internet] **Keyword Group 2** [product] **Keyword Group 3** [kiosk] **Keyword Group 4** [upn] **Keyword Group 5** [consumer] **Before** Priority Date: priority:19961025
12/6/2022 10:04:00 AM	Google Scholar	(frame) (laminates) (spectacles) (wood) (frames)
12/6/2022 10:04:00 AM	Google Patents	**Keyword Group 1** [(frame) (laminates) (spectacles) (wood) (frames)] **Before** Priority Date: priority:19940915
12/6/2022 10:04:01 AM	Google Scholar	frame laminates spectacles wood frames

date, time	web site	search string
12/6/2022 10:04:01 AM	Google Patents	**Keyword Group 1** [frame] **Keyword Group 2** [laminates] **Keyword Group 3** [spectacles] **Keyword Group 4** [wood] **Keyword Group 5** [frames] **Before** Priority Date: priority:19940915
12/6/2022 10:04:07 AM	Google Scholar	(unit) (signal) (distance) (reference signal) (transmitter)
12/6/2022 10:04:07 AM	Google Patents	**Keyword Group 1** [(unit) (signal) (distance) (reference signal) (transmitter)] **Before** Priority Date: priority:19941213
12/6/2022 10:04:11 AM	Google Scholar	unit signal distance reference signal transmitter
12/6/2022 10:04:11 AM	Google Patents	**Keyword Group 1** [unit] **Keyword Group 2** [signal] **Keyword Group 3** [distance] **Keyword Group 4** [reference signal] **Keyword Group 5** [transmitter] **Before** Priority Date: priority:19941213
12/6/2022 10:04:18 AM	Google Scholar	(indicator) (physiological state) (blood pulse) (pulse wave) (time)
12/6/2022 10:04:18 AM	Google Patents	**Keyword Group 1** [(indicator) (physiological state) (blood pulse) (pulse wave) (time)] **Before** Priority Date: priority:19950512
12/6/2022 10:04:19 AM	Google Scholar	indicator physiological state blood pulse pulse wave time

date, time	web site	search string
12/6/2022 10:04:19 AM	Google Patents	**Keyword Group 1** [indicator] **Keyword Group 2** [physiological state] **Keyword Group 3** [blood pulse] **Keyword Group 4** [pulse wave] **Keyword Group 5** [time] **Before** Priority Date: priority:19950512
12/6/2022 10:27:05 AM	Google Scholar	(audio) (audio device) (signal) (transceiver) (user)
12/6/2022 10:27:05 AM	Google Patents	**Keyword Group 1** [(audio) (audio device) (signal) (transceiver) (user)] **Before** Priority Date: priority:20020726
12/6/2022 10:27:06 AM	Google Scholar	audio audio device signal transceiver user
12/6/2022 10:27:06 AM	Google Patents	**Keyword Group 1** [audio] **Keyword Group 2** [audio device] **Keyword Group 3** [signal] **Keyword Group 4** [transceiver] **Keyword Group 5** [user] **Before** Priority Date: priority:20020726
12/6/2022 10:27:12 AM	Google Scholar	(support) (wearer) (eyeglass) (frame) (audio)
12/6/2022 10:27:12 AM	Google Patents	**Keyword Group 1** [(support) (wearer) (eyeglass) (frame) (audio)] **Before** Priority Date: priority:20000602
12/6/2022 10:27:14 AM	Google Scholar	support wearer eyeglass frame audio

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date, time	web site	search string
12/6/2022 10:27:14 AM	Google Patents	**Keyword Group 1** [support] **Keyword Group 2** [wearer] **Keyword Group 3** [eyeglass] **Keyword Group 4** [frame] **Keyword Group 5** [audio] **Before** Priority Date: priority:20000602
12/6/2022 10:27:20 AM	Google Scholar	(eyewear) (frame) (temple) (radio frequency) (frequency transceiver)
12/6/2022 10:27:20 AM	Google Patents	**Keyword Group 1** [(eyewear) (frame) (temple) (radio frequency) (frequency transceiver)] **Before** Priority Date: priority:20010430
12/6/2022 10:27:21 AM	Google Scholar	eyewear frame temple radio frequency frequency transceiver
12/6/2022 10:27:21 AM	Google Patents	**Keyword Group 1** [eyewear] **Keyword Group 2** [frame] **Keyword Group 3** [temple] **Keyword Group 4** [radio frequency] **Keyword Group 5** [frequency transceiver] **Before** Priority Date: priority:20010430
12/6/2022 10:27:28 AM	Google Scholar	(cord) (eyeglass) (tethered) (electrical) (recited)
12/6/2022 10:27:28 AM	Google Patents	**Keyword Group 1** [(cord) (eyeglass) (tethered) (electrical) (recited)] **Before** Priority Date: priority:20030415
12/6/2022 10:27:29 AM	Google Scholar	cord eyeglass tethered electrical recited

date, time	web site	search string
12/6/2022 10:27:29 AM	Google Patents	**Keyword Group 1** [cord] **Keyword Group 2** [eyeglass] **Keyword Group 3** [tethered] **Keyword Group 4** [electrical] **Keyword Group 5** [recited] **Before** Priority Date: priority:20030415
12/6/2022 10:27:36 AM	Google Scholar	(speaker) (audio device) (audio) (support) (wearable wireless)
12/6/2022 10:27:36 AM	Google Patents	**Keyword Group 1** [(speaker) (audio device) (audio) (support) (wearable wireless)] **Before** Priority Date: priority:20000602
12/6/2022 10:27:37 AM	Google Scholar	speaker audio device audio support wearable wireless
12/6/2022 10:27:37 AM	Google Patents	**Keyword Group 1** [speaker] **Keyword Group 2** [audio device] **Keyword Group 3** [audio] **Keyword Group 4** [support] **Keyword Group 5** [wearable wireless] **Before** Priority Date: priority:20000602
12/6/2022 10:27:44 AM	Google Scholar	(radiation) (output) (electronic circuit) (recited) (monitoring)
12/6/2022 10:27:44 AM	Google Patents	**Keyword Group 1** [(radiation) (output) (electronic circuit) (recited) (monitoring)] **Before** Priority Date: priority:20040415

date, time	web site	search string
12/6/2022 10:27:46 AM	Google Scholar	radiation output electronic circuit recited monitoring
12/6/2022 10:27:46 AM	Google Patents	Keyword Group 1 [radiation] Keyword Group 2 [output] Keyword Group 3 [electronic circuit] Keyword Group 4 [recited] Keyword Group 5 [monitoring] Before Priority Date: priority:20040415
12/6/2022 10:27:56 AM	Google Scholar	(eyeglasses) (wireless) (arms) (wireless communication) (frame)
12/6/2022 10:27:56 AM	Google Patents	Keyword Group 1 [(eyeglasses) (wireless) (arms) (wireless communication) (frame)] Before Priority Date: priority:20030415
12/6/2022 10:27:57 AM	Google Scholar	eyeglasses wireless arms wireless communication frame
12/6/2022 10:27:57 AM	Google Patents	Keyword Group 1 [eyeglasses] Keyword Group 2 [wireless] Keyword Group 3 [arms] Keyword Group 4 [wireless communication] Keyword Group 5 [frame] Before Priority Date: priority:20030415
12/6/2022 10:28:03 AM	Google Scholar	(coupled) (microphone) (speaker) (eyeglasses) (frame)
12/6/2022 10:28:03 AM	Google Patents	Keyword Group 1 [(coupled) (microphone) (speaker) (eyeglasses) (frame)] Before Priority Date: priority:20010621

