		A1 OR US-20150360014-A1 OR US-20150224020-A1 OR US-20150182415-A1 OR US-20150119771-A1 OR US-20140202493-A1 OR US-20120165710-A1 OR US-20120037184-A1 OR US-20110009783-A1 OR US-20060211961-A1 OR US-20040082983-A1 OR US-20160074641-A1 OR US-20160015150-A1 OR US-20150305487-A1 OR US-20120136289-A1 OR US-20120065556-A1 OR US-20100274162-A1 OR US-20100145242-A1 OR US-20210138260-A1 OR US-20200352306-A1 OR US-20190388707-A1 OR US-20200179713-A1 OR US-20200101312-A1 OR US-20200046999-A1 OR US-20100211136-A1 OR US-20140343574-A1 OR US-20080140164-A1 OR US-20080103563-A1 OR US-20050234383-A1 OR US-20070106347-A1 OR US-20070032843-A1 OR US-20060030908-A1 OR US-20050065579-A1 OR US-20050055070-A1 OR US-20040210277-A1 OR US-20210022565-A1 OR US-20200113390-A1 OR US-20170181925-A1 OR US-20200085015-A1 OR US-20190117503-A1 OR US-20190117497-A1 OR US-20120226268-A1 OR US-20130190845-A1 OR US-20190046812-A1 OR					

		US-20110034837-A1 OR US-20170164876-A1 OR US-20150290076-A1 OR US-20150205279-A1 OR US-20070217199-A1 OR US-20070213698-A1 OR US-20210322257-A1 OR US-20170007498-A1 OR US-20210121360-A1 OR US-20200281805-A1 OR US-20200046602-A1 OR US-20200093410-A1 OR US-20140046127-A1 OR US-20150005679-A1 OR US-20170156974-A1 OR US-20180361137-A1 OR US-20180185238-A1 OR US-20180140813-A1 OR US-20180104144-A1 OR US-20170202732-A1 OR US-20170095689-A1 OR US-20170079865-A1 OR US-20170065480-A1 OR US-20160324717-A1 OR US-20160271009-A1 OR US-20160175185-A1 OR US-20160045393-A1 OR US-20150045192-A1 OR US-20100331745-A1 OR US-20090306561-A1 OR US-20060025710-A1 OR US-20030195443-A1 OR US-20040193079-A1 OR US-20030149381-A1 OR US-20030014079-A1 OR US-20140194794-A1 OR US-20150320636-A1 OR US-20150313638-A1 OR US-20080082028-A1 OR US-20070244416-A1 OR US-20060052729-A1 OR US-20060009719-A1 OR US-20050137504-A1 OR US-20210196557-					

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		US-20180098615-A1 OR US-20170367471-A1 OR US-20170360648-A1 OR US-20170347789-A1 OR US-20170224098-A1 OR US-20170194849-A1 OR US-20170194848-A1 OR US-20170189227-A1 OR US-20170181924-A1 OR US-20170172834-A1 OR US-20170042386-A1 OR US-20160287034-A1 OR US-20160223269-A1 OR US-20160190902-A1 OR US-20160184176-A1 OR US-20160184171-A1 OR US-20160183671-A1 OR US-20160183670-A1 OR US-20160120375-A1 OR US-20160113836-A1 OR US-20160074275-A1 OR US-20160037902-A1 OR US-20150359324-A1 OR US-20150305486-A1 OR US-20150265457-A1 OR US-20150202114-A1 OR US-20150189980-A1 OR US-20150173998-A1 OR US-20150173996-A1 OR US-20150173842-A1 OR US-20150165179-A1 OR US-20150164733-A1 OR US-20150150754-A1 OR US-20150141884-A1 OR US-20150119962-A1 OR US-20150065927-A1 OR US-20150057579-A1 OR US-20140366288-A1 OR US-20140330289-A1 OR US-20140305458-A1 OR US-20190167330-A1 OR US-20190148617-A1 OR US-20180352934-A1 OR US-20150272774-					

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		US-20200288843-A1 OR US-20200280680-A1 OR US-20190343712-A1 OR US-20180133470-A1 OR US-20160324719-A1 OR US-20150100002-A1 OR US-20140336540-A1 OR US-20140323927-A1 OR US-20140288364-A1 OR US-20140219701-A1 OR US-20140135798-A1 OR US-20120065555-A1 OR US-20080215123-A1 OR US-20080193493-A1 OR US-20080103560-A1 OR US-20080125835-A1 OR US-20080065176-A1 OR US-20070038206-A1 OR US-20070179573-A1 OR US-20050043653-A1 OR US-20040030325-A1 OR US-20210338478-A1 OR US-20210113365-A1 OR US-20080077211-A1 OR US-20100280582-A1 OR US-20180042761-A1 OR US-20200289161-A1 OR US-20080077201-A1 OR US-20200129219-A1 OR US-20190350752-A1 OR US-20190343686-A1 OR US-20190254866-A1 OR US-20190240110-A1 OR US-20190175396-A1 OR US-20080269851-A1 OR US-20190125577-A1 OR US-20110313498-A1 OR US-20190110931-A1 OR US-20140303697-A1 OR US-20190009110-A1 OR US-20180289531-A1 OR US-20140303696-A1 OR US-20180153736-A1 OR US-20150112195-					

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		US-20040111086-A1 OR US-20220125672-A1 OR US-20220054350-A1 OR US-20140228721-A1 OR US-20130102937-A1 OR US-20190151604-A1 OR US-20090306577-A1 OR US-20120259255-A1 OR US-20130006040-A1 OR US-20140094724-A1 OR US-20180147800-A1 OR US-20160022533-A1).did. AND PGPB.dbnm.) OR ((US-10714953-B1 OR US-6965375-B1 OR US-6245890-B1 OR US-7425947-B1 OR US-10945915-B2 OR US-10940081-B2 OR US-10702448-B2 OR US-10758452-B2 OR US-10617588-B2 OR US-10959911-B2 OR US-10470970-B2 OR US-10959908-B2 OR US-8372111-B2 OR US-7435232-B2 OR US-4669452-A OR US-3993052-A OR US-3494353-A OR US-3169521-A OR US-2078159-A OR US-1660821-A OR US-1657765-A OR US-1545027-A OR US-10314762-B1 OR US-7273159-B2 OR US-6682496-B1 OR US-10806660-B1 OR US-10993874-B1 OR US-10426691-B2 OR US-9839572-B2 OR US-6352518-B1 OR US-6228042-B1 OR US-5951501-A OR US-5593381-A OR US-5300095-A OR US-5167226-A OR US-5088474-A OR US-5085207-A OR US-4827914-A OR US-4566442-A OR US-4565189-A OR US-4513737-A OR US-					

		4495940-A OR US- 4088128-A OR US- 4079733-A OR US- 3837335-A OR US- 3626934-A OR US- 1955623-A OR US- 10428850-B2 OR US- D912835-S OR US- 11090222-B2 OR US- 10357425-B2 OR US- 10857064-B2 OR US- 10847984-B2 OR US- 10842703-B2 OR US- 10682281-B2 OR US- 7695207-B1 OR US- 4858600-A OR US- 1772501-A OR US- 11122206-B2 OR US- 10511777-B2 OR US- 6443915-B1 OR US- 7896908-B2 OR US- 7014639-B2 OR US- 6010264-A OR US- 5698866-A OR US- 5363045-A OR US- 5358503-A OR US- 5176130-A OR US- 2183726-A OR US- 1228669-A OR US- 9126034-B1 OR US- 8936542-B1 OR US- 6461377-B1 OR US- 6123657-A OR US- 6001055-A OR US- 5632720-A OR US- 5382222-A OR US- 5662593-A OR US- 5131384-A OR US- 4326508-A OR US- 4841955-A OR US- 4549535-A OR US- 6432036-B1 OR US- 9456678-B1 OR US- 10722424-B2 OR US- 9504826-B2 OR US- 9278230-B2 OR US- 9084587-B2 OR US- 8620451-B2 OR US- 2490074-A OR US- 5103809-A OR US- 3710785-A OR US- 9782604-B2 OR US- 9592405-B2 OR US- 7479136-B2 OR US- 6702837-B2 OR US- 6019482-A OR US- 5551949-A OR US- 6875225-B1 OR US-					

		6974224-B2 OR US- 6524329-B1 OR US- 6221095-B1 OR US- 4561440-A OR US- 7384405-B2 OR US- 10272011-B1 OR US- 5067480-A OR US- 4716890-A OR US- 11076685-B2 OR US- 10966514-B2 OR US- 9386843-B2 OR US- 5725483-A OR US- 5647841-A OR US- 4203431-A OR US- 4397055-A OR US- 8028707-B2 OR US- 7793419-B2 OR US- 3699952-A OR US- 2548411-A OR US- 9801448-B1 OR US- 7063476-B1 OR US- 5073058-A OR US- 4991749-A OR US- 4930923-A OR US- 4883380-A OR US- 4723860-A OR US- 4171171-A OR US- D897110-S OR US- 10307330-B1 OR US- 9132031-B2 OR US- 8864401-B2 OR US- 7959369-B2 OR US- 7644589-B2 OR US- 6416534-B1 OR US- 6336907-B1 OR US- 6090085-A OR US- 6017337-A OR US- 5800490-A OR US- 5690608-A OR US- 4920956-A OR US- 4846176-A OR US- 4745909-A OR US- 4640284-A OR US- 4502469-A OR US- 3382866-A OR US- 3154926-A OR US- 8951216-B2 OR US- 7927259-B1 OR US- 6723060-B2 OR US- 6663657-B1 OR US- 6599260-B2 OR US- 5569168-A OR US- 4730605-A OR US- 4150668-A OR US- 3452226-A OR US- 7211057-B2 OR US- 6896693-B2 OR US- 10625093-B2 OR US-					

		10695508-B2 OR US- 10383486-B2 OR US- 10376659-B2 OR US- 10124165-B2 OR US- D803572-S OR US- 9808646-B2 OR US- 9585687-B2 OR US- D765982-S OR US- D764173-S OR US- 9278045-B2 OR US- 9272141-B2 OR US- D736399-S OR US- 6766199-B2 OR US- 8945104-B2 OR US- 8506506-B2 OR US- 10881577-B2 OR US- 8397518-B1 OR US- 6438964-B1 OR US- 11241357-B2 OR US- 10821297-B2 OR US- 9962284-B2 OR US- 8523791-B2 OR US- 5746702-A OR US- 5174285-A OR US- 4741338-A OR US- 4470263-A OR US- 3099137-A OR US- 7559907-B2 OR US- 7204041-B1 OR US- 5895418-A OR US- 5097828-A OR US- 4614191-A OR US- 4519389-A OR US- D949390-S OR US- 11166863-B2 OR US- 11160721-B2 OR US- 10980704-B2 OR US- 10918565-B2 OR US- 10912707-B2 OR US- 9889066-B2 OR US- 11253423-B1 OR US- 10201470-B2 OR US- 10492984-B2 OR US- 4162675-A OR US- 4505267-A OR US- 5065743-A OR US- 5140979-A OR US- 5159922-A OR US- 5311860-A OR US- 5415621-A OR US- 5447491-A OR US- 5656018-A OR US- 5803916-A OR US- 7282037-B2 OR US- 6758826-B2 OR US- 6231497-B1).did. AND USPT.dbnm.) OR ((US- 3494353-A OR US-					

		3169521-A OR US-2078159-A OR US-1660821-A OR US-1657765-A OR US-1545027-A OR US-3536064-A OR US-2512536-A OR US-1955623-A OR US-1352894-A OR US-1339179-A OR US-1772501-A OR US-2183726-A OR US-1228669-A OR US-3467080-A OR US-2490074-A OR US-2424699-A OR US-2441682-A OR US-2548411-A OR US-2995768-A OR US-3154926-A OR US-2985166-A OR US-2809630-A OR US-2477883-A OR US-2472385-A OR US-1380986-A).did. AND USOC.dbnm.) OR ((WO-2022006086-A1 OR WO-2021222573-A1 OR WO-2021050861-A1 OR WO-2021050868-A1 OR WO-2020227569-A1 OR WO-2020167756-A1 OR WO-2020139715-A1 OR WO-2019013972-A1 OR WO-2019014031-A1 OR WO-2018170121-A1 OR WO-2016209759-A1).did. AND FTDB.dbnm.)					
L318	844	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR	(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	2022/06/07 04:23 PM