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date, time	web site	search string
12/6/2022 10:28:05 AM	Google Scholar	coupled microphone speaker eyeglasses frame
12/6/2022 10:28:05 AM	Google Patents	Keyword Group 1 [coupled] Keyword Group 2 [microphone] Keyword Group 3 [speaker] Keyword Group 4 [eyeglasses] Keyword Group 5 [frame] Before Priority Date: priority:20010621
12/6/2022 10:39:03 AM	Google Scholar	(camera) (cable) (wiring harness) (communication system) (power)
12/6/2022 10:39:03 AM	Google Patents	Keyword Group 1 [(camera) (cable) (wiring harness) (communication system) (power)] Before Priority Date: priority:20040309
12/6/2022 10:39:04 AM	Google Scholar	camera cable wiring harness communication system power
12/6/2022 10:39:04 AM	Google Patents	Keyword Group 1 [camera] Keyword Group 2 [cable] Keyword Group 3 [wiring harness] Keyword Group 4 [communication system] Keyword Group 5 [power] Before Priority Date: priority:20040309
12/6/2022 10:39:09 AM	Google Scholar	(earphone) (wearer) (eyeglass) (support) (lens)
12/6/2022 10:39:09 AM	Google Patents	Keyword Group 1 [(earphone) (wearer) (eyeglass) (support) (lens)] Before Priority Date: priority:20000602

date, time	web site	search string
12/6/2022 10:39:10 AM	Google Scholar	earphone wearer eyeglass support lens
12/6/2022 10:39:10 AM	Google Patents	Keyword Group 1 [earphone] Keyword Group 2 [wearer] Keyword Group 3 [eyeglass] Keyword Group 4 [support] Keyword Group 5 [lens] Before Priority Date: priority:20000602
12/6/2022 10:39:20 AM	Google Scholar	(lens) (lens housing) (conductive element) (compliant) (temple)
12/6/2022 10:39:20 AM	Google Patents	Keyword Group 1 [(lens) (lens housing) (conductive element) (compliant) (temple)] Before Priority Date: priority:20100702
12/6/2022 10:39:21 AM	Google Scholar	lens lens housing conductive element compliant temple
12/6/2022 10:39:21 AM	Google Patents	Keyword Group 1 [lens] Keyword Group 2 [lens housing] Keyword Group 3 [conductive element] Keyword Group 4 [compliant] Keyword Group 5 [temple] Before Priority Date: priority:20100702
12/6/2022 10:39:28 AM	Google Scholar	(eyewear) (application module) (temple) (application) (frame)

date, time	web site	search string
12/6/2022 10:39:28 AM	Google Patents	Keyword Group 1 [(eyewear) (application module) (temple) (application) (frame)] Before Priority Date: priority:20051028
12/6/2022 10:39:29 AM	Google Scholar	eyewear application module temple application frame
12/6/2022 10:39:29 AM	Google Patents	Keyword Group 1 [eyewear] Keyword Group 2 [application module] Keyword Group 3 [temple] Keyword Group 4 [application] Keyword Group 5 [frame] Before Priority Date: priority:20051028
12/6/2022 10:39:36 AM	Google Scholar	(electronic) (lens) (frame) (eyewear frame) (electro)
12/6/2022 10:39:36 AM	Google Patents	Keyword Group 1 [(electronic) (lens) (frame) (eyewear frame) (electro)] Before Priority Date: priority:20041102
12/6/2022 10:39:38 AM	Google Scholar	electronic lens frame eyewear frame electro
12/6/2022 10:39:38 AM	Google Patents	Keyword Group 1 [electronic] Keyword Group 2 [lens] Keyword Group 3 [frame] Keyword Group 4 [eyewear frame] Keyword Group 5 [electro] Before Priority Date: priority:20041102
12/6/2022 10:39:46 AM	Google Scholar	(electro) (active) (temple) (frame) (spectacles)

date, time	web site	search string
12/6/2022 10:39:46 AM	Google Patents	Keyword Group 1 [(electro) (active) (temple) (frame) (spectacles)] Before Priority Date: priority:20070504
12/6/2022 10:39:47 AM	Google Scholar	electro active temple frame spectacles
12/6/2022 10:39:47 AM	Google Patents	Keyword Group 1 [electro] Keyword Group 2 [active] Keyword Group 3 [temple] Keyword Group 4 [frame] Keyword Group 5 [spectacles] Before Priority Date: priority:20070504
12/6/2022 10:39:53 AM	Google Scholar	(fall) (parameter) (eyeglasses) (composite index) (user)
12/6/2022 10:39:53 AM	Google Patents	Keyword Group 1 [(fall) (parameter) (eyeglasses) (composite index) (user)] Before Priority Date: priority:20160531
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12/6/2022 10:39:56 AM	Google Patents	Keyword Group 1 [fall] Keyword Group 2 [parameter] Keyword Group 3 [eyeglasses] Keyword Group 4 [composite index] Keyword Group 5 [user] Before Priority Date: priority:20160531
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date, time	web site	search string
12/6/2022 10:40:02 AM	Google Patents	Keyword Group 1 [(eyewear) (frame) (external device) (application) (wearer)] Before Priority Date: priority:20200316
12/6/2022 10:40:04 AM	Google Scholar	eyewear frame external device application wearer
12/6/2022 10:40:04 AM	Google Patents	Keyword Group 1 [eyewear] Keyword Group 2 [frame] Keyword Group 3 [external device] Keyword Group 4 [application] Keyword Group 5 [wearer] Before Priority Date: priority:20200316
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12/6/2022 10:40:10 AM	Google Patents	Keyword Group 1 [(wireless) (wic) (information) (wireless device) (actor)] Before Priority Date: priority:20010613
12/6/2022 10:40:11 AM	Google Scholar	wireless wic information wireless device actor
12/6/2022 10:40:11 AM	Google Patents	Keyword Group 1 [wireless] Keyword Group 2 [wic] Keyword Group 3 [information] Keyword Group 4 [wireless device] Keyword Group 5 [actor] Before Priority Date: priority:20010613

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Global Dossier

Office

US

Type

Application

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US 17873104 81 Members in Patent Family (79 currently shown) ()

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IP Office Type

All IP5 Offices
- EP
- CN
- KR
- JP
- US

Non-IP5 Offices

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()	US	10964011 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	TETHERED ELECTRICAL COMPONENTS FOR EYEGLASSES	10/12/2004	US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60618107 US 60462591 US 60605191 US 60592045	US 20050078274 A1 () US 7192136 B2 ()	04/14/2005 03/20/2007	
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⊞ ()	US	11183269 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING AFTER-MARKET ELECTRICAL COMPONENTS	07/15/2005	US 60647826 US 60527565 US 60583169 US 11183269 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050264752 A1 () US 7922321 B2 ()	12/01/2005 04/12/2011	
⊞ ()	US	11183263 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEGLASSES WITH A CLOCK OR OTHER ELECTRICAL COMPONENT	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 11183263 US 60592045 US 60647836	US 20060001827 A1 () US 7380936 B2 ()	01/05/2006 06/03/2008	
⊞ ()	US	11183256 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEGLASSES WITH ELECTRICAL COMPONENTS	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 11183256 US 60592045 US 60647836	US 20060023158 A1 () US 7500747 B2 ()	02/02/2006 03/10/2009	
⊞ ()	US	11183262 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEGLASSES WITH HEARING ENHANCED AND OTHER AUDIO SIGNAL-GENERATING CAPABILITIES	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 11183262 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050248717 A1 () US 7760898 B2 ()	11/10/2005 07/20/2010	
⊞ ()	US	11183283 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	Event eyeglasses	07/15/2005	US 60647826 US 60527565 US 60583169 US 60509631 US 11183283 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050248719 A1 ()	11/10/2005	