		US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20190350793-A1 OR US-20190017528-A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-A1 OR US-20180263845-A1 OR US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1 OR US-20020192231-A1 OR US-20200343746-A1 OR US-20200289365-A1 OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-A1 OR US-20210307998-A1 OR US-20200085675-A1 OR US-20210283005-A1 OR US-20190175434-A1 OR US-20170304145-A1 OR US-20170042754-A1 OR US-20150005682-A1 OR US-20130261516-A1 OR US-20070270727-A1 OR US-20060282025-A1 OR US-20030009116-A1 OR US-20210244609-A1 OR US-20210228437-A1 OR US-20210196563-A1 OR US-20210196562-A1 OR US-20210161759-A1 OR US-20210128402-A1 OR US-20210113427-A1 OR US-20210113421-					

		A1 OR US-20210077340-A1 OR US-20210022951-A1 OR US-20210000683-A1 OR US-20200393026-A1 OR US-20200390644-A1 OR US-20200357046-A1 OR US-20190254921-A1 OR US-20200315904-A1 OR US-20200289364-A1 OR US-20200276079-A1 OR US-20200268594-A1 OR US-20200261306-A1 OR US-20200230012-A1 OR US-20200155410-A1 OR US-20200113322-A1 OR US-20200000678-A1 OR US-20190365598-A1 OR US-20190262222-A1 OR US-20190247271-A1 OR US-20190159961-A1 OR US-20160045081-A1 OR US-20160184175-A1 OR US-20180031090-A1 OR US-20180031089-A1 OR US-20170304144-A1 OR US-20140031866-A1 OR US-20170049278-A1 OR US-20160184177-A1 OR US-20160113840-A1 OR US-20150265825-A1 OR US-20150174387-A1 OR US-20140188169-A1 OR US-20090236359-A1 OR US-20100137907-A1 OR US-20030158505-A1 OR US-20050222525-A1 OR US-20050187498-A1 OR US-20020082532-A1 OR US-20020082536-A1 OR US-20210259915-A1 OR US-20210186800-A1 OR US-20210177692-A1 OR US-20200330321-A1 OR					

		US-20140194900-A1 OR US-20210100718-A1 OR US-20200390645-A1 OR US-20190254922-A1 OR US-20200222263-A1 OR US-20160213558-A1 OR US-20180050440-A1 OR US-20050131461-A1 OR US-20050075591-A1 OR US-20200009010-A1 OR US-20190247270-A1 OR US-20160151238-A1 OR US-20150297393-A1 OR US-20150283026-A1 OR US-20140276255-A1 OR US-20140194790-A1 OR US-20120253245-A1 OR US-20180295980-A1 OR US-20170189670-A1 OR US-20160206087-A1 OR US-20160184173-A1 OR US-20160184162-A1 OR US-20150333609-A1 OR US-20150182290-A1 OR US-20110040235-A1 OR US-20090222072-A1 OR US-20090163984-A1 OR US-20070206986-A1 OR US-20040147984-A1 OR US-20040024438-A1 OR US-20200086137-A1 OR US-20150305969-A1 OR US-20140378555-A1 OR US-20130060176-A1 OR US-20110184499-A1 OR US-20110106067-A1 OR US-20110098781-A1 OR US-20100292746-A1 OR US-20100210993-A1 OR US-20100121419-A1 OR US-20100049177-A1 OR US-20090177125-A1 OR US-20060058714-A1 OR US-20080119913-					

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		US-20190142689-A1 OR US-20180185236-A1 OR US-20170360652-A1 OR US-20170319429-A1 OR US-20170128130-A1 OR US-20160256348-A1 OR US-20140142472-A1 OR US-20050142093-A1 OR US-20050107724-A1 OR US-20030004441-A1 OR US-20210145686-A1 OR US-20210038472-A1 OR US-20200179220-A1 OR US-20200129372-A1 OR US-20190262607-A1 OR US-20200154874-A1 OR US-20160228184-A1 OR US-20100274329-A1 OR US-20100137752-A1 OR US-20030163068-A1 OR US-20190142691-A1 OR US-20180360203-A1 OR US-20180256439-A1 OR US-20180178032-A1 OR US-20180140860-A1 OR US-20150283025-A1 OR US-20140088668-A1 OR US-20130131559-A1 OR US-20120265274-A1 OR US-20110060254-A1 OR US-20080275532-A1 OR US-20080018167-A1 OR US-20060235341-A1 OR US-20090270915-A1 OR US-20060293711-A1 OR US-20200237085-A1 OR US-20160192814-A1 OR US-20210045521-A1 OR US-20200411161-A1 OR US-20200405047-A1 OR US-20200352317-A1 OR US-20200323337-A1 OR US-20200237604-A1 OR US-20200187635-					

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L319	29000	a61h23/02,006.cpc.	(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	2022/06/07 04:32 PM

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			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)				
L320	15917	a61h23/02,006.cpc.	(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))	OR	ON	ON	2022/06/07 04:33 PM
L321	1170	a46b2200/102.cpc.	(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))	OR	ON	ON	2022/06/07 04:33 PM
L322	6216	a46b13/02.cpc.	(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))	OR	ON	ON	2022/06/07 04:33 PM
L323	6969	a61m35/003.cpc.	(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,	OR	ON	ON	2022/06/07 04:33 PM

			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))				
L324	29489	320 321 322 323	(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))	OR	ON	ON	2022/06/07 04:34 PM
L326	16901	a61h2201/10,105.cpc.	(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))	OR	ON	ON	2022/06/07 04:34 PM
L327	2894	a61h15/02.cpc.	(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))	OR	ON	ON	2022/06/07 04:34 PM
L328	5188	a61n2005/0644.cpc.	(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	2022/06/07 04:34 PM

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			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))				
L329	10884	a61n5/0616.cpc.	(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))	OR	ON	ON	2022/06/07 04:34 PM
L330	2999	a61n1/328.cpc.	(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))	OR	ON	ON	2022/06/07 04:35 PM
L332	1205	a61f2007/0087.cpc.	(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))	OR	ON	ON	2022/06/07 04:35 PM
L333	33405	326 327 328 329 330 332	(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	2022/06/07 04:35 PM

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			NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))				
L334	4111	324 AND 333	(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))	OR	ON	ON	2022/06/07 04:35 PM
L335	4104	334 NOT (@ad>="20220326")	(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))	OR	ON	ON	2022/06/07 04:36 PM
L336	4021	335 NOT 318	(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))	OR	ON	ON	2022/06/07 04:36 PM
L337	2533	336 AND (ring annular oval circumferen$4 surround$4 toroid$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,	OR	ON	ON	2022/06/07 04:37 PM

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			PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO))				
L338	3102	336 AND (cold heat$3 thermoelectric$4 thermal led phototherap$4 diode laser lllt (light near2 therapy) microcurrent ultrasound)	(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))	OR	ON	ON	2022/06/07 04:41 PM
L339	39	(Artificial Intelligence) More like doc: US-11331244-B2 Text: (CN-113769272-A OR US-10993874-B1 OR WO-2022098649-A1 OR US-20220133585-A1 OR DE-102020123082-A1 OR WO-2021098835-A1 OR CN-214105580-U OR CN-112827062-A OR CN-112117614-A OR CN-112891736-A OR WO-2022006086-A1 OR CN-112932935-A OR KR-102396975-B1 OR US-20220125672-A1 OR US-20210401663-A1 OR CN-113855514-A OR US-20170056145-A1 OR US-10653581-B2 OR US-20200046602-A1 OR EP-3820425-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	2022/06/07 04:43 PM
L340	40	(Artificial Intelligence) More like doc: US-20220125672-A1 Text: (CN-113769272-A OR US-10993874-B1 OR WO-2022098649-A1 OR US-20220133585-A1 OR CN-112932935-A OR DE-202021102250-U1 OR US-11331244-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,	OR	ON	ON	2022/06/07 04:46 PM

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		CN-215385795-U OR CN-112353653-A OR KR-20170003668-U OR CN-111904835-A OR DE-2429940-C3 OR US-20170056145-A1 OR WO-2022006086-A1 OR US-20210401663-A1 OR CN-215133032-U OR CN-111803350-A OR US-20210361518-A1 OR US-5176130-A OR KR-102133724-B1).did.	TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L341	17	("20090240310" "5320617" "20140296772" "20050113725" "20180325328" "20140222026").pn.	(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	2022/06/07 05:09 PM
L342	38	(Artificial Intelligence) More like doc: WO-2021211238-A1 Text: (US-5320617-A OR US-20090240310-A1 OR CN-113645886-A OR WO-2007090256-A1 OR US-20070185553-A1 OR EP-3125999-B1 OR KR-102054265-B1 OR US-20210077338-A1 OR US-20210154093-A1 OR JP-2016502432-A OR FR-3037810-B1 OR JP-6861701-B2 OR US-20180178032-A1 OR WO-2021210750-A1 OR FR-2986980-B1 OR KR-101370160-B1 OR US-20210001148-A1 OR US-20140135798-A1 OR EP-2941235-A1 OR WO-2014078444-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	2022/06/07 05:12 PM
L343	51	(Artificial Intelligence)	(US-PGPUB; USPAT;	OR	ON	ON	2022/06/07

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		More like doc: CN-112245261-A Text: (CN-114010482-A OR CN-213490366-U OR CN-215779811-U OR CN-112891186-A OR CN-113274276-A OR CN-213431576-U OR CN-215779810-U OR CN-112315773-A OR CN-213157619-U OR CN-216439596-U OR CN-214105586-U OR CN-212466549-U OR CN-210844180-U OR CN-113648197-A OR CN-113101177-A OR CN-214859044-U OR CN-209933448-U OR CN-215938255-U OR CN-211561578-U OR CN-110947093-A).did.	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)				11:42 PM
L344	530	("10016337"|"10124165"|"10137054"|"10252051"|"10278888"|"10285722"|"10307330"|"10376659"|"10383486"|"10511777"|"10518097"|"10625093"|"10661072"|"10695508"|"10737107"|"10758452"|"10821299"|"10857064"|"10881577"|"10945915"|"1955863"|"20040030325"|"20040147984"|"20050043653"|"20070038206"|"20070179573"|"20070198004"|"20070213696"|"20070213698"|"20070239142"|"20070239143"|"20080014011"|"20080065176"|"20080103560"|"20080103563"|"20080119913"|"20080125835"|"20080193493"|"20080215123"|"20080275532"|"20090043293"|"20090234338"|"20090287195"|"20100121419"|"20100137752"|"20100274162"|"20100274329"|"20100312157"|"20110040235"|"20110106067"|"20110184499"|"20120065555"|"20120109041"|"20120310124"|"20130012	(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	2022/06/08 01:25 AM

		851"|"20130046212"|"2 0130060176"|"2014012 8780"|"20140135798"|" 20140219701"|"201402 76255"|"20140288364"| "20140323927"|"20140 336540"|"20140371637 "|"20140378555"|"2015 0045702"|"2015010000 2"|"20150119771"|"201 50224020"|"201502658 25"|"20150283025"|"20 150297393"|"20150305 969"|"20160184162"|"2 0160324719"|"2017004 9278"|"20170056685"|" 20170072175"|"201701 28130"|"20170189670"| "20170202732"|"20170 238686"|"20180015299 "|"20180031089"|"2018 0031090"|"2018013347 0"|"20180168318"|"201 80185236"|"201902401 10"|"20190254922"|"20 190262607"|"20190343 712"|"20190388707"|"2 0200038673"|"2020008 6137"|"20200093945"|" 20200113322"|"202001 29372"|"20200179220"| "20200215351"|"20200 237085"|"20200237604 "|"20200253811"|"2020 0268594"|"2020028068 0"|"20200288843"|"202 00352306"|"202003523 17"|"20200390468"|"20 210001148"|"20210128 402"|"2183726"|"48586 00"|"5103809"|"652432 9"|"6535761"|"6743215" |"6748266"|"6766199"|" 6974224"|"6980854"|"7 010343"|"7014639"|"70 83580"|"7204832"|"725 8675"|"7282036"|"7305 269"|"7376460"|"74719 79"|"7532926"|"810532 2"|"8157753"|"8182473" |"8382690"|"8506506"|" 8523791"|"8540702"|"8 655448"|"8696605"|"89 06009"|"8945104"|"902 3021"|"9042993"|"9084 587"|"9272141"|"92780 45"|"9386837"|"957925 0"|"9585687"|"9808646"					

		|"9872813"|"9925006"|"D693932"|"D736399"|"D764173"|"D765982"|"D803572").PN.					
L345	228	("10016337"|"10124165"|"10137054"|"10252051"|"10278888"|"10285722"|"10307330"|"10376659"|"10383486"|"10511777"|"10518097"|"10625093"|"10661072"|"10695508"|"10737107"|"10758452"|"10821299"|"10857064"|"10881577"|"10945915"|"1955863"|"20040030325"|"20040147984"|"20050043653"|"20070038206"|"20070179573"|"20070198004"|"20070213696"|"20070213698"|"20070239142"|"20070239143"|"20080014011"|"20080065176"|"20080103560"|"20080103563"|"20080119913"|"20080125835"|"20080193493"|"20080215123"|"20080275532"|"20090043293"|"20090234338"|"20090287195"|"20100121419"|"20100137752"|"20100274162"|"20100274329"|"20100312157"|"20110040235"|"20110106067"|"20110184499"|"20120065555"|"20120109041"|"20120310124"|"20130012851"|"20130046212"|"20130060176"|"20140128780"|"20140135798"|"20140219701"|"20140276255"|"20140288364"|"20140323927"|"20140336540"|"20140371637"|"20140378555"|"20150045702"|"20150100002"|"20150119771"|"20150224020"|"20150265825"|"20150283025"|"20150297393"|"20150305969"|"20160184162"|"20160324719"|"20170049278"|"20170056685"|"20170072175"|"20170128130"|"20170189670"|"20170202732"|"20170238686"|"20180015299	(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	2022/06/08 01:26 AM

		"|"20180031089"|"2018 0031090"|"2018013347 0"|"20180168318"|"201 80185236"|"201902401 10"|"20190254922"|"20 190262607"|"20190343 712"|"20190388707"|"2 0200038673"|"2020008 6137"|"20200093945"|" 20200113322"|"202001 29372"|"20200179220"| "20200215351"|"20200 237085"|"20200237604 "|"20200253811"|"2020 0268594"|"2020028068 0"|"20200288843"|"202 00352306"|"202003523 17"|"20200390468"|"20 210001148"|"20210128 402"|"2183726"|"48586 00"|"5103809"|"652432 9"|"6535761"|"6743215" |"6748266"|"6766199"|" 6974224"|"6980854"|"7 010343"|"7014639"|"70 83580"|"7204832"|"725 8675"|"7282036"|"7305 269"|"7376460"|"74719 79"|"7532926"|"810532 2"|"8157753"|"8182473" |"8382690"|"8506506"|" 8523791"|"8540702"|"8 655448"|"8696605"|"89 06009"|"8945104"|"902 3021"|"9042993"|"9084 587"|"9272141"|"92780 45"|"9386837"|"957925 0"|"9585687"|"9808646" |"9872813"|"9925006"|" D693932"|"D736399"|" D764173"|"D765982"|" D803572").PN.					
L346	4	("20180185236" "20180031090" "20190343686").pn.	(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	2022/06/08 01:34 AM
L347	12	("20030130690"|"54682	(US-PGPUB; USPAT;	OR	ON	ON	2022/06/08

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		20"|"5702355"|"6146347"|"6942631"|"6953440"|"7238163").PN.	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))				11:51 AM
L348	986	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20190350793-A1 OR US-20190017528-A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-A1 OR US-20180263845-A1 OR US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1 OR US-20020192231-A1 OR US-20200343746-A1 OR US-20200289365-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); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/06/08 04:59 PM

		OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-A1 OR US-20210307998-A1 OR US-20200085675-A1 OR US-20210283005-A1 OR US-20190175434-A1 OR US-20170304145-A1 OR US-20170042754-A1 OR US-20150005682-A1 OR US-20130261516-A1 OR US-20070270727-A1 OR US-20060282025-A1 OR US-20030009116-A1 OR US-20210244609-A1 OR US-20210228437-A1 OR US-20210196563-A1 OR US-20210196562-A1 OR US-20210161759-A1 OR US-20210128402-A1 OR US-20210113427-A1 OR US-20210113421-A1 OR US-20210077340-A1 OR US-20210022951-A1 OR US-20210000683-A1 OR US-20200393026-A1 OR US-20200390644-A1 OR US-20200357046-A1 OR US-20190254921-A1 OR US-20200315904-A1 OR US-20200289364-A1 OR US-20200276079-A1 OR US-20200268594-A1 OR US-20200261306-A1 OR US-20200230012-A1 OR US-20200155410-A1 OR US-20200113322-A1 OR US-20200000678-A1 OR US-20190365598-A1 OR US-20190262222-A1 OR US-20190247271-A1 OR US-20190159961-A1 OR US-20160045081-A1 OR US-					

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		3626934-A OR US- 1955623-A OR US- 10428850-B2 OR US- D912835-S OR US- 11090222-B2 OR US- 10357425-B2 OR US- 10857064-B2 OR US- 10847984-B2 OR US- 10842703-B2 OR US- 10682281-B2 OR US- 7695207-B1 OR US- 4858600-A OR US- 1772501-A OR US- 11122206-B2 OR US- 10511777-B2 OR US- 6443915-B1 OR US- 7896908-B2 OR US- 7014639-B2 OR US- 6010264-A OR US- 5698866-A OR US- 5363045-A OR US- 5358503-A OR US- 5176130-A OR US- 2183726-A OR US- 1228669-A OR US- 9126034-B1 OR US- 8936542-B1 OR US- 6461377-B1 OR US- 6123657-A OR US- 6001055-A OR US- 5632720-A OR US- 5382222-A OR US- 5662593-A OR US- 5131384-A OR US- 4326508-A OR US- 4841955-A OR US- 4549535-A OR US- 6432036-B1 OR US- 9456678-B1 OR US- 10722424-B2 OR US- 9504826-B2 OR US- 9278230-B2 OR US- 9084587-B2 OR US- 8620451-B2 OR US- 2490074-A OR US- 5103809-A OR US- 3710785-A OR US- 9782604-B2 OR US- 9592405-B2 OR US- 7479136-B2 OR US- 6702837-B2 OR US- 6019482-A OR US- 5551949-A OR US- 6875225-B1 OR US- 6974224-B2 OR US- 6524329-B1 OR US- 6221095-B1 OR US- 4561440-A OR US-					

		7384405-B2 OR US- 10272011-B1 OR US- 5067480-A OR US- 4716890-A OR US- 11076685-B2 OR US- 10966514-B2 OR US- 9386843-B2 OR US- 5725483-A OR US- 5647841-A OR US- 4203431-A OR US- 4397055-A OR US- 8028707-B2 OR US- 7793419-B2 OR US- 3699952-A OR US- 2548411-A OR US- 9801448-B1 OR US- 7063476-B1 OR US- 5073058-A OR US- 4991749-A OR US- 4930923-A OR US- 4883380-A OR US- 4723860-A OR US- 4171171-A OR US- D897110-S OR US- 10307330-B1 OR US- 9132031-B2 OR US- 8864401-B2 OR US- 7959369-B2 OR US- 7644589-B2 OR US- 6416534-B1 OR US- 6336907-B1 OR US- 6090085-A OR US- 6017337-A OR US- 5800490-A OR US- 5690608-A OR US- 4920956-A OR US- 4846176-A OR US- 4745909-A OR US- 4640284-A OR US- 4502469-A OR US- 3382866-A OR US- 3154926-A OR US- 8951216-B2 OR US- 7927259-B1 OR US- 6723060-B2 OR US- 6663657-B1 OR US- 6599260-B2 OR US- 5569168-A OR US- 4730605-A OR US- 4150668-A OR US- 3452226-A OR US- 7211057-B2 OR US- 6896693-B2 OR US- 10625093-B2 OR US- 10695508-B2 OR US- 10383486-B2 OR US- 10376659-B2 OR US- 10124165-B2 OR US-				

		D803572-S OR US- 9808646-B2 OR US- 9585687-B2 OR US- D765982-S OR US- D764173-S OR US- 9278045-B2 OR US- 9272141-B2 OR US- D736399-S OR US- 6766199-B2 OR US- 8945104-B2 OR US- 8506506-B2 OR US- 10881577-B2 OR US- 8397518-B1 OR US- 6438964-B1 OR US- 11241357-B2 OR US- 10821297-B2 OR US- 9962284-B2 OR US- 8523791-B2 OR US- 5746702-A OR US- 5174285-A OR US- 4741338-A OR US- 4470263-A OR US- 3099137-A OR US- 7559907-B2 OR US- 7204041-B1 OR US- 5895418-A OR US- 5097828-A OR US- 4614191-A OR US- 4519389-A OR US- D949390-S OR US- 11166863-B2 OR US- 11160721-B2 OR US- 10980704-B2 OR US- 10918565-B2 OR US- 10912707-B2 OR US- 9889066-B2 OR US- 11253423-B1 OR US- 10201470-B2 OR US- 10492984-B2 OR US- 4162675-A OR US- 4505267-A OR US- 5065743-A OR US- 5140979-A OR US- 5159922-A OR US- 5311860-A OR US- 5415621-A OR US- 5447491-A OR US- 5656018-A OR US- 5803916-A OR US- 7282037-B2 OR US- 6758826-B2 OR US- 6231497-B1 OR US- 11110260-B1 OR US- 10966515-B2 OR US- 10737107-B2 OR US- 10688290-B1 OR US- 10661072-B2 OR US- 7083580-B2 OR US-				

		6748266-B2 OR US-D693932-S OR US-6535761-B2 OR US-10518097-B2 OR US-10285722-B2 OR US-7282036-B2 OR US-7258675-B2 OR US-10252051-B2 OR US-6743215-B2 OR US-8382690-B2 OR US-10278888-B2 OR US-8157753-B2 OR US-6980854-B2 OR US-7204832-B2).did. AND USPT.dbnm.) OR ((US-3494353-A OR US-3169521-A OR US-2078159-A OR US-1660821-A OR US-1657765-A OR US-1545027-A OR US-3536064-A OR US-2512536-A OR US-1955623-A OR US-1352894-A OR US-1339179-A OR US-1772501-A OR US-2183726-A OR US-1228669-A OR US-3467080-A OR US-2490074-A OR US-2424699-A OR US-2441682-A OR US-2548411-A OR US-2995768-A OR US-3154926-A OR US-2985166-A OR US-2809630-A OR US-2477883-A OR US-2472385-A OR US-1380986-A OR US-1955863-A).did. AND USOC.dbnm.) OR ((WO-2022006086-A1 OR WO-2021222573-A1 OR WO-2021050861-A1 OR WO-2021050868-A1 OR WO-2020227569-A1 OR WO-2020167756-A1 OR WO-2020139715-A1 OR WO-2019013972-A1 OR WO-2019014031-A1 OR WO-2018170121-A1 OR WO-2016209759-A1 OR CN-215133032-					

		U OR CN-112932935-A OR DE-102020123082-A1 OR CN-113855514-A OR KR-20220062350-A OR KR-20220058677-A OR KR-20220030711-A OR CN-114010485-A OR KR-102325386-B1 OR WO-2021210750-A1 OR WO-2021211238-A1 OR CN-113350154-A OR CN-113274276-A OR KR-20210095422-A OR KR-20210091842-A OR CN-113116702-A OR CN-113081751-A OR CN-213490366-U OR CN-112791308-A OR CN-112773696-A OR CN-112741964-A OR KR-20210047406-A OR KR-20210044358-A OR KR-20210044035-A OR CN-112618960-A OR KR-20210036430-A OR KR-20210000722-U OR CN-112370646-A OR KR-20210018636-A OR KR-20210016729-A OR CN-112315773-A OR KR-20210013392-A OR CN-112245261-A OR CN-216439596-U OR CN-215938255-U OR CN-215779811-U OR CN-214859044-U OR CN-112891186-A OR CN-213157619-U OR CN-210844180-U OR CN-209933448-U OR KR-20210001066-A OR CN-111973428-A OR KR-102178263-B1 OR KR-20200126252-A OR CN-111821150-A OR WO-2020209497-A1 OR KR-102161933-B1 OR KR-20200100378-A OR WO-2020163738-A1 OR WO-2020159727-A1 OR KR-20200063823-A OR KR-102118572-B1 OR KR-20200051098-A OR KR-20200050488-A OR CN-111109818-A OR					

		KR-20200040003-A OR EP-3626122-A1 OR WO-2020018713-A1 OR CN-110711134-A OR KR-102067323-B1 OR CN-110478222-A OR WO-2019207469-A1 OR WO-2019203423-A1 OR CN-110339042-A OR CN-110302051-A OR CN-110101563-A OR CN-109998891-A OR WO-2019118561-A1 OR WO-2019097291-A1 OR CN-109620684-A OR CN-109394489-A OR CN-109350862-A OR CN-109223500-A OR CN-108671405-A OR KR-20180113097-A OR KR-20180002806-U OR KR-101891952-B1 OR CN-108543126-A OR CN-108542741-A OR CN-108451704-A OR CN-108451705-A OR KR-20180094694-A OR CN-108392388-A OR WO-2018135671-A1 OR WO-2018126135-A1 OR CN-108175673-A OR WO-2018094540-A1 OR CA-3045164-A1 OR KR-101852410-B1).did. AND FTDB.dbnm.) OR ((US-20220133585-A1 OR CN-215133032-U OR US-10993874-B1 OR JP-2020171460-A OR US-20190254922-A1 OR US-20170056145-A1 OR US-5176130-A OR CN-113855514-A OR US-20180325328-A1 OR WO-2013021380-A1 OR US-20070185553-A1 OR EP-1525872-A1 OR US-20140135798-A1 OR US-20180178032-A1 OR US-20210001148-A1 OR US-20210077338-A1 OR US-20210154093-A1).did. AND DWPI.dbnm.)					