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⊞ ()	US	11183276 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEGLASSES WITH ACTIVITY MONITORING	07/15/2005	US 60647826 US 60527565 US 60583169 US 11183276 US 60509631 US 10964011 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20050248718 A1 () US 7255437 B2 ()	11/10/2005 08/14/2007	
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⊞ ()	US	11452115 View Dossier () ⬚	1) Cheung, Kwok Wai 2) Tong, Peter P. 3) Thomas, C. Douglass	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	06/12/2006	US 11452115 US 60689686 US 11006343 US 60527565	US 20060259565 A1 () US 7729688 B2 ()	11/16/2006 06/01/2010	
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⊞ ()	US	11521256 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	TETHERED ELECTRICAL COMPONENTS FOR EYEGLASSES	09/13/2006	US 11521256 US 60527565 US 60583169 US 60509631 US 10964011 US 60562798 US 60605191 US 60592045	US 7438410 B1 ()	10/21/2008	
⊞ ()	US	11580222 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING AFTER-MARKET ELECTRICAL COMPONENTS	10/11/2006	US 60583169 US 60725896 US 11183269 US 60787850 US 60846150 US 10964011 US 60725999 US 60527565 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60605191 US 60592045 US 60647836	US 20070046887 A1 () US 7581833 B2 ()	03/01/2007 09/01/2009	

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⊞ ()	US	11546685 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEGLASSES HAVING A CAMERA	10/11/2006	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 60725999 US 11183256 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20070030442 A1 () US 7806525 B2 ()	02/08/2007 10/05/2010	
⊞ ()	US	11650626 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Day, Robert Grant 5) Tong, Peter P.	EYEGLASSES WITH A HEART RATE MONITOR	01/06/2007	US 11650626 US 60583169 US 60787850 US 60846150 US 10964011 US 11183256 US 60647826 US 60527565 US 60509631 US 60763854 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20070109491 A1 () US 7677723 B2 ()	05/17/2007 03/16/2010	
⊞ ()	US	11700550 View Dossier () ⬚	1) Howell, Thomas A. 2) Tong, Peter P. 3) Thomas, C. Douglass	Hat with a radiation sensor	01/30/2007	US 60583169 US 11700550 US 11078855 US 60787850 US 60846150 US 60647826 US 60763854 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20070186330 A1 ()	08/16/2007	
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⊞ ()	US	12152480 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEGLASSES WITH RFID TAGS OR WITH A STRAP	05/13/2008	US 60647826 US 60620238 US 60618107 US 60605191 US 11183263 US 12152480 US 60592045 US 60647836	US 20080218684 A1 () US 8337013 B2 ()	09/11/2008 12/25/2012	
⊞ ()	US	12214435 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEGLASSES WITH USER MONITORING	06/19/2008	US 60583169 US 11183276 US 10964011 US 11891411 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 60618107 US 12214435 US 60605191 US 60592045 US 60647836	US 20080278678 A1 () US 7481531 B2 ()	11/13/2008 01/27/2009	
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⊞ ()	US	12806312 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR WITH MULTI-PART TEMPLE FOR SUPPORTING ONE OR MORE ELECTRICAL COMPONENTS	08/10/2010	US 60583169 US 60725896 US 60787850 US 10822218 US 11891411 US 60647826 US 60527565 US 12214435 US 60605191 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 60846150 US 10964011 US 12806312 US 60725999 US 12317043 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60462591	US 20100309426 A1 () US 8465151 B2 ()	12/09/2010 06/18/2013	
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⊞ ()	US	13367346 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING ELECTRICAL COMPONENTS AND APPARATUS THEREFOR	02/06/2012	US 60583169 US 60725896 US 11078855 US 60787850 US 13367346 US 10822218 US 60647826 US 60527565 US 60605191 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 60725999 US 11183256 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 11078857 US 11183263	US 20120133885 A1 () US 9033493 B2 ()	05/31/2012 05/19/2015	
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⊞ ()	US	13831445 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR WITH PRINTED CIRCUIT BOARD	03/14/2013	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 60647826 US 60527565 US 60605191 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 13831445 US 11078857 US 11183263	US 20140268013 A1 () US 20170068117 A9 () US 10310296 B2 ()	09/18/2014 03/09/2017 06/04/2019	

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⊞ ()	US	13831512 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING ONE OR MORE ELECTRICAL COMPONENTS	03/14/2013	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 11891411 US 60647826 US 60527565 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12806312 US 60725999 US 11183256 US 12317043 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 60462591 US 11078857 US 11183263	US 20130201440 A1 () US 9690121 B2 ()	08/08/2013 06/27/2017	
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⊞ ()	US	13955336 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING BONE CONDUCTING SPEAKER	07/31/2013	US 60583169 US 11078855 US 11183269 US 11183276 US 10964011 US 13955336 US 10822218 US 13085402 US 11183256 US 60647826 US 11006343 US 60527565 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 60605191 US 11078857 US 11183263 US 60592045 US 60647836	US 20130308089 A1 () US 8905542 B2 ()	11/21/2013 12/09/2014	
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⊞ ()	US	14272632 View Dossier ()	1) Cheung, Kwok Wai 2) Tong, Peter P. 3) Thomas, C. Douglass	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	05/08/2014	US 11452115 US 60689686 US 11006343 US 60527565 US 12798995 US 14272632	US 20140242956 A1 () US 9204268 B2 ()	08/28/2014 12/01/2015	
⊞ ()	US	14286976 View Dossier ()	1) Thomas, C. Douglass 2) Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	05/23/2014	US 12987018 US 11497651 US 13593483 US 11006343 US 60527565 US 13363360 US 14286976 US 12074961	US 20140256293 A1 () US 11019199 B2 ()	09/11/2014 05/25/2021	
⊞ ()	US	14313989 View Dossier ()	1) HOWELL, THOMAS A. 2) CHAO, DAVID 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR WITH RADIATION DETECTION SYSTEM	06/24/2014	US 14313989 US 60583169 US 12322377 US 11078855 US 10964011 US 10822218 US 60647826 US 11006343 US 60562798 US 60620238 US 60618107 US 60605191 US 11078857 US 60592045 US 60647836	US 20140361185 A1 () US 9488520 B2 ()	12/11/2014 11/08/2016	

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⊞ ()	US	14557409 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED ELECTRONIC COMPONENTS	12/01/2014	US 60583169 US 11078855 US 11183269 US 11183276 US 10964011 US 13955336 US 10822218 US 13085402 US 11183256 US 14557409 US 60647826 US 11006343 US 60527565 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 60605191 US 11078857 US 11183263 US 60592045 US 60647836	US 20150085245 A1 () US 9547184 B2 ()	03/26/2015 01/17/2017	
⊞ ()	US	14715501 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING ELECTRICAL COMPONENTS AND APPARATUS THEREFOR	05/18/2015	US 14715501 US 60583169 US 60725896 US 11078855 US 60787850 US 13367346 US 10822218 US 60647826 US 60527565 US 60605191 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 60725999 US 11183256 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 11078857 US 11183263	US 20150253590 A1 () US 10330956 B2 ()	09/10/2015 06/25/2019	
⊞ ()	US	14922344 View Dossier () ⬚	1) Cheung, Kwok Wai 2) Tong, Peter P. 3) Thomas, C. Douglass	SYSTEMS AND PROCESSES TO MANAGE MULTIPLE MODES OF COMMUNICATION	10/26/2015	US 14922344 US 11006343 US 60527565 US 14272632 US 11452115 US 60689686 US 12798995	US 20160044474 A1 () US 9736664 B2 ()	02/11/2016 08/15/2017	