L349	46	("20180031090" "20150119771" "20140031866" "20150005682" "20190350793" "20100121419" "20160184162" "20180050440" "20150045702" "20190017528" "20100274162" "20150297393" "20160192814" "4513737" KR-20200051098).pn.	(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	2022/06/08 05:06 PM
L350	22	("20180031090" "20150119771" "20140031866" "20150005682" "20190350793" "20100121419" "20160184162" "20180050440" "20150045702" "20190017528" "20100274162" "20150297393" "20160192814" "4513737" KR-20200051098).pn.	(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	2022/06/08 09:49 PM
L351	986	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20190350793-A1 OR US-20190017528-A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-	(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	2022/06/08 11:22 PM

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

		A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-A1 OR US-20180263845-A1 OR US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1 OR US-20020192231-A1 OR US-20200343746-A1 OR US-20200289365-A1 OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-A1 OR US-20210307998-A1 OR US-20200085675-A1 OR US-20210283005-A1 OR US-20190175434-A1 OR US-20170304145-A1 OR US-20170042754-A1 OR US-20150005682-A1 OR US-20130261516-A1 OR US-20070270727-A1 OR US-20060282025-A1 OR US-20030009116-A1 OR US-20210244609-A1 OR US-20210228437-A1 OR US-20210196563-A1 OR US-20210196562-A1 OR US-20210161759-A1 OR US-20210128402-A1 OR US-20210113427-A1 OR US-20210113421-A1 OR US-20210077340-A1 OR US-20210022951-A1 OR US-20210000683-A1 OR US-20200393026-A1 OR US-20200390644-A1 OR US-20200357046-A1 OR US-20190254921-A1 OR					

		US-20200315904-A1 OR US-20200289364-A1 OR US-20200276079-A1 OR US-20200268594-A1 OR US-20200261306-A1 OR US-20200230012-A1 OR US-20200155410-A1 OR US-20200113322-A1 OR US-20200000678-A1 OR US-20190365598-A1 OR US-20190262222-A1 OR US-20190247271-A1 OR US-20190159961-A1 OR US-20160045081-A1 OR US-20160184175-A1 OR US-20180031090-A1 OR US-20180031089-A1 OR US-20170304144-A1 OR US-20140031866-A1 OR US-20170049278-A1 OR US-20160184177-A1 OR US-20160113840-A1 OR US-20150265825-A1 OR US-20150174387-A1 OR US-20140188169-A1 OR US-20090236359-A1 OR US-20100137907-A1 OR US-20030158505-A1 OR US-20050222525-A1 OR US-20050187498-A1 OR US-20020082532-A1 OR US-20020082536-A1 OR US-20210259915-A1 OR US-20210186800-A1 OR US-20210177692-A1 OR US-20200330321-A1 OR US-20140194900-A1 OR US-20210100718-A1 OR US-20200390645-A1 OR US-20190254922-A1 OR US-20200222263-A1 OR US-20160213558-A1 OR US-20180050440-A1 OR US-20050131461-					

		A1 OR US-20050075591-A1 OR US-20200009010-A1 OR US-20190247270-A1 OR US-20160151238-A1 OR US-20150297393-A1 OR US-20150283026-A1 OR US-20140276255-A1 OR US-20140194790-A1 OR US-20120253245-A1 OR US-20180295980-A1 OR US-20170189670-A1 OR US-20160206087-A1 OR US-20160184173-A1 OR US-20160184162-A1 OR US-20150333609-A1 OR US-20150182290-A1 OR US-20110040235-A1 OR US-20090222072-A1 OR US-20090163984-A1 OR US-20070206986-A1 OR US-20040147984-A1 OR US-20040024438-A1 OR US-20200086137-A1 OR US-20150305969-A1 OR US-20140378555-A1 OR US-20130060176-A1 OR US-20110184499-A1 OR US-20110106067-A1 OR US-20110098781-A1 OR US-20100292746-A1 OR US-20100210993-A1 OR US-20100121419-A1 OR US-20100049177-A1 OR US-20090177125-A1 OR US-20060058714-A1 OR US-20080119913-A1 OR US-20060253051-A1 OR US-20050075149-A1 OR US-20120209357-A1 OR US-20120121309-A1 OR US-20110092863-A1 OR US-20110091265-A1 OR US-20090287195-A1 OR					

		US-20090234423-A1 OR US-20090088824-A1 OR US-20090048557-A1 OR US-20080172045-A1 OR US-20080154162-A1 OR US-20080014011-A1 OR US-20160158568-A1 OR US-20150150599-A1 OR US-20150045702-A1 OR US-20140194668-A1 OR US-20140128780-A1 OR US-20130046212-A1 OR US-20130030506-A1 OR US-20110144410-A1 OR US-20110032960-A1 OR US-20100179456-A1 OR US-20100081858-A1 OR US-20090270779-A1 OR US-20090005631-A1 OR US-20080214968-A1 OR US-20070185553-A1 OR US-20070073366-A1 OR US-20070073198-A1 OR US-20070027411-A1 OR US-20060047330-A1 OR US-20050131497-A1 OR US-20050070977-A1 OR US-20050045189-A1 OR US-20040260210-A1 OR US-20040030370-A1 OR US-20210275224-A1 OR US-20210059396-A1 OR US-20080262394-A1 OR US-20090299236-A1 OR US-20200170879-A1 OR US-20190209425-A1 OR US-20190142689-A1 OR US-20180185236-A1 OR US-20170360652-A1 OR US-20170319429-A1 OR US-20170128130-A1 OR US-20160256348-A1 OR US-20140142472-A1 OR US-20050142093-					

		A1 OR US-20050107724-A1 OR US-20030004441-A1 OR US-20210145686-A1 OR US-20210038472-A1 OR US-20200179220-A1 OR US-20200129372-A1 OR US-20190262607-A1 OR US-20200154874-A1 OR US-20160228184-A1 OR US-20100274329-A1 OR US-20100137752-A1 OR US-20030163068-A1 OR US-20190142691-A1 OR US-20180360203-A1 OR US-20180256439-A1 OR US-20180178032-A1 OR US-20180140860-A1 OR US-20150283025-A1 OR US-20140088668-A1 OR US-20130131559-A1 OR US-20120265274-A1 OR US-20110060254-A1 OR US-20080275532-A1 OR US-20080018167-A1 OR US-20060235341-A1 OR US-20090270915-A1 OR US-20060293711-A1 OR US-20200237085-A1 OR US-20160192814-A1 OR US-20210045521-A1 OR US-20200411161-A1 OR US-20200405047-A1 OR US-20200352317-A1 OR US-20200323337-A1 OR US-20200237604-A1 OR US-20200187635-A1 OR US-20200170399-A1 OR US-20200093945-A1 OR US-20200093252-A1 OR US-20200085684-A1 OR US-20200038673-A1 OR US-20200038530-A1 OR US-20200037747-A1 OR					

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		US-20150205279-A1 OR US-20070217199-A1 OR US-20070213698-A1 OR US-20210322257-A1 OR US-20170007498-A1 OR US-20210121360-A1 OR US-20200281805-A1 OR US-20200046602-A1 OR US-20200093410-A1 OR US-20140046127-A1 OR US-20150005679-A1 OR US-20170156974-A1 OR US-20180361137-A1 OR US-20180185238-A1 OR US-20180140813-A1 OR US-20180104144-A1 OR US-20170202732-A1 OR US-20170095689-A1 OR US-20170079865-A1 OR US-20170065480-A1 OR US-20160324717-A1 OR US-20160271009-A1 OR US-20160175185-A1 OR US-20160045393-A1 OR US-20150045192-A1 OR US-20100331745-A1 OR US-20090306561-A1 OR US-20060025710-A1 OR US-20030195443-A1 OR US-20040193079-A1 OR US-20030149381-A1 OR US-20030014079-A1 OR US-20140194794-A1 OR US-20150320636-A1 OR US-20150313638-A1 OR US-20080082028-A1 OR US-20070244416-A1 OR US-20060052729-A1 OR US-20060009719-A1 OR US-20050137504-A1 OR US-20210196557-A1 OR US-20210195713-A1 OR US-20200215350-A1 OR US-20180242711-					

		A1 OR US-20180092449-A1 OR US-20160270821-A1 OR US-20160256017-A1 OR US-20160128461-A1 OR US-20150257521-A1 OR US-20150182078-A1 OR US-20140309662-A1 OR US-20110041864-A1 OR US-20100222719-A1 OR US-20080167590-A1 OR US-20080172112-A1 OR US-20080125682-A1 OR US-20060276731-A1 OR US-20060276730-A1 OR US-20060135319-A1 OR US-20050278876-A1 OR US-20050277950-A1 OR US-20120310124-A1 OR US-20220039535-A1 OR US-20210244170-A1 OR US-20050138740-A1 OR US-20180027942-A1 OR US-20160324373-A1 OR US-20150034113-A1 OR US-20140356045-A1 OR US-20110270274-A1 OR US-20040249320-A1 OR US-20210401663-A1 OR US-20140371637-A1 OR US-20200397611-A1 OR US-20200129327-A1 OR US-20200100936-A1 OR US-20200069936-A1 OR US-20200037745-A1 OR US-20190290531-A1 OR US-20190191937-A1 OR US-20190104774-A1 OR US-20190060159-A1 OR US-20190001503-A1 OR US-20180214304-A1 OR US-20180098615-A1 OR US-20170367471-A1 OR US-20170360648-A1 OR					

		US-20170347789-A1 OR US-20170224098-A1 OR US-20170194849-A1 OR US-20170194848-A1 OR US-20170189227-A1 OR US-20170181924-A1 OR US-20170172834-A1 OR US-20170042386-A1 OR US-20160287034-A1 OR US-20160223269-A1 OR US-20160190902-A1 OR US-20160184176-A1 OR US-20160184171-A1 OR US-20160183671-A1 OR US-20160183670-A1 OR US-20160120375-A1 OR US-20160113836-A1 OR US-20160074275-A1 OR US-20160037902-A1 OR US-20150359324-A1 OR US-20150305486-A1 OR US-20150265457-A1 OR US-20150202114-A1 OR US-20150189980-A1 OR US-20150173998-A1 OR US-20150173996-A1 OR US-20150173842-A1 OR US-20150165179-A1 OR US-20150164733-A1 OR US-20150150754-A1 OR US-20150141884-A1 OR US-20150119962-A1 OR US-20150065927-A1 OR US-20150057579-A1 OR US-20140366288-A1 OR US-20140330289-A1 OR US-20140305458-A1 OR US-20190167330-A1 OR US-20190148617-A1 OR US-20180352934-A1 OR US-20150272774-A1 OR US-20140221880-A1 OR US-20140005759-A1 OR US-20130331914-					

		A1 OR US-20130281893-A1 OR US-20130197405-A1 OR US-20130085556-A1 OR US-20120265108-A1 OR US-20120265106-A1 OR US-20120209363-A1 OR US-20120209154-A1 OR US-20120172771-A1 OR US-20120165708-A1 OR US-20110202048-A1 OR US-20110200381-A1 OR US-20100087762-A1 OR US-20100056964-A1 OR US-20030100936-A1 OR US-20090264971-A1 OR US-20080264464-A1 OR US-20080188915-A1 OR US-20080168605-A1 OR US-20080168595-A1 OR US-20080141681-A1 OR US-20070255187-A1 OR US-20060135911-A1 OR US-20060064147-A1 OR US-20060060184-A1 OR US-20050209663-A1 OR US-20050209537-A1 OR US-20050203445-A1 OR US-20040171970-A1 OR US-20030163176-A1 OR US-20030014096-A1 OR US-20180279843-A1 OR US-20180243158-A1 OR US-20180008512-A1 OR US-20150148592-A1 OR US-20130138023-A1 OR US-20070150004-A1 OR US-20150360024-A1 OR US-20160121108-A1 OR US-20210001148-A1 OR US-20200390468-A1 OR US-20200288843-A1 OR US-20200280680-A1 OR US-20190343712-A1 OR					

		US-20180133470-A1 OR US-20160324719-A1 OR US-20150100002-A1 OR US-20140336540-A1 OR US-20140323927-A1 OR US-20140288364-A1 OR US-20140219701-A1 OR US-20140135798-A1 OR US-20120065555-A1 OR US-20080215123-A1 OR US-20080193493-A1 OR US-20080103560-A1 OR US-20080125835-A1 OR US-20080065176-A1 OR US-20070038206-A1 OR US-20070179573-A1 OR US-20050043653-A1 OR US-20040030325-A1 OR US-20210338478-A1 OR US-20210113365-A1 OR US-20080077211-A1 OR US-20100280582-A1 OR US-20180042761-A1 OR US-20200289161-A1 OR US-20080077201-A1 OR US-20200129219-A1 OR US-20190350752-A1 OR US-20190343686-A1 OR US-20190254866-A1 OR US-20190240110-A1 OR US-20190175396-A1 OR US-20080269851-A1 OR US-20190125577-A1 OR US-20110313498-A1 OR US-20190110931-A1 OR US-20140303697-A1 OR US-20190009110-A1 OR US-20180289531-A1 OR US-20140303696-A1 OR US-20180153736-A1 OR US-20150112195-A1 OR US-20180064574-A1 OR US-20170333667-A1 OR US-20170196729-					

		A1 OR US-20170035602-A1 OR US-20160270951-A1 OR US-20160242956-A1 OR US-20160178251-A1 OR US-20160074210-A1 OR US-20140260331-A1 OR US-20150182375-A1 OR US-20150127077-A1 OR US-20150121900-A1 OR US-20140358204-A1 OR US-20130238043-A1 OR US-20120198616-A1 OR US-20100198322-A1 OR US-20100185267-A1 OR US-20090306748-A1 OR US-20090093864-A1 OR US-20080300529-A1 OR US-20080046047-A1 OR US-20020091425-A1 OR US-20020156509-A1 OR US-20220047412-A1 OR US-20210290430-A1 OR US-20210212883-A1 OR US-20210123641-A1 OR US-20200375840-A1 OR US-20200352459-A1 OR US-20200246520-A1 OR US-20150320590-A1 OR US-20190336326-A1 OR US-20190117445-A1 OR US-20160000600-A1 OR US-20100217349-A1 OR US-20100036295-A1 OR US-20070193278-A1 OR US-20120316624-A1 OR US-20210128058-A1 OR US-20050193742-A1 OR US-20080015545-A1 OR US-20050277974-A1 OR US-20050005626-A1 OR US-20040111086-A1 OR US-20220125672-A1 OR US-20220054350-A1 OR					

		US-20140228721-A1 OR US-20130102937-A1 OR US-20190151604-A1 OR US-20090306577-A1 OR US-20120259255-A1 OR US-20130006040-A1 OR US-20140094724-A1 OR US-20180147800-A1 OR US-20160022533-A1 OR US-20220168175-A1 OR US-20180325328-A1 OR US-20140296772-A1 OR US-20140222026-A1 OR US-20090240310-A1 OR US-20050113725-A1 OR US-20210077338-A1 OR US-20200384253-A1 OR US-20100312157-A1 OR US-20170072175-A1 OR US-20090043293-A1 OR US-20180264245-A1 OR US-20180126160-A1 OR US-20130012851-A1).did. AND PGPB.dbnm.) OR ((US-10714953-B1 OR US-6965375-B1 OR US-6245890-B1 OR US-7425947-B1 OR US-10945915-B2 OR US-10940081-B2 OR US-10702448-B2 OR US-10758452-B2 OR US-10617588-B2 OR US-10959911-B2 OR US-10470970-B2 OR US-10959908-B2 OR US-8372111-B2 OR US-7435232-B2 OR US-4669452-A OR US-3993052-A OR US-3494353-A OR US-3169521-A OR US-2078159-A OR US-1660821-A OR US-1657765-A OR US-1545027-A OR US-10314762-B1 OR US-7273159-B2 OR US-6682496-B1 OR US-10806660-B1 OR US-					

		10993874-B1 OR US- 10426691-B2 OR US- 9839572-B2 OR US- 6352518-B1 OR US- 6228042-B1 OR US- 5951501-A OR US- 5593381-A OR US- 5300095-A OR US- 5167226-A OR US- 5088474-A OR US- 5085207-A OR US- 4827914-A OR US- 4566442-A OR US- 4565189-A OR US- 4513737-A OR US- 4495940-A OR US- 4088128-A OR US- 4079733-A OR US- 3837335-A OR US- 3626934-A OR US- 1955623-A OR US- 10428850-B2 OR US- D912835-S OR US- 11090222-B2 OR US- 10357425-B2 OR US- 10857064-B2 OR US- 10847984-B2 OR US- 10842703-B2 OR US- 10682281-B2 OR US- 7695207-B1 OR US- 4858600-A OR US- 1772501-A OR US- 11122206-B2 OR US- 10511777-B2 OR US- 6443915-B1 OR US- 7896908-B2 OR US- 7014639-B2 OR US- 6010264-A OR US- 5698866-A OR US- 5363045-A OR US- 5358503-A OR US- 5176130-A OR US- 2183726-A OR US- 1228669-A OR US- 9126034-B1 OR US- 8936542-B1 OR US- 6461377-B1 OR US- 6123657-A OR US- 6001055-A OR US- 5632720-A OR US- 5382222-A OR US- 5662593-A OR US- 5131384-A OR US- 4326508-A OR US- 4841955-A OR US- 4549535-A OR US- 6432036-B1 OR US- 9456678-B1 OR US-				

		10722424-B2 OR US- 9504826-B2 OR US- 9278230-B2 OR US- 9084587-B2 OR US- 8620451-B2 OR US- 2490074-A OR US- 5103809-A OR US- 3710785-A OR US- 9782604-B2 OR US- 9592405-B2 OR US- 7479136-B2 OR US- 6702837-B2 OR US- 6019482-A OR US- 5551949-A OR US- 6875225-B1 OR US- 6974224-B2 OR US- 6524329-B1 OR US- 6221095-B1 OR US- 4561440-A OR US- 7384405-B2 OR US- 10272011-B1 OR US- 5067480-A OR US- 4716890-A OR US- 11076685-B2 OR US- 10966514-B2 OR US- 9386843-B2 OR US- 5725483-A OR US- 5647841-A OR US- 4203431-A OR US- 4397055-A OR US- 8028707-B2 OR US- 7793419-B2 OR US- 3699952-A OR US- 2548411-A OR US- 9801448-B1 OR US- 7063476-B1 OR US- 5073058-A OR US- 4991749-A OR US- 4930923-A OR US- 4883380-A OR US- 4723860-A OR US- 4171171-A OR US- D897110-S OR US- 10307330-B1 OR US- 9132031-B2 OR US- 8864401-B2 OR US- 7959369-B2 OR US- 7644589-B2 OR US- 6416534-B1 OR US- 6336907-B1 OR US- 6090085-A OR US- 6017337-A OR US- 5800490-A OR US- 5690608-A OR US- 4920956-A OR US- 4846176-A OR US- 4745909-A OR US- 4640284-A OR US-					

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		4162675-A OR US- 4505267-A OR US- 5065743-A OR US- 5140979-A OR US- 5159922-A OR US- 5311860-A OR US- 5415621-A OR US- 5447491-A OR US- 5656018-A OR US- 5803916-A OR US- 7282037-B2 OR US- 6758826-B2 OR US- 6231497-B1 OR US- 11110260-B1 OR US- 10966515-B2 OR US- 10737107-B2 OR US- 10688290-B1 OR US- 10661072-B2 OR US- 7083580-B2 OR US- 6748266-B2 OR US- D693932-S OR US- 6535761-B2 OR US- 10518097-B2 OR US- 10285722-B2 OR US- 7282036-B2 OR US- 7258675-B2 OR US- 10252051-B2 OR US- 6743215-B2 OR US- 8382690-B2 OR US- 10278888-B2 OR US- 8157753-B2 OR US- 6980854-B2 OR US- 7204832-B2).did. AND USPT.dbnm.) OR ((US- 3494353-A OR US- 3169521-A OR US- 2078159-A OR US- 1660821-A OR US- 1657765-A OR US- 1545027-A OR US- 3536064-A OR US- 2512536-A OR US- 1955623-A OR US- 1352894-A OR US- 1339179-A OR US- 1772501-A OR US- 2183726-A OR US- 1228669-A OR US- 3467080-A OR US- 2490074-A OR US- 2424699-A OR US- 2441682-A OR US- 2548411-A OR US- 2995768-A OR US- 3154926-A OR US- 2985166-A OR US- 2809630-A OR US- 2477883-A OR US-					

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PGR2025-00013

		2472385-A OR US-1380986-A OR US-1955863-A).did. AND USOC.dbnm.) OR ((WO-2022006086-A1 OR WO-2021222573-A1 OR WO-2021050861-A1 OR WO-2021050868-A1 OR WO-2020227569-A1 OR WO-2020167756-A1 OR WO-2020139715-A1 OR WO-2019013972-A1 OR WO-2019014031-A1 OR WO-2018170121-A1 OR WO-2016209759-A1 OR CN-215133032-U OR CN-112932935-A OR DE-102020123082-A1 OR CN-113855514-A OR KR-20220062350-A OR KR-20220058677-A OR KR-20220030711-A OR CN-114010485-A OR KR-102325386-B1 OR WO-2021210750-A1 OR WO-2021211238-A1 OR CN-113350154-A OR CN-113274276-A OR KR-20210095422-A OR KR-20210091842-A OR CN-113116702-A OR CN-113081751-A OR CN-213490366-U OR CN-112791308-A OR CN-112773696-A OR CN-112741964-A OR KR-20210047406-A OR KR-20210044358-A OR KR-20210044035-A OR CN-112618960-A OR KR-20210036430-A OR KR-20210000722-U OR CN-112370646-A OR KR-20210018636-A OR KR-20210016729-A OR CN-112315773-A OR KR-20210013392-A OR CN-112245261-A OR CN-216439596-U OR CN-215938255-U OR CN-215779811-U OR CN-214859044-U OR CN-112891186-A OR CN-213157619-U					

		OR CN-210844180-U OR CN-209933448-U OR KR-20210001066-A OR CN-111973428-A OR KR-102178263-B1 OR KR-20200126252-A OR CN-111821150-A OR WO-2020209497-A1 OR KR-102161933-B1 OR KR-20200100378-A OR WO-2020163738-A1 OR WO-2020159727-A1 OR KR-20200063823-A OR KR-102118572-B1 OR KR-20200051098-A OR KR-20200050488-A OR CN-111109818-A OR KR-20200040003-A OR EP-3626122-A1 OR WO-2020018713-A1 OR CN-110711134-A OR KR-102067323-B1 OR CN-110478222-A OR WO-2019207469-A1 OR WO-2019203423-A1 OR CN-110339042-A OR CN-110302051-A OR CN-110101563-A OR CN-109998891-A OR WO-2019118561-A1 OR WO-2019097291-A1 OR CN-109620684-A OR CN-109394489-A OR CN-109350862-A OR CN-109223500-A OR CN-108671405-A OR KR-20180113097-A OR KR-20180002806-U OR KR-101891952-B1 OR CN-108543126-A OR CN-108542741-A OR CN-108451704-A OR CN-108451705-A OR KR-20180094694-A OR CN-108392388-A OR WO-2018135671-A1 OR WO-2018126135-A1 OR CN-108175673-A OR WO-2018094540-A1 OR CA-3045164-A1 OR KR-101852410-B1).did. AND FTDB.dbnm.) OR ((US-20220133585-A1 OR CN-215133032-U						

		OR US-10993874-B1 OR JP-2020171460-A OR US-20190254922-A1 OR US-20170056145-A1 OR US-5176130-A OR CN-113855514-A OR US-20180325328-A1 OR WO-2013021380-A1 OR US-20070185553-A1 OR EP-1525872-A1 OR US-20140135798-A1 OR US-20180178032-A1 OR US-20210001148-A1 OR US-20210077338-A1 OR US-20210154093-A1).did. AND DWPI.dbnm.)					
L352	54	351 AND (meter cm centimeter inch inches foot feet "m") adj2 ("s" sec second)	(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	2022/06/09 01:02 PM
L353	235	351 AND (terminal contact electrical electric) near6 (male female prong pin receptacle receiv$4 aperture)	(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	2022/06/09 11:19 PM
L354	42	(Artificial Intelligence) More like doc: US-20200154874-A1 Text: (US-10966515-B2 OR CN-208525375-U 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	2022/06/10 01:05 PM