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⊞ ()	US	15343472 View Dossier () ⬚	1) HOWELL, THOMAS A. 2) CHAO, DAVID 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR WITH RADIATION DETECTION SYSTEM	11/04/2016	US 14313989 US 60583169 US 12322377 US 11078855 US 10964011 US 10822218 US 60647826 US 15343472 US 11006343 US 60562798 US 60620238 US 60618107 US 60605191 US 11078857 US 60592045 US 60647836	US 20170074721 A1 () US 10060790 B2 ()	03/16/2017 08/28/2018	
⊞ ()	US	15375423 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED ELECTRONIC COMPONENTS	12/12/2016	US 60583169 US 11078855 US 10822218 US 13085402 US 60647826 US 60527565 US 15375423 US 60605191 US 60592045 US 60647836 US 11183269 US 11183276 US 10964011 US 13955336 US 11183256 US 14557409 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 60618107 US 11078857 US 11183263	US 20170090219 A1 () US 10061144 B2 ()	03/30/2017 08/28/2018	

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⊞ ()	US	15396428 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING ONE OR MORE ELECTRICAL COMPONENTS	12/31/2016	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 11891411 US 15396428 US 60647826 US 60527565 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12806312 US 60725999 US 11183256 US 12317043 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 60462591 US 11078857 US 11183263	US 20170146829 A1 ()	05/25/2017	
⊞ ()	US	15409723 View Dossier () ⬚	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR HOUSING FOR CHARGING EMBEDDED BATTERY IN EYEWEAR FRAME	01/19/2017	US 60583169 US 60725896 US 11078855 US 60787850 US 10822218 US 11891411 US 60647826 US 15409723 US 60527565 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 11183269 US 11183276 US 11546685 US 60846150 US 10964011 US 12806312 US 60725999 US 11183256 US 12317043 US 11006343 US 60509631 US 11183283 US 60562798 US 11183262 US 60620238 US 11580222 US 60618107 US 60462591 US 11078857 US 11183263	US 20170131575 A1 ()	05/11/2017	

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⊞ ()	US	15469440 View Dossier ()	1) Cheung, Kwok Wai 2) Tong, Peter P. 3) Thomas, C. Douglass	METHOD AND APPARATUS TO MANAGE DIFFERENT OPTIONS OF COMMUNICATION USING ONE USER IDENTIFIER BASED ON INTERNET PROTOCOL	03/24/2017	US 14922344 US 11006343 US 60527565 US 14272632 US 15469440 US 11452115 US 60689686 US 12798995	US 20170201872 A1 () US 10142810 B2 ()	07/13/2017 11/27/2018	
⊞ ()	US	15704181 View Dossier ()	1) Cheung, Kwok Wai 2) Tong, Peter P. 3) Thomas, C. Douglass	METHOD AND APPARATUS TO MANAGE MESSAGING PROVIDING DIFFERENT COMMUNICATION MODES DEPENDING ON ONE IDENTIFIER AND NOT REQUIRING AND NOT REQUIRING TO DISCLOSE CONTACT INFORMATION	09/14/2017	US 14922344 US 11006343 US 60527565 US 14272632 US 15469440 US 11452115 US 60689686 US 15704181 US 12798995	US 20180014169 A1 () US 10492038 B2 ()	01/11/2018 11/26/2019	
⊞ ()	US	16049120 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED ELECTRONIC COMPONENTS	07/30/2018	US 60583169 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20180335650 A1 () US 11243416 B2 ()	11/22/2018 02/08/2022	
⊞ ()	US	16102859 View Dossier ()	1) HOWELL, THOMAS A. 2) CHAO, DAVID 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR WITH RADIATION DETECTION SYSTEM	08/14/2018	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20180348050 A1 () US 10359311 B2 ()	12/06/2018 07/23/2019	

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⊞ ()	US	16127957 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING ELECTRICAL COMPONENTS AND APPARATUS THEREFOR	09/11/2018	US 14715501 US 60583169 US 60725896 US 11183269 US 60787850 US 60846150 US 10964011 US 13367346 US 60725999 US 16127957 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60605191 US 12462286 US 60592045 US 60647836	US 20190033623 A1 () US 11086147 B2 ()	01/31/2019 08/10/2021	
⊞ ()	US	16182969 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR HOUSING FOR CHARGING EMBEDDED BATTERY IN EYEWEAR FRAME	11/07/2018	US 14715501 US 60583169 US 60725896 US 60787850 US 13367346 US 10822218 US 13085402 US 11891411 US 60647826 US 15409723 US 60527565 US 15375423 US 12214435 US 60605191 US 13831512 US 12462286 US 60592045 US 60647836 US 16182969 US 11183269 US 11183276 US 60846150 US 10964011 US 13955336 US 12806312 US 16049120 US 60725999 US 16127957 US 12317043 US 14557409 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60462591	US 20190187492 A1 () US 20210364827 A9 ()	06/20/2019 11/25/2021	

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⊞ ()	US	16424018 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR WITH TOUCH-SENSITIVE INPUT SURFACE	05/28/2019	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 12803732 US 60725999 US 11183256 US 60647826 US 60527565 US 16424018 US 60509631 US 60562798 US 60620238 US 60618107 US 13291020 US 60605191 US 13831419 US 60592045 US 60647836	US 20190278110 A1 ()	09/12/2019	
⊞ ()	US	16426351 View Dossier ()	1) HOWELL, THOMAS A. 2) CHAO, DAVID 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR WITH DETECTION SYSTEM	05/30/2019	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 16426351 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20190310132 A1 () US 10539459 B2 ()	10/10/2019 01/21/2020	
⊞ ()	US	16429181 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR WITH PRINTED CIRCUIT BOARD SUPPORTING MESSAGES	06/03/2019	US 60583169 US 60725896 US 11546685 US 60787850 US 60846150 US 10964011 US 13831455 US 12803732 US 60725999 US 11183256 US 60647826 US 60527565 US 60509631 US 16429181 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20190285913 A1 () US 11513371 B2 ()	09/19/2019 11/29/2022	
⊞ ()	US	16445452 View Dossier ()	1) Thomas, C. Douglass 2) Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	06/19/2019	US 12987018 US 11497651 US 13593483 US 11006343 US 60527565 US 13363360 US 14286976 US 12074961 US 16445452	US 20190306304 A1 ()	10/03/2019	
⊞ ()	US	16446710 View Dossier ()	1) Thomas, C. Douglass 2) Tong, Peter P.	ADAPTABLE COMMUNICATION TECHNIQUES FOR ELECTRONIC DEVICES	06/20/2019	US 12987018 US 11497651 US 13593483 US 11006343 US 60527565 US 13363360 US 14286976 US 12074961 US 16446710	US 20190306305 A1 ()	10/03/2019	