		US-20180168913-A1 OR CN-107913174-A OR US-9434064-B2 OR US-10213064-B2 OR CN-112956933-A OR CN-105188497-B OR US-20200237613-A1 OR CN-112956934-A OR DE-202019101592-U1 OR CN-108366664-A OR JP-6208758-B2 OR CN-211675908-U OR CN-110694170-A OR US-10028884-B2 OR CN-109788844-A OR US-10349788-B1 OR JP-2015531245-A OR KR-101315839-B1).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)				
L355	35	(Artificial Intelligence) More like doc: US-20140194900-A1 Text: (CA-2897177-A1 OR WO-2014106812-A2 OR EP-2941163-A2 OR US-10716437-B2 OR US-20220133096-A1 OR US-9907439-B2 OR US-10973374-B1 OR EP-3804591-A1 OR US-10856705-B2 OR US-20190290076-A1 OR AU-2017100130-B4 OR AU-2018236792-B2 OR US-10349788-B1 OR US-20190200814-A1 OR US-20170112713-A1 OR US-20180161237-A1 OR US-10028884-B2 OR US-9889065-B2 OR US-20200261310-A1 OR CN-209404585-U).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	2022/06/10 01:08 PM
L356	6	("10966515" "20190200814" "20180161237" "20140194900" "20200154874" "20180092449").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/10 01:12 PM
L357	3	356 AND (reciprocat$4 flex$4 membrane)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/06/10 01:13 PM
L358	1005	((US-20210244611-A1 OR US-20210244610-A1 OR US-	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	ON	ON	2022/06/10 01:14 PM

		20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20190350793-A1 OR US-20190017528-A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-A1 OR US-20180263845-A1 OR US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1 OR US-20020192231-A1 OR US-20200343746-A1 OR US-20200289365-A1 OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-A1 OR US-20210307998-A1 OR US-20200085675-A1 OR US-20210283005-A1 OR US-20190175434-A1 OR US-20170304145-A1 OR US-20170042754-A1 OR US-20150005682-A1 OR US-20130261516-A1 OR US-20070270727-A1	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 US-20060282025-A1 OR US-20030009116-A1 OR US-20210244609-A1 OR US-20210228437-A1 OR US-20210196563-A1 OR US-20210196562-A1 OR US-20210161759-A1 OR US-20210128402-A1 OR US-20210113427-A1 OR US-20210113421-A1 OR US-20210077340-A1 OR US-20210022951-A1 OR US-20210000683-A1 OR US-20200393026-A1 OR US-20200390644-A1 OR US-20200357046-A1 OR US-20190254921-A1 OR US-20200315904-A1 OR US-20200289364-A1 OR US-20200276079-A1 OR US-20200268594-A1 OR US-20200261306-A1 OR US-20200230012-A1 OR US-20200155410-A1 OR US-20200113322-A1 OR US-20200000678-A1 OR US-20190365598-A1 OR US-20190262222-A1 OR US-20190247271-A1 OR US-20190159961-A1 OR US-20160045081-A1 OR US-20160184175-A1 OR US-20180031090-A1 OR US-20180031089-A1 OR US-20170304144-A1 OR US-20140031866-A1 OR US-20170049278-A1 OR US-20160184177-A1 OR US-20160113840-A1 OR US-20150265825-A1 OR US-20150174387-A1 OR US-20140188169-A1 OR US-20090236359-A1 OR US-					

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		20190350752-A1 OR US-20190343686-A1 OR US-20190254866-A1 OR US-20190240110-A1 OR US-20190175396-A1 OR US-20080269851-A1 OR US-20190125577-A1 OR US-20110313498-A1 OR US-20190110931-A1 OR US-20140303697-A1 OR US-20190009110-A1 OR US-20180289531-A1 OR US-20140303696-A1 OR US-20180153736-A1 OR US-20150112195-A1 OR US-20180064574-A1 OR US-20170333667-A1 OR US-20170196729-A1 OR US-20170035602-A1 OR US-20160270951-A1 OR US-20160242956-A1 OR US-20160178251-A1 OR US-20160074210-A1 OR US-20140260331-A1 OR US-20150182375-A1 OR US-20150127077-A1 OR US-20150121900-A1 OR US-20140358204-A1 OR US-20130238043-A1 OR US-20120198616-A1 OR US-20100198322-A1 OR US-20100185267-A1 OR US-20090306748-A1 OR US-20090093864-A1 OR US-20080300529-A1 OR US-20080046047-A1 OR US-20020091425-A1 OR US-20020156509-A1 OR US-20220047412-A1 OR US-20210290430-A1 OR US-20210212883-A1 OR US-20210123641-A1 OR US-20200375840-A1 OR US-20200352459-A1					

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		10714953-B1 OR US- 6965375-B1 OR US- 6245890-B1 OR US- 7425947-B1 OR US- 10945915-B2 OR US- 10940081-B2 OR US- 10702448-B2 OR US- 10758452-B2 OR US- 10617588-B2 OR US- 10959911-B2 OR US- 10470970-B2 OR US- 10959908-B2 OR US- 8372111-B2 OR US- 7435232-B2 OR US- 4669452-A OR US- 3993052-A OR US- 3494353-A OR US- 3169521-A OR US- 2078159-A OR US- 1660821-A OR US- 1657765-A OR US- 1545027-A OR US- 10314762-B1 OR US- 7273159-B2 OR US- 6682496-B1 OR US- 10806660-B1 OR US- 10993874-B1 OR US- 10426691-B2 OR US- 9839572-B2 OR US- 6352518-B1 OR US- 6228042-B1 OR US- 5951501-A OR US- 5593381-A OR US- 5300095-A OR US- 5167226-A OR US- 5088474-A OR US- 5085207-A OR US- 4827914-A OR US- 4566442-A OR US- 4565189-A OR US- 4513737-A OR US- 4495940-A OR US- 4088128-A OR US- 4079733-A OR US- 3837335-A OR US- 3626934-A OR US- 1955623-A OR US- 10428850-B2 OR US- D912835-S OR US- 11090222-B2 OR US- 10357425-B2 OR US- 10857064-B2 OR US- 10847984-B2 OR US- 10842703-B2 OR US- 10682281-B2 OR US- 7695207-B1 OR US- 4858600-A OR US- 1772501-A OR US-				

		11122206-B2 OR US- 10511777-B2 OR US- 6443915-B1 OR US- 7896908-B2 OR US- 7014639-B2 OR US- 6010264-A OR US- 5698866-A OR US- 5363045-A OR US- 5358503-A OR US- 5176130-A OR US- 2183726-A OR US- 1228669-A OR US- 9126034-B1 OR US- 8936542-B1 OR US- 6461377-B1 OR US- 6123657-A OR US- 6001055-A OR US- 5632720-A OR US- 5382222-A OR US- 5662593-A OR US- 5131384-A OR US- 4326508-A OR US- 4841955-A OR US- 4549535-A OR US- 6432036-B1 OR US- 9456678-B1 OR US- 10722424-B2 OR US- 9504826-B2 OR US- 9278230-B2 OR US- 9084587-B2 OR US- 8620451-B2 OR US- 2490074-A OR US- 5103809-A OR US- 3710785-A OR US- 9782604-B2 OR US- 9592405-B2 OR US- 7479136-B2 OR US- 6702837-B2 OR US- 6019482-A OR US- 5551949-A OR US- 6875225-B1 OR US- 6974224-B2 OR US- 6524329-B1 OR US- 6221095-B1 OR US- 4561440-A OR US- 7384405-B2 OR US- 10272011-B1 OR US- 5067480-A OR US- 4716890-A OR US- 11076685-B2 OR US- 10966514-B2 OR US- 9386843-B2 OR US- 5725483-A OR US- 5647841-A OR US- 4203431-A OR US- 4397055-A OR US- 8028707-B2 OR US- 7793419-B2 OR US-					

		3699952-A OR US- 2548411-A OR US- 9801448-B1 OR US- 7063476-B1 OR US- 5073058-A OR US- 4991749-A OR US- 4930923-A OR US- 4883380-A OR US- 4723860-A OR US- 4171171-A OR US- D897110-S OR US- 10307330-B1 OR US- 9132031-B2 OR US- 8864401-B2 OR US- 7959369-B2 OR US- 7644589-B2 OR US- 6416534-B1 OR US- 6336907-B1 OR US- 6090085-A OR US- 6017337-A OR US- 5800490-A OR US- 5690608-A OR US- 4920956-A OR US- 4846176-A OR US- 4745909-A OR US- 4640284-A OR US- 4502469-A OR US- 3382866-A OR US- 3154926-A OR US- 8951216-B2 OR US- 7927259-B1 OR US- 6723060-B2 OR US- 6663657-B1 OR US- 6599260-B2 OR US- 5569168-A OR US- 4730605-A OR US- 4150668-A OR US- 3452226-A OR US- 7211057-B2 OR US- 6896693-B2 OR US- 10625093-B2 OR US- 10695508-B2 OR US- 10383486-B2 OR US- 10376659-B2 OR US- 10124165-B2 OR US- D803572-S OR US- 9808646-B2 OR US- 9585687-B2 OR US- D765982-S OR US- D764173-S OR US- 9278045-B2 OR US- 9272141-B2 OR US- D736399-S OR US- 6766199-B2 OR US- 8945104-B2 OR US- 8506506-B2 OR US- 10881577-B2 OR US- 8397518-B1 OR US-				

		6438964-B1 OR US- 11241357-B2 OR US- 10821297-B2 OR US- 9962284-B2 OR US- 8523791-B2 OR US- 5746702-A OR US- 5174285-A OR US- 4741338-A OR US- 4470263-A OR US- 3099137-A OR US- 7559907-B2 OR US- 7204041-B1 OR US- 5895418-A OR US- 5097828-A OR US- 4614191-A OR US- 4519389-A OR US- D949390-S OR US- 11166863-B2 OR US- 11160721-B2 OR US- 10980704-B2 OR US- 10918565-B2 OR US- 10912707-B2 OR US- 9889066-B2 OR US- 11253423-B1 OR US- 10201470-B2 OR US- 10492984-B2 OR US- 4162675-A OR US- 4505267-A OR US- 5065743-A OR US- 5140979-A OR US- 5159922-A OR US- 5311860-A OR US- 5415621-A OR US- 5447491-A OR US- 5656018-A OR US- 5803916-A OR US- 7282037-B2 OR US- 6758826-B2 OR US- 6231497-B1 OR US- 11110260-B1 OR US- 10966515-B2 OR US- 10737107-B2 OR US- 10688290-B1 OR US- 10661072-B2 OR US- 7083580-B2 OR US- 6748266-B2 OR US- D693932-S OR US- 6535761-B2 OR US- 10518097-B2 OR US- 10285722-B2 OR US- 7282036-B2 OR US- 7258675-B2 OR US- 10252051-B2 OR US- 6743215-B2 OR US- 8382690-B2 OR US- 10278888-B2 OR US- 8157753-B2 OR US- 6980854-B2 OR US-					

		7204832-B2).did. AND USPT.dbnm.) OR ((US-3494353-A OR US-3169521-A OR US-2078159-A OR US-1660821-A OR US-1657765-A OR US-1545027-A OR US-3536064-A OR US-2512536-A OR US-1955623-A OR US-1352894-A OR US-1339179-A OR US-1772501-A OR US-2183726-A OR US-1228669-A OR US-3467080-A OR US-2490074-A OR US-2424699-A OR US-2441682-A OR US-2548411-A OR US-2995768-A OR US-3154926-A OR US-2985166-A OR US-2809630-A OR US-2477883-A OR US-2472385-A OR US-1380986-A OR US-1955863-A).did. AND USOC.dbnm.) OR ((WO-2022006086-A1 OR WO-2021222573-A1 OR WO-2021050861-A1 OR WO-2021050868-A1 OR WO-2020227569-A1 OR WO-2020167756-A1 OR WO-2020139715-A1 OR WO-2019013972-A1 OR WO-2019014031-A1 OR WO-2018170121-A1 OR WO-2016209759-A1 OR CN-215133032-U OR CN-112932935-A OR DE-102020123082-A1 OR CN-113855514-A OR KR-20220062350-A OR KR-20220058677-A OR KR-20220030711-A OR CN-114010485-A OR KR-102325386-B1 OR WO-2021210750-A1 OR WO-2021211238-A1 OR CN-113350154-A OR CN-113274276-A					

		OR KR-20210095422-A OR KR-20210091842-A OR CN-113116702-A OR CN-113081751-A OR CN-213490366-U OR CN-112791308-A OR CN-112773696-A OR CN-112741964-A OR KR-20210047406-A OR KR-20210044358-A OR KR-20210044035-A OR CN-112618960-A OR KR-20210036430-A OR KR-20210000722-U OR CN-112370646-A OR KR-20210018636-A OR KR-20210016729-A OR CN-112315773-A OR KR-20210013392-A OR CN-112245261-A OR CN-216439596-U OR CN-215938255-U OR CN-215779811-U OR CN-214859044-U OR CN-112891186-A OR CN-213157619-U OR CN-210844180-U OR CN-209933448-U OR KR-20210001066-A OR CN-111973428-A OR KR-102178263-B1 OR KR-20200126252-A OR CN-111821150-A OR WO-2020209497-A1 OR KR-102161933-B1 OR KR-20200100378-A OR WO-2020163738-A1 OR WO-2020159727-A1 OR KR-20200063823-A OR KR-102118572-B1 OR KR-20200051098-A OR KR-20200050488-A OR CN-111109818-A OR KR-20200040003-A OR EP-3626122-A1 OR WO-2020018713-A1 OR CN-110711134-A OR KR-102067323-B1 OR CN-110478222-A OR WO-2019207469-A1 OR WO-2019203423-A1 OR CN-110339042-A OR CN-110302051-A OR CN-110101563-A OR CN-109998891-A OR					

		WO-2019118561-A1 OR WO-2019097291-A1 OR CN-109620684-A OR CN-109394489-A OR CN-109350862-A OR CN-109223500-A OR CN-108671405-A OR KR-20180113097-A OR KR-20180002806-U OR KR-101891952-B1 OR CN-108543126-A OR CN-108542741-A OR CN-108451704-A OR CN-108451705-A OR KR-20180094694-A OR CN-108392388-A OR WO-2018135671-A1 OR WO-2018126135-A1 OR CN-108175673-A OR WO-2018094540-A1 OR CA-3045164-A1 OR KR-101852410-B1 OR CN-209404585-U OR WO-2014106812-A2).did. AND FTDB.dbnm.) OR ((US-20220133585-A1 OR CN-215133032-U OR US-10993874-B1 OR JP-2020171460-A OR US-20190254922-A1 OR US-20170056145-A1 OR US-5176130-A OR CN-113855514-A OR US-20180325328-A1 OR WO-2013021380-A1 OR US-20070185553-A1 OR EP-1525872-A1 OR US-20140135798-A1 OR US-20180178032-A1 OR US-20210001148-A1 OR US-20210077338-A1 OR US-20210154093-A1 OR CN-110694170-A OR CN-107913174-A OR US-20140194900-A1 OR US-20170112713-A1 OR US-20190200814-A1 OR US-20190290076-A1 OR US-20180161237-A1 OR CN-209404585-U OR US-10973374-B1 OR US-20200261310-A1					

		OR US-20180289584-A1 OR WO-2014062647-A1 OR US-20200154874-A1 OR US-20180092449-A1 OR WO-2017027793-A1).did. AND DWPI.dbnm.)					
L359	41	358 AND (tapping reciproca$4 oscillat$4) near8 (membrane flex$4 deflect$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/06/10 01:24 PM
L360	45	358 AND (tapping reciproca$4 oscillat$4) near8 (membrane flex$4 deflect$4 diaphragm)	(US-PGPUB; USPAT)	OR	ON	ON	2022/06/10 02:46 PM
L361	206	(324 OR 333) AND (tapping reciproca$4 oscillat$4) near8 (membrane flex$4 deflect$4 diaphragm)	(US-PGPUB; USPAT)	OR	ON	ON	2022/06/10 02:55 PM
L362	169	361 NOT 360	(US-PGPUB; USPAT)	OR	ON	ON	2022/06/10 02:55 PM
L363	1028	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20190350793-A1 OR US-20190017528-A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-A1 OR US-20180263845-A1 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	2022/06/10 09:26 PM

		US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1 OR US-20020192231-A1 OR US-20200343746-A1 OR US-20200289365-A1 OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-A1 OR US-20210307998-A1 OR US-20200085675-A1 OR US-20210283005-A1 OR US-20190175434-A1 OR US-20170304145-A1 OR US-20170042754-A1 OR US-20150005682-A1 OR US-20130261516-A1 OR US-20070270727-A1 OR US-20060282025-A1 OR US-20030009116-A1 OR US-20210244609-A1 OR US-20210228437-A1 OR US-20210196563-A1 OR US-20210196562-A1 OR US-20210161759-A1 OR US-20210128402-A1 OR US-20210113427-A1 OR US-20210113421-A1 OR US-20210077340-A1 OR US-20210022951-A1 OR US-20210000683-A1 OR US-20200393026-A1 OR US-20200390644-A1 OR US-20200357046-A1 OR US-20190254921-A1 OR US-20200315904-A1 OR US-20200289364-A1 OR US-20200276079-A1 OR US-20200268594-A1 OR US-20200261306-					

		A1 OR US-20200230012-A1 OR US-20200155410-A1 OR US-20200113322-A1 OR US-20200000678-A1 OR US-20190365598-A1 OR US-20190262222-A1 OR US-20190247271-A1 OR US-20190159961-A1 OR US-20160045081-A1 OR US-20160184175-A1 OR US-20180031090-A1 OR US-20180031089-A1 OR US-20170304144-A1 OR US-20140031866-A1 OR US-20170049278-A1 OR US-20160184177-A1 OR US-20160113840-A1 OR US-20150265825-A1 OR US-20150174387-A1 OR US-20140188169-A1 OR US-20090236359-A1 OR US-20100137907-A1 OR US-20030158505-A1 OR US-20050222525-A1 OR US-20050187498-A1 OR US-20020082532-A1 OR US-20020082536-A1 OR US-20210259915-A1 OR US-20210186800-A1 OR US-20210177692-A1 OR US-20200330321-A1 OR US-20140194900-A1 OR US-20210100718-A1 OR US-20200390645-A1 OR US-20190254922-A1 OR US-20200222263-A1 OR US-20160213558-A1 OR US-20180050440-A1 OR US-20050131461-A1 OR US-20050075591-A1 OR US-20200009010-A1 OR US-20190247270-A1 OR US-20160151238-A1 OR					

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PGR2025-00013

		US-20150297393-A1 OR US-20150283026-A1 OR US-20140276255-A1 OR US-20140194790-A1 OR US-20120253245-A1 OR US-20180295980-A1 OR US-20170189670-A1 OR US-20160206087-A1 OR US-20160184173-A1 OR US-20160184162-A1 OR US-20150333609-A1 OR US-20150182290-A1 OR US-20110040235-A1 OR US-20090222072-A1 OR US-20090163984-A1 OR US-20070206986-A1 OR US-20040147984-A1 OR US-20040024438-A1 OR US-20200086137-A1 OR US-20150305969-A1 OR US-20140378555-A1 OR US-20130060176-A1 OR US-20110184499-A1 OR US-20110106067-A1 OR US-20110098781-A1 OR US-20100292746-A1 OR US-20100210993-A1 OR US-20100121419-A1 OR US-20100049177-A1 OR US-20090177125-A1 OR US-20060058714-A1 OR US-20080119913-A1 OR US-20060253051-A1 OR US-20050075149-A1 OR US-20120209357-A1 OR US-20120121309-A1 OR US-20110092863-A1 OR US-20110091265-A1 OR US-20090287195-A1 OR US-20090234423-A1 OR US-20090088824-A1 OR US-20090048557-A1 OR US-20080172045-A1 OR US-20080154162-					

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		US-20200179220-A1 OR US-20200129372-A1 OR US-20190262607-A1 OR US-20200154874-A1 OR US-20160228184-A1 OR US-20100274329-A1 OR US-20100137752-A1 OR US-20030163068-A1 OR US-20190142691-A1 OR US-20180360203-A1 OR US-20180256439-A1 OR US-20180178032-A1 OR US-20180140860-A1 OR US-20150283025-A1 OR US-20140088668-A1 OR US-20130131559-A1 OR US-20120265274-A1 OR US-20110060254-A1 OR US-20080275532-A1 OR US-20080018167-A1 OR US-20060235341-A1 OR US-20090270915-A1 OR US-20060293711-A1 OR US-20200237085-A1 OR US-20160192814-A1 OR US-20210045521-A1 OR US-20200411161-A1 OR US-20200405047-A1 OR US-20200352317-A1 OR US-20200323337-A1 OR US-20200237604-A1 OR US-20200187635-A1 OR US-20200170399-A1 OR US-20200093945-A1 OR US-20200093252-A1 OR US-20200085684-A1 OR US-20200038673-A1 OR US-20200038530-A1 OR US-20200037747-A1 OR US-20200037746-A1 OR US-20200000294-A1 OR US-20200000293-A1 OR US-20190298036-A1 OR US-20190126061-					

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		US-20110009783-A1 OR US-20060211961-A1 OR US-20040082983-A1 OR US-20160074641-A1 OR US-20160015150-A1 OR US-20150305487-A1 OR US-20120136289-A1 OR US-20120065556-A1 OR US-20100274162-A1 OR US-20100145242-A1 OR US-20210138260-A1 OR US-20200352306-A1 OR US-20190388707-A1 OR US-20200179713-A1 OR US-20200101312-A1 OR US-20200046999-A1 OR US-20100211136-A1 OR US-20140343574-A1 OR US-20080140164-A1 OR US-20080103563-A1 OR US-20050234383-A1 OR US-20070106347-A1 OR US-20070032843-A1 OR US-20060030908-A1 OR US-20050065579-A1 OR US-20050055070-A1 OR US-20040210277-A1 OR US-20210022565-A1 OR US-20200113390-A1 OR US-20170181925-A1 OR US-20200085015-A1 OR US-20190117503-A1 OR US-20190117497-A1 OR US-20120226268-A1 OR US-20130190845-A1 OR US-20190046812-A1 OR US-20110034837-A1 OR US-20170164876-A1 OR US-20150290076-A1 OR US-20150205279-A1 OR US-20070217199-A1 OR US-20070213698-A1 OR US-20210322257-A1 OR US-20170007498-					

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		3494353-A OR US-3169521-A OR US-2078159-A OR US-1660821-A OR US-1657765-A OR US-1545027-A OR US-3536064-A OR US-2512536-A OR US-1955623-A OR US-1352894-A OR US-1339179-A OR US-1772501-A OR US-2183726-A OR US-1228669-A OR US-3467080-A OR US-2490074-A OR US-2424699-A OR US-2441682-A OR US-2548411-A OR US-2995768-A OR US-3154926-A OR US-2985166-A OR US-2809630-A OR US-2477883-A OR US-2472385-A OR US-1380986-A OR US-1955863-A).did. AND USOC.dbnm.) OR ((WO-2022006086-A1 OR WO-2021222573-A1 OR WO-2021050861-A1 OR WO-2021050868-A1 OR WO-2020227569-A1 OR WO-2020167756-A1 OR WO-2020139715-A1 OR WO-2019013972-A1 OR WO-2019014031-A1 OR WO-2018170121-A1 OR WO-2016209759-A1 OR CN-215133032-U OR CN-112932935-A OR DE-102020123082-A1 OR CN-113855514-A OR KR-20220062350-A OR KR-20220058677-A OR KR-20220030711-A OR CN-114010485-A OR KR-102325386-B1 OR WO-2021210750-A1 OR WO-2021211238-A1 OR CN-113350154-A OR CN-113274276-A OR KR-20210095422-A OR KR-20210091842-A					

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L365	1028	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR US-20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20190350793-A1 OR US-20190017528-A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-A1 OR US-20180263845-A1 OR US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1 OR US-20020192231-A1 OR US-20200343746-A1 OR US-20200289365-A1 OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-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); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/09/21 01:45 PM

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		5159922-A OR US- 5311860-A OR US- 5415621-A OR US- 5447491-A OR US- 5656018-A OR US- 5803916-A OR US- 7282037-B2 OR US- 6758826-B2 OR US- 6231497-B1 OR US- 11110260-B1 OR US- 10966515-B2 OR US- 10737107-B2 OR US- 10688290-B1 OR US- 10661072-B2 OR US- 7083580-B2 OR US- 6748266-B2 OR US- D693932-S OR US- 6535761-B2 OR US- 10518097-B2 OR US- 10285722-B2 OR US- 7282036-B2 OR US- 7258675-B2 OR US- 10252051-B2 OR US- 5489280-A OR US- 4821740-A OR US- 4427001-A OR US- 9787167-B2 OR US- 9474358-B2 OR US- 8641702-B2 OR US- 3968789-A OR US- 9138257-B2 OR US- 9579250-B2 OR US- 9032576-B2 OR US- 10463531-B2 OR US- 6743215-B2 OR US- 8382690-B2 OR US- 10278888-B2 OR US- 8157753-B2 OR US- 6980854-B2 OR US- 7204832-B2).did. AND USPT.dbnm.) OR ((US- 3494353-A OR US- 3169521-A OR US- 2078159-A OR US- 1660821-A OR US- 1657765-A OR US- 1545027-A OR US- 3536064-A OR US- 2512536-A OR US- 1955623-A OR US- 1352894-A OR US- 1339179-A OR US- 1772501-A OR US- 2183726-A OR US- 1228669-A OR US- 3467080-A OR US- 2490074-A OR US- 2424699-A OR US-					