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⊞ ()	US	16556205 View Dossier ()	1) Cheung, Kwok Wai 2) Tong, Peter P. 3) Thomas, C. Douglass	METHOD AND APPARATUS TO MANAGE MESSAGING PROVIDING DIFFERENT COMMUNICATION MODES USING ONE IDENTIFIER AND NOT REQUIRING TO DISCLOSE CONTACT INFORMATION	08/29/2019	US 14922344 US 11006343 US 60527565 US 14272632 US 15469440 US 11452115 US 60689686 US 15704181 US 12798995 US 16556205	US 20190387371 A1 () US 10708727 B2 ()	12/19/2019 07/07/2020	
⊞ ()	US	16574254 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED AND TETHERED ELECTRONIC COMPONENTS	09/18/2019	US 60583169 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 16574254 US 60605191 US 60592045 US 60647836	US 20200012127 A1 () US 11204512 B2 ()	01/09/2020 12/21/2021	
⊞ ()	US	16703805 View Dossier ()	1) HOWELL, THOMAS A. 2) CHAO, DAVID 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR WITH DETECTION SYSTEM	12/04/2019	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 16426351 US 16703805 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20200109986 A1 () US 11326941 B2 ()	04/09/2020 05/10/2022	
⊞ ()	US	16794458 View Dossier ()	1) Cheung, Kwok Wai 2) Tong, Peter P. 3) Thomas, C. Douglass	METHOD AND APPARATUS TO MANAGE COMMUNICATION BASED ON INTERNET PROTOCOL AND USING HEADSET	02/19/2020	US 14922344 US 11006343 US 60527565 US 14272632 US 16794458 US 15469440 US 11452115 US 60689686 US 15704181 US 12798995 US 16556205	US 20200186975 A1 ()	06/11/2020	

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⊞ ()	US	16821810 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING EMBEDDED ELECTRONIC COMPONENTS FOR AUDIO SUPPORT	03/17/2020	US 60583169 US 16821810 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 16574254 US 60605191 US 60592045 US 60647836	US 20200218094 A1 ()	07/09/2020	
⊞ ()	US	17395509 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR HAVING EXTENDED ENDPIECES TO SUPPORT ELECTRICAL COMPONENTS	08/06/2021	US 14715501 US 60583169 US 60725896 US 11183269 US 60787850 US 60846150 US 10964011 US 13367346 US 17395509 US 60725999 US 16127957 US 60647826 US 60527565 US 60509631 US 60562798 US 60620238 US 11580222 US 60618107 US 60605191 US 12462286 US 60592045 US 60647836	US 20210364828 A1 ()	11/25/2021	
⊞ ()	US	17484080 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR SUPPORTING DISTRIBUTED AND EMBEDDED ELECTRONIC COMPONENTS	09/24/2021	US 17484080 US 60583169 US 11183269 US 10964011 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 60527565 US 60509631 US 15375423 US 60562798 US 60620238 US 60618107 US 16574254 US 60605191 US 60592045 US 60647836	US 20220011603 A1 ()	01/13/2022	

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⊞ ()	US	17681593 View Dossier ()	1) HOWELL, THOMAS A. 2) CHAO, DAVID 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR WITH DETECTION SYSTEM	02/25/2022	US 14313989 US 60583169 US 12322377 US 11078855 US 16102859 US 16426351 US 16703805 US 17681593 US 60647826 US 15343472 US 60562798 US 60620238 US 60618107 US 60605191 US 60592045 US 60647836	US 20220178743 A1 ()	06/09/2022	
⊞ ()	US	17737866 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	EYEWEAR HAVING REMOVABLE TEMPLES THAT SUPPORT ELECTRICAL COMPONENTS	05/05/2022	US 14715501 US 60725896 US 17737866 US 60787850 US 60846150 US 13367346 US 11580222 US 17395509 US 12462286 US 60725999 US 16127957	US 20220260859 A1 ()	08/18/2022	
⊞ ()	US	17873104 View Dossier ()	1) Howell, Thomas A. 2) Chao, David 3) Thomas, C. Douglass 4) Tong, Peter P.	WEARABLE AUDIO SYSTEM SUPPORTING ENHANCED HEARING SUPPORT	07/25/2022	US 17484080 US 11183269 US 13955336 US 13085402 US 16049120 US 14557409 US 60647826 US 15375423 US 17873104 US 60620238 US 60618107 US 16574254 US 60605191 US 60592045 US 60647836	US 20220357599 A1 ()	11/10/2022	

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L898	4	"17873104"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/12/05 03:07 PM
L899	12	"15375423"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/12/05 03:07 PM
L902	16	"46304853".fmid.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; JPO)	OR	ON	ON	2022/12/05 03:07 PM
L903	36	(Artificial Intelligence) More like doc: US-20050264752-A1 Text: (US-20110187990-A1 OR US-20130308089-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2022/12/05 03:07 PM

		A1 OR US-20170090219-A1 OR US-20150085245-A1 OR US-20180335650-A1 OR US-20070046887-A1 OR US-7581833-B2 OR US-7922321-B2 OR US-8500271-B2 OR US-20100309426-A1 OR US-20200012127-A1 OR US-20120133885-A1 OR US-20150253590-A1 OR US-20130201440-A1 OR US-20170068117-A9 OR US-20140268013-A1 OR US-20140268008-A1 OR US-20160246075-A9 OR US-20210364828-A1 OR US-8109629-B2).did.	HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L904	45	(Artificial Intelligence) Similar to: 17/873,104 with 0 CPC Selections and 0 Text Selections Text: (CN-105229737-A OR CN-105229737-B OR US-7987070-B2 OR KR-20050093003-A OR EP-2149068-B1 OR US-20140278385-A1 OR EP-2973556-A1 OR WO-2014163797-A1 OR KR-20210058039-A OR US-20200218094-A1 OR JP-2016516343-A OR FR-2915815-A1 OR US-20090234614-A1 OR EP-2149068-A1 OR WO-2008133921-A1 OR US-10379386-B2 OR US-20220011603-A1 OR EP-2973556-B1 OR US-20180045982-A1 OR US-11243416-B2 OR US-9547184-B2 OR CN-108919516-A OR CN-113156669-A OR BE-1028116-B1 OR JP-6375362-B2 OR US-9810925-B2 OR US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2022/12/05 03:07 PM

		10061144-B2 OR TW-201510990-A OR US-20180335650-A1 OR US-20170090219-A1 OR US-20200012127-A1 OR US-11204512-B2 OR TW-I624829-B OR CN-214011676-U OR US-8905542-B2 OR US-20150085245-A1 OR US-7922321-B2 OR US-20110187990-A1 OR US-20130308089-A1 OR US-8500271-B2 OR US-20050264752-A1 OR WO-2016090066-A1 OR ES-2567480-T3 OR AU-2021100440-A4 OR KR-20220092330-A OR CN-110850604-A OR US-20200294521-A1 OR CN-104730731-B OR CN-103124921-A OR WO-2020144536-A3).did.					
L905	44	(Artificial Intelligence) Similar to: 17/873,104 with 4 CPC Selections and 1 Text Selection Text: (KR-20050093003-A OR US-7987070-B2 OR EP-2149068-B1 OR CN-105229737-A OR CN-105229737-B OR JP-2016516343-A OR US-20090234614-A1 OR EP-2149068-A1 OR WO-2008133921-A1 OR US-20140278385-A1 OR EP-2973556-A1 OR WO-2014163797-A1 OR FR-2915815-A1 OR KR-20210058039-A OR CN-108919516-A OR BE-1028116-B1 OR JP-6375362-B2 OR EP-2973556-B1 OR US-10379386-B2 OR TW-201510990-A OR US-20180045982-A1 OR US-9810925-B2 OR US-9547184-B2 OR CN-113156669-A OR US-11243416-B2 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2022/12/05 03:07 PM

		TW-I624829-B OR CN-214011676-U OR US-20170090219-A1 OR US-20180335650-A1 OR AU-2021100440-A4 OR US-10061144-B2 OR US-11204512-B2 OR WO-2020144536-A3 OR US-20200218094-A1 OR US-20220011603-A1 OR ES-2567480-T3 OR US-8905542-B2 OR WO-2016090066-A1 OR US-20200012127-A1 OR US-7922321-B2 OR US-8500271-B2 OR US-20150085245-A1 OR US-20050264752-A1 OR US-20110187990-A1 OR US-20130308089-A1 OR KR-20220092330-A OR GB-2594812-A OR CN-104730731-B OR US-20200294521-A1 OR BR-112014016460-A2).did.					
L906	45	(Artificial Intelligence) Similar to: 17/873,104 with 4 CPC Selections and 1 Text Selection Text: (KR-20050093003-A OR CN-105229737-B OR CN-105229737-A OR US-7987070-B2 OR EP-2149068-B1 OR US-20140278385-A1 OR EP-2973556-A1 OR WO-2014163797-A1 OR JP-2016516343-A OR EP-2973556-B1 OR US-20090234614-A1 OR EP-2149068-A1 OR WO-2008133921-A1 OR JP-6375362-B2 OR KR-20210058039-A OR FR-2915815-A1 OR BE-1028116-B1 OR US-20180045982-A1 OR US-9810925-B2 OR CN-108919516-A OR US-10379386-B2 OR TW-I624829-B OR US-9547184-B2 OR TW-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN))	OR	ON	ON	2022/12/05 03:07 PM

		201510990-A OR US-11243416-B2 OR CN-113156669-A OR CN-214011676-U OR US-10061144-B2 OR AU-2021100440-A4 OR WO-2016090066-A1 OR ES-2567480-T3 OR WO-2020144536-A3 OR US-8905542-B2 OR US-20220011603-A1 OR US-20220107515-A1 OR US-11422392-B2 OR WO-2022076226-A1 OR US-7922321-B2 OR US-20200294521-A1 OR US-20200218094-A1 OR US-20050264752-A1 OR US-8500271-B2 OR US-11204512-B2 OR US-20110187990-A1 OR US-20150085245-A1 OR US-20180335650-A1 OR US-20130308089-A1 OR US-20170090219-A1 OR KR-20220092330-A OR US-20200012127-A1).did.					
L907	5	"17484080"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/12/05 03:07 PM
L908	7	"16574254"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO,	OR	ON	ON	2022/12/05 03:07 PM

			MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L910	85506	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/12/05 03:07 PM
L911	67148	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/12/05 03:07 PM
L912	63198	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/12/05 03:07 PM
L913	41127	(eyewear$4 OR glasses$4 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP,	OR	ON	ON	2022/12/05 03:07 PM

		spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4	AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L914	38543	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND (communicat$4 near10 wireless$4) AND (audio OR speak$4) AND embed$4	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/12/05 03:07 PM
L915	19842	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM
L916	124	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM
L917	109	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM

		(("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4)					
L918	105	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM
L919	105	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND (communicat$4 near10 wireless$4) AND (audio OR speak$4) AND embed$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM
L920	84	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM

		("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone					
L921	65	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM
L922	65	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM

		(audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second					
L923	65	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM
L924	61	((("HOWELL") near3 ("Thomas")) OR (("CHAO") near3 ("David")) OR (("THOMAS") near3 ("C")) OR (("TONG") near3 ("Peter"))).INV. AND (eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM
L925	14837	(eyewear$4 OR glasses$4 OR spetacl$4 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM

		eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone					
L926	9751	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM
L927	2872	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND circuit AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM
L928	1575	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND control$4 AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM

		microphone AND left AND right AND first AND second AND bridge AND partial$4					
L929	1151	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND (electric$4 WITH control$4) AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM
L930	583	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND (electric$4 WITH control$4) AND (memor$4 OR stor$4) AND batter$4 AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left AND right AND first AND second AND bridge AND partial$4 AND rechargeable	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM
L931	574	(eyewear$4 OR glasses$4 OR spetacl$4 OR eyegalss$4) AND frame AND (circuit near10 board) AND (electric$4 WITH control$4) AND (memor$4 OR stor$4) AND (batter$4 near10 rechargeable) AND connect$4 AND communicat$4 AND (audio OR speak$4) AND wireless$4 AND embed$4 AND microphone AND left	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/12/05 03:07 PM

		AND right AND first AND second AND bridge AND partial$4					
L932	31	(Artificial Intelligence) More like doc: US-6349001-B1 Text: (CA-2307877-C OR WO-9923524-A1 OR EP-1027627-A1 OR EP-1027627-A4 OR US-6091546-A OR EP-1027627-B1 OR JP-2001522063-A OR WO-9923524-A8 OR CA-2307877-A1 OR US-6204974-B1 OR US-6384982-B1 OR EP-1169663-A1 OR US-6356392-B1 OR WO-0055676-A1 OR EP-1169663-A4 OR JP-2002539498-A OR US-20030090439-A1 OR WO-03023756-A1 OR EP-1433160-A1 OR EP-3009874-A1).did.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/12/05 03:07 PM
L933	33	(Artificial Intelligence) More like doc: US-7278734-B2 Text: (US-20050201585-A1 OR US-20080089545-A1 OR US-8020989-B2 OR EP-1828833-B1 OR AU-2005306412-A2 OR EP-1828833-A2 OR WO-2006055884-A2 OR CA-2588650-A1 OR AU-2005306412-A1 OR CA-2932965-C OR CA-2932965-A1 OR AU-2013263854-A1 OR AU-2005306412-B2 OR KR-20070103367-A OR US-20060203183-A1 OR US-20040160573-A1 OR US-7150526-B2 OR US-7988283-B2 OR US-7494216-B2 OR US-7461936-B2).did.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/12/05 03:07 PM
L934	30	(Artificial Intelligence) More like doc: US-6911172-B2 Text: (US-20040000733-A1 OR US-6929365-B2 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2022/12/05 03:07 PM

		US-20040239874-A1 OR US-20020159023-A1 OR EP-1485748-A2 OR US-20040029582-A1 OR US-9244292-B2 OR US-7331666-B2 OR WO-02089496-A2 OR CA-2445952-A1 OR US-20050239502-A1 OR US-6769767-B2 OR US-20160109729-A1 OR JP-2005502902-A OR JP-4246500-B2 OR TW-I252005-B OR EP-1485748-B1 OR WO-02089496-A3 OR CN-1578923-A OR EP-3614195-A1).did.	HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L935	10408	L14 AND ((G02B27/017 OR G02B2027/0178 OR G02B27/0172 OR G02B2027/014 OR G02B2027/0138 OR G02B2027/0187 OR G02B27/0093 OR G02B27/0176 OR G02B2027/0118 OR G02B2027/0134 OR G02B27/0179 OR G02B2027/0141 OR G02B2027/0174 OR G02B27/0101 OR G02B27/01 OR G02B2027/0132 OR G02B2027/0127 OR G02B2027/0123 OR G02B30/24 OR G02B2027/0156 OR G02B2027/0112 OR G02B2027/0147 OR G02B27/0081 OR G02B3/14 OR G02B2027/011 OR G02B2027/0185 OR G02B6/005 OR G02B30/34 OR G02B2027/0154 OR G02B6/34 OR G02B26/101 OR G02B5/32 OR G02B2027/0125 OR G02B7/28 OR G02B2027/0181 OR G02B27/30 OR G02B27/646 OR G02B2027/015 OR G02B27/02 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/12/05 03:07 PM

		G02B6/0016 OR G02B26/0833 OR G02B30/00 OR G02B5/30 OR G02B27/4205 OR G02B6/0038 OR G02B30/25 OR G02B26/001 OR G02B13/0045 OR G02B26/10 OR G02B5/208 OR G02B2027/0159 OR G02B6/0036 OR G02B6/0076 OR G02B27/0075 OR G02B7/09 OR G02B2027/0152 OR G02B27/022 OR G02B2027/0116 OR G02B27/0149 OR G02B3/0081 OR G02B2027/0169 OR G02B6/0035 OR G02B27/283 OR G02B7/285 OR G02B13/06 OR G02B6/0065 OR G02B7/08 OR G02B5/3025 OR G02B2027/012 OR G02B27/0103 OR G02B5/1857 OR G02B6/00 OR G02B2027/013 OR G02B6/0023 OR G02B30/27 OR G02B27/00 OR G02B6/0068 OR G02B6/0055 OR G02B27/028 OR G02B7/023 OR G02B2027/0114 OR G02B26/005 OR G02B2027/0161 OR G02B26/105 OR G02B7/04 OR G02B7/102 OR G02B27/4272 OR G02B6/0011 OR G02B2027/0105 OR G02B5/23 OR G02B6/0088 OR G02B7/12 OR G02B7/02 OR G02B6/003 OR G02B3/0056 OR G02B5/08 OR G02B2027/0163 OR					

		G02B21/365 OR G02B30/23 OR G02B5/20 OR G02B27/286 OR G02B6/006 OR G02B6/10 OR G02B7/021 OR G02B27/1086 OR G02B6/0001 OR G02B6/0018 OR G02B3/0006 OR G02B5/005 OR G02B2027/0194 OR G02B2027/0198 OR G02B26/0816 OR G02B27/42 OR G02B6/0028 OR G02B13/009 OR G02B27/0018 OR G02B30/40 OR G02B6/0053 OR G02B5/1866 OR G02B9/64 OR G02B13/004 OR G02B19/0057 OR G02B21/0012 OR G02B26/004 OR G02B27/4227 OR G02B7/008 OR G02B3/0062 OR G02B5/1871 OR G02B13/18 OR G02B26/02 OR G02B5/18 OR G02B27/141 OR G02B26/0875 OR G02B27/0006 OR G02B6/002 OR G02B6/1226 OR G02B9/60 OR G02B2027/0158 OR G02B3/12 OR G02B5/223 OR G02B6/0051 OR G02B13/0035 OR G02B2027/0107 OR G02B21/06 OR G02B5/1823 OR G02B5/201 OR G02B5/3083 OR G02B6/29325 OR G02B9/62 OR G02B13/02 OR G02B2027/0136 OR G02B26/06 OR G02B2027/0143 OR G02B1/002 OR G02B1/11 OR					

		G02B2027/0129 OR G02B26/00 OR G02B6/124 OR G02B26/0841 OR G02B30/36 OR G02B3/0075 OR G02B5/0252 OR G02B6/4206 OR G02B19/0014 OR G02B27/0955 OR G02B5/1842 OR G02B27/1026 OR G02B6/0031 OR G02B1/041 OR G02B6/0026 OR G02B7/002 OR G02B13/0065 OR G02B26/0808 OR G02B26/0825 OR G02B27/0189 OR G02B27/106 OR G02B30/52 OR G02B13/14 OR G02B23/18 OR G02B27/0905 OR G02B30/33 OR G02B5/3016 OR G02B1/02 OR G02B2006/12107 OR G02B25/02 OR G02B26/026 OR G02B9/34 OR G02B27/0977 OR G02B27/145 OR G02B3/0043 OR G02B9/12 OR G02B2027/0183 OR G02B27/0988 OR G02B27/1066 OR G02B30/35 OR G02B6/0056 OR G02B6/4204 OR G02B13/00 OR G02B17/086 OR G02B25/001 OR G02B25/004 OR G02B27/0025 OR G02B27/48 OR G02B30/56 OR G02B6/0061 OR G02B6/1221 OR G02B27/102 OR G02B6/1225 OR G02B6/42 OR G02B13/001 OR G02B2006/12164 OR G02B3/0037 OR G02B6/0025 OR					

		G02B6/0045 OR G02B6/0078 OR G02B6/0083 OR G02B6/12004 OR G02B6/12007 OR G02B7/06 OR G02B27/44 OR G02B30/30 OR G02B6/0021 OR G02B21/362 OR G02B27/0994 OR G02B27/10 OR G02B6/0085 OR G02B9/04 OR G02B26/007 OR G02B27/20 OR G02B27/64 OR G02B3/00 OR G02B3/0031 OR G02B3/02 OR G02B3/08 OR G02B30/31 OR G02B7/003 OR G02B2006/12147 OR G02B21/025 OR G02B23/125 OR G02B6/13 OR G02B6/32 OR G02B13/0015 OR G02B19/0042 OR G02B27/0916 OR G02B27/0972 OR G02B30/26 OR G02B5/1809 OR G02B6/4214 OR G02B1/045 OR G02B2027/0109 OR G02B2027/0196 OR G02B27/0037 OR G02B27/0068 OR G02B27/1006 OR G02B5/04 OR G02B5/3058 OR G02B6/0046 OR G02B6/2848 OR G02B7/34 OR G02B13/007 OR G02B2003/0093 OR G02B26/08 OR G02B27/18 OR G02B3/04 OR G02B5/1861 OR G02B6/2706 OR G02B19/0028 OR G02B2027/0145 OR G02B27/143 OR G02B27/58 OR G02B27/62 OR					

		G02B3/0068 OR G02B3/0087 OR G02B5/10 OR G02B5/28 OR G02B6/0015 OR G02B6/0073 OR G02B6/122 OR G02B6/125 OR G02B6/4215 OR G02B7/022 OR G02B7/36 OR G02B1/10 OR G02B13/0075 OR G02B17/08 OR G02B19/0066 OR G02B21/36 OR G02B23/00 OR G02B27/0961 OR G02B27/144 OR G02B30/10 OR G02B5/00 OR G02B5/1847 OR G02B5/1852 OR G02B6/0006 OR G02B7/10 OR G02B13/008 OR G02B15/00 OR G02B19/0023 OR G02B19/0076 OR G02B21/22 OR G02B2207/101 OR G02B3/005 OR G02B6/001 OR G02B6/0033 OR G02B6/0058 OR G02B6/02 OR G02B7/028).cpc.)					
L936	3527	L14 AND ((G02C11/10 OR G02C7/101 OR G02C7/083 OR G02C11/06 OR G02C7/04 OR G02C11/00 OR G02C11/04 OR G02C5/143 OR G02C7/02 OR G02C5/14 OR G02C7/06 OR G02C7/08 OR G02C7/102 OR G02C5/146 OR G02C2202/16 OR G02C2202/20 OR G02C7/049 OR G02C7/022 OR G02C5/22 OR G02C2202/18 OR G02C5/001 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/12/05 03:07 PM

		G02C2202/22 OR G02C7/081 OR G02C2200/08 OR G02C7/085 OR G02C7/061 OR G02C7/16 OR G02C2200/02 OR G02C5/16 OR G02C7/066 OR G02C7/12 OR G02C2202/12 OR G02C3/003 OR G02C7/086 OR G02C2202/24 OR G02C9/00 OR G02C5/02 OR G02C5/12 OR G02C7/10 OR G02C7/041 OR G02C7/104 OR G02C11/08 OR G02C13/003 OR G02C7/088 OR G02C1/00 OR G02C5/20 OR G02C9/04 OR G02C7/00 OR G02C2202/10 OR G02C5/008 OR G02C1/06 OR G02C5/2209 OR G02C5/124 OR G02C11/02 OR G02C13/001 OR G02C5/10 OR G02C5/2227 OR G02C7/105 OR G02C13/005 OR G02C2200/10 OR G02C13/00 OR G02C2200/06 OR G02C5/2254 OR G02C5/006 OR G02C5/126 OR G02C1/10 OR G02C5/04 OR G02C5/2218 OR G02C5/2272 OR G02C9/02 OR G02C2200/18 OR G02C5/122 OR G02C7/108 OR G02C3/04 OR G02C5/00 OR G02C7/021 OR G02C5/08 OR G02C7/027).cpc.)					
L937	7972	L15 AND (	(US-PGPUB; USPAT;	OR	ON	ON	2022/12/05

		(G02B27/017 OR G02B2027/0178 OR G02B27/0172 OR G02B2027/014 OR G02B2027/0138 OR G02B2027/0187 OR G02B27/0093 OR G02B27/0176 OR G02B2027/0118 OR G02B2027/0134 OR G02B2027/0141 OR G02B27/0179 OR G02B27/0101 OR G02B27/01 OR G02B2027/0127 OR G02B2027/0174 OR G02B2027/0132 OR G02B2027/0123 OR G02B2027/0156 OR G02B2027/0147 OR G02B27/0081 OR G02B2027/0185 OR G02B2027/0112 OR G02B2027/011 OR G02B6/34 OR G02B6/005 OR G02B2027/0154 OR G02B26/101 OR G02B27/646 OR G02B3/14 OR G02B2027/0125 OR G02B2027/0181 OR G02B13/0045 OR G02B26/001 OR G02B6/0016 OR G02B27/30 OR G02B30/34 OR G02B5/30 OR G02B6/0038 OR G02B6/0036 OR G02B7/09 OR G02B2027/015 OR G02B27/0075 OR G02B27/4205 OR G02B5/208 OR G02B27/022 OR G02B7/08 OR G02B6/0035 OR G02B2027/012 OR G02B5/1857 OR G02B6/0076 OR G02B2027/0169 OR G02B2027/0152 OR G02B27/283 OR G02B2027/0159 OR G02B26/0833 OR G02B13/06 OR G02B26/10 OR	USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				03:07 PM

		G02B5/3025 OR G02B27/02 OR G02B27/028 OR G02B30/24 OR G02B27/4272 OR G02B5/32 OR G02B6/0065 OR G02B27/0149 OR G02B2027/0114 OR G02B6/00 OR G02B7/04 OR G02B6/0068 OR G02B27/286 OR G02B6/10 OR G02B2027/0116 OR G02B26/105 OR G02B6/0088 OR G02B2027/0161 OR G02B30/27 OR G02B5/08 OR G02B6/0001 OR G02B2027/0105 OR G02B21/365 OR G02B6/0011 OR G02B6/0023 OR G02B5/1866 OR G02B7/023 OR G02B27/42 OR G02B30/40 OR G02B27/00 OR G02B27/0018 OR G02B7/021 OR G02B7/102 OR G02B7/12 OR G02B9/64 OR G02B2027/0198 OR G02B27/4227 OR G02B6/0053 OR G02B6/0055 OR G02B7/02 OR G02B3/0006 OR G02B5/1871 OR G02B6/003 OR G02B13/009 OR G02B13/18 OR G02B2027/0163 OR G02B13/004 OR G02B26/005 OR G02B7/008 OR G02B3/0062 OR G02B9/60 OR G02B3/0056 OR G02B6/0028 OR G02B27/1086 OR G02B5/1823 OR G02B6/29325 OR G02B9/62 OR G02B13/0035 OR					

		G02B13/02 OR G02B21/06 OR G02B26/0875 OR G02B30/00 OR G02B6/0018 OR G02B6/006 OR G02B2027/0136 OR G02B5/18 OR G02B5/3083 OR G02B26/004 OR G02B30/23 OR G02B5/005 OR G02B6/0051 OR G02B7/28 OR G02B3/0075 OR G02B2027/0107 OR G02B2027/013 OR G02B2027/0194 OR G02B5/1842 OR G02B5/20 OR G02B6/002 OR G02B21/0012 OR G02B26/06 OR G02B27/0103 OR G02B2027/0129 OR G02B26/0841 OR G02B3/12 OR G02B1/002 OR G02B1/11 OR G02B30/25 OR G02B5/201 OR G02B2027/0143 OR G02B27/0955 OR G02B6/0026 OR G02B9/34 OR G02B1/041 OR G02B13/14 OR G02B26/026 OR G02B26/0825 OR G02B27/0977 OR G02B3/0043 OR G02B5/223 OR G02B9/12 OR G02B2027/0183 OR G02B26/02 OR G02B30/56 OR G02B2027/0158 OR G02B26/00 OR G02B6/0031 OR G02B6/0056 OR G02B6/4204 OR G02B13/00 OR G02B27/0025 OR G02B5/3016 OR G02B6/0078 OR G02B19/0057 OR G02B6/0083 OR G02B6/0085 OR					

		G02B9/04 OR G02B13/0065 OR G02B17/086 OR G02B26/007 OR G02B27/10 OR G02B30/52 OR G02B6/0021 OR G02B21/025 OR G02B3/0031 OR G02B30/31 OR G02B30/35 OR G02B30/36 OR G02B7/002 OR G02B26/0816 OR G02B27/0916 OR G02B3/08 OR G02B7/003 OR G02B27/0037 OR G02B27/44 OR G02B3/0037 OR G02B6/0025 OR G02B6/0061 OR G02B13/001 OR G02B13/0015 OR G02B13/007 OR G02B27/0006 OR G02B27/48 OR G02B3/02 OR G02B30/33 OR G02B6/2706 OR G02B6/32 OR G02B2027/0145 OR G02B26/08 OR G02B27/64 OR G02B5/04 OR G02B6/0045 OR G02B6/124 OR G02B19/0066 OR G02B21/36 OR G02B21/362 OR G02B27/102 OR G02B3/00 OR G02B3/0068 OR G02B5/1847 OR G02B5/1852 OR G02B6/12007 OR G02B6/122 OR G02B13/008 OR G02B19/0076 OR G02B23/18 OR G02B27/0189 OR G02B27/20 OR G02B27/62 OR G02B3/04 OR G02B30/10 OR G02B5/1861 OR G02B5/23 OR G02B6/0033 OR				

		G02B6/0046 OR G02B7/34 OR G02B13/003 OR G02B15/142 OR G02B19/009 OR G02B2003/0093 OR G02B2027/0196 OR G02B25/001 OR G02B27/0972 OR G02B27/1033 OR G02B27/141 OR G02B27/425 OR G02B30/30 OR G02B6/0006 OR G02B6/0008 OR G02B6/0073 OR G02B6/009 OR G02B6/02085 OR G02B6/29316 OR G02B6/29328 OR G02B6/4206 OR G02B6/443 OR G02B6/4471 OR G02B7/028 OR G02B9/36 OR G02B1/10 OR G02B13/002 OR G02B13/006 OR G02B15/00 OR G02B15/10 OR G02B15/20 OR G02B17/0605 OR G02B19/0028 OR G02B19/0047 OR G02B2027/0109 OR G02B27/04 OR G02B27/144 OR G02B3/0087 OR G02B30/50 OR G02B5/10 OR G02B7/10 OR G02B13/0055 OR G02B13/04 OR G02B17/06 OR G02B17/08 OR G02B27/0961 OR G02B27/281 OR G02B5/0252 OR G02B5/12 OR G02B5/1809 OR G02B5/26 OR G02B5/281 OR G02B6/001 OR G02B6/02 OR G02B6/105 OR G02B7/182 OR G02B7/36).cpc.)					
L938	1988	L15 AND ((G02C11/10	(US-PGPUB; USPAT;	OR	ON	ON	2022/12/05