		2441682-A OR US-2548411-A OR US-2995768-A OR US-3154926-A OR US-2985166-A OR US-2809630-A OR US-2477883-A OR US-2472385-A OR US-1380986-A OR US-1955863-A).did. AND USOC.dbnm.) OR ((WO-2022006086-A1 OR WO-2021222573-A1 OR WO-2021050861-A1 OR WO-2021050868-A1 OR WO-2020227569-A1 OR WO-2020167756-A1 OR WO-2020139715-A1 OR WO-2019013972-A1 OR WO-2019014031-A1 OR WO-2018170121-A1 OR WO-2016209759-A1 OR CN-215133032-U OR CN-112932935-A OR DE-102020123082-A1 OR CN-113855514-A OR KR-20220062350-A OR KR-20220058677-A OR KR-20220030711-A OR CN-114010485-A OR KR-102325386-B1 OR WO-2021210750-A1 OR WO-2021211238-A1 OR CN-113350154-A OR CN-113274276-A OR KR-20210095422-A OR KR-20210091842-A OR CN-113116702-A OR CN-113081751-A OR CN-213490366-U OR CN-112791308-A OR CN-112773696-A OR CN-112741964-A OR KR-20210047406-A OR KR-20210044358-A OR KR-20210044035-A OR CN-112618960-A OR KR-20210036430-A OR KR-20210000722-U OR CN-112370646-A OR KR-20210018636-A OR KR-20210016729-A OR CN-112315773-A OR KR-20210013392-A					

		OR CN-112245261-A OR CN-216439596-U OR CN-215938255-U OR CN-215779811-U OR CN-214859044-U OR CN-112891186-A OR CN-213157619-U OR CN-210844180-U OR CN-209933448-U OR KR-20210001066-A OR CN-111973428-A OR KR-102178263-B1 OR KR-20200126252-A OR CN-111821150-A OR WO-2020209497-A1 OR KR-102161933-B1 OR KR-20200100378-A OR WO-2020163738-A1 OR WO-2020159727-A1 OR KR-20200063823-A OR KR-102118572-B1 OR KR-20200051098-A OR KR-20200050488-A OR CN-111109818-A OR KR-20200040003-A OR EP-3626122-A1 OR WO-2020018713-A1 OR CN-110711134-A OR KR-102067323-B1 OR CN-110478222-A OR WO-2019207469-A1 OR WO-2019203423-A1 OR CN-110339042-A OR CN-110302051-A OR CN-110101563-A OR CN-109998891-A OR WO-2019118561-A1 OR WO-2019097291-A1 OR CN-109620684-A OR CN-109394489-A OR CN-109350862-A OR CN-109223500-A OR CN-108671405-A OR KR-20180113097-A OR KR-20180002806-U OR KR-101891952-B1 OR CN-108543126-A OR CN-108542741-A OR CN-108451704-A OR CN-108451705-A OR KR-20180094694-A OR CN-108392388-A OR WO-2018135671-A1 OR WO-2018126135-A1 OR					

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L366	1028	((US-20210244611-A1 OR US-20210244610-A1 OR US-20200352821-A1 OR US-20200352820-A1 OR US-20210169733-A1 OR US-20200069510-A1 OR US-20210128399-A1 OR US-20210104318-A1 OR 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,	OR	ON	ON	2022/09/21 01:45 PM

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		20210059898-A1 OR US-20210022955-A1 OR US-20200405574-A1 OR US-20200214930-A1 OR US-20200261307-A1 OR US-20200265590-A1 OR US-20200261310-A1 OR US-20190350793-A1 OR US-20190017528-A1 OR US-20200005469-A1 OR US-20160135516-A1 OR US-20170076361-A1 OR US-20180200141-A1 OR US-20190015294-A1 OR US-20170364154-A1 OR US-20180263845-A1 OR US-20180235031-A1 OR US-20180149437-A1 OR US-20170297280-A1 OR US-20160367425-A1 OR US-20120117481-A1 OR US-20030165480-A1 OR US-20040037895-A1 OR US-20020192231-A1 OR US-20200343746-A1 OR US-20200289365-A1 OR US-20190136889-A1 OR US-20190209424-A1 OR US-20170027798-A1 OR US-20210307998-A1 OR US-20200085675-A1 OR US-20210283005-A1 OR US-20190175434-A1 OR US-20170304145-A1 OR US-20170042754-A1 OR US-20150005682-A1 OR US-20130261516-A1 OR US-20070270727-A1 OR US-20060282025-A1 OR US-20030009116-A1 OR US-20210244609-A1 OR US-20210228437-A1 OR US-20210196563-A1 OR US-20210196562-A1	SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

		OR US-20210161759-A1 OR US-20210128402-A1 OR US-20210113427-A1 OR US-20210113421-A1 OR US-20210077340-A1 OR US-20210022951-A1 OR US-20210000683-A1 OR US-20200393026-A1 OR US-20200390644-A1 OR US-20200357046-A1 OR US-20190254921-A1 OR US-20200315904-A1 OR US-20200289364-A1 OR US-20200276079-A1 OR US-20200268594-A1 OR US-20200261306-A1 OR US-20200230012-A1 OR US-20200155410-A1 OR US-20200113322-A1 OR US-20200000678-A1 OR US-20190365598-A1 OR US-20190262222-A1 OR US-20190247271-A1 OR US-20190159961-A1 OR US-20160045081-A1 OR US-20160184175-A1 OR US-20180031090-A1 OR US-20180031089-A1 OR US-20170304144-A1 OR US-20140031866-A1 OR US-20170049278-A1 OR US-20160184177-A1 OR US-20160113840-A1 OR US-20150265825-A1 OR US-20150174387-A1 OR US-20140188169-A1 OR US-20090236359-A1 OR US-20100137907-A1 OR US-20030158505-A1 OR US-20050222525-A1 OR US-20050187498-A1 OR US-20020082532-A1 OR US-20020082536-A1 OR US-					

		20210259915-A1 OR US-20210186800-A1 OR US-20210177692-A1 OR US-20200330321-A1 OR US-20140194900-A1 OR US-20210100718-A1 OR US-20200390645-A1 OR US-20190254922-A1 OR US-20200222263-A1 OR US-20160213558-A1 OR US-20180050440-A1 OR US-20050131461-A1 OR US-20050075591-A1 OR US-20200009010-A1 OR US-20190247270-A1 OR US-20160151238-A1 OR US-20150297393-A1 OR US-20150283026-A1 OR US-20140276255-A1 OR US-20140194790-A1 OR US-20120253245-A1 OR US-20180295980-A1 OR US-20170189670-A1 OR US-20160206087-A1 OR US-20160184173-A1 OR US-20160184162-A1 OR US-20150333609-A1 OR US-20150182290-A1 OR US-20110040235-A1 OR US-20090222072-A1 OR US-20090163984-A1 OR US-20070206986-A1 OR US-20040147984-A1 OR US-20040024438-A1 OR US-20200086137-A1 OR US-20150305969-A1 OR US-20140378555-A1 OR US-20130060176-A1 OR US-20110184499-A1 OR US-20110106067-A1 OR US-20110098781-A1 OR US-20100292746-A1 OR US-20100210993-A1 OR US-20100121419-A1					

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		OR US-20200352317-A1 OR US-20200323337-A1 OR US-20200237604-A1 OR US-20200187635-A1 OR US-20200170399-A1 OR US-20200093945-A1 OR US-20200093252-A1 OR US-20200085684-A1 OR US-20200038673-A1 OR US-20200038530-A1 OR US-20200037747-A1 OR US-20200037746-A1 OR US-20200000294-A1 OR US-20200000293-A1 OR US-20190298036-A1 OR US-20190126061-A1 OR US-20190029411-A1 OR US-20190014899-A1 OR US-20190008332-A1 OR US-20180361437-A1 OR US-20180288160-A1 OR US-20180279762-A1 OR US-20180193219-A1 OR US-20180015299-A1 OR US-20170367761-A1 OR US-20170367543-A1 OR US-20170238686-A1 OR US-20170188695-A1 OR US-20170172837-A1 OR US-20170150851-A1 OR US-20170150810-A1 OR US-20170135894-A1 OR US-20170119144-A1 OR US-20170071321-A1 OR US-20170035649-A1 OR US-20160339218-A1 OR US-20160331106-A1 OR US-20160183743-A1 OR US-20200253811-A1 OR US-20180169682-A1 OR US-20180168318-A1 OR US-20170049212-A1 OR US-20150327653-A1 OR US-					

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		10357425-B2 OR US- 10857064-B2 OR US- 10847984-B2 OR US- 10842703-B2 OR US- 10682281-B2 OR US- 7695207-B1 OR US- 4858600-A OR US- 1772501-A OR US- 11122206-B2 OR US- 10511777-B2 OR US- 6443915-B1 OR US- 7896908-B2 OR US- 7014639-B2 OR US- 6010264-A OR US- 5698866-A OR US- 5363045-A OR US- 5358503-A OR US- 5176130-A OR US- 2183726-A OR US- 1228669-A OR US- 9126034-B1 OR US- 8936542-B1 OR US- 6461377-B1 OR US- 6123657-A OR US- 6001055-A OR US- 5632720-A OR US- 5382222-A OR US- 5662593-A OR US- 5131384-A OR US- 4326508-A OR US- 4841955-A OR US- 4549535-A OR US- 6432036-B1 OR US- 9456678-B1 OR US- 10722424-B2 OR US- 9504826-B2 OR US- 9278230-B2 OR US- 9084587-B2 OR US- 8620451-B2 OR US- 2490074-A OR US- 5103809-A OR US- 3710785-A OR US- 9782604-B2 OR US- 9592405-B2 OR US- 7479136-B2 OR US- 6702837-B2 OR US- 6019482-A OR US- 5551949-A OR US- 6875225-B1 OR US- 6974224-B2 OR US- 6524329-B1 OR US- 6221095-B1 OR US- 4561440-A OR US- 7384405-B2 OR US- 10272011-B1 OR US- 5067480-A OR US- 4716890-A OR US- 11076685-B2 OR US-				

		10966514-B2 OR US- 9386843-B2 OR US- 5725483-A OR US- 5647841-A OR US- 4203431-A OR US- 4397055-A OR US- 8028707-B2 OR US- 7793419-B2 OR US- 3699952-A OR US- 2548411-A OR US- 9801448-B1 OR US- 7063476-B1 OR US- 5073058-A OR US- 4991749-A OR US- 4930923-A OR US- 4883380-A OR US- 4723860-A OR US- 4171171-A OR US- D897110-S OR US- 10307330-B1 OR US- 9132031-B2 OR US- 8864401-B2 OR US- 7959369-B2 OR US- 7644589-B2 OR US- 6416534-B1 OR US- 6336907-B1 OR US- 6090085-A OR US- 6017337-A OR US- 5800490-A OR US- 5690608-A OR US- 4920956-A OR US- 4846176-A OR US- 4745909-A OR US- 4640284-A OR US- 4502469-A OR US- 3382866-A OR US- 3154926-A OR US- 8951216-B2 OR US- 7927259-B1 OR US- 6723060-B2 OR US- 6663657-B1 OR US- 6599260-B2 OR US- 5569168-A OR US- 4730605-A OR US- 4150668-A OR US- 3452226-A OR US- 7211057-B2 OR US- 6896693-B2 OR US- 10625093-B2 OR US- 10695508-B2 OR US- 10383486-B2 OR US- 10376659-B2 OR US- 10124165-B2 OR US- D803572-S OR US- 9808646-B2 OR US- 9585687-B2 OR US- D765982-S OR US- D764173-S OR US-					

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		7282036-B2 OR US-7258675-B2 OR US-10252051-B2 OR US-5489280-A OR US-4821740-A OR US-4427001-A OR US-9787167-B2 OR US-9474358-B2 OR US-8641702-B2 OR US-3968789-A OR US-9138257-B2 OR US-9579250-B2 OR US-9032576-B2 OR US-10463531-B2 OR US-6743215-B2 OR US-8382690-B2 OR US-10278888-B2 OR US-8157753-B2 OR US-6980854-B2 OR US-7204832-B2).did. AND USPT.dbnm.) OR ((US-3494353-A OR US-3169521-A OR US-2078159-A OR US-1660821-A OR US-1657765-A OR US-1545027-A OR US-3536064-A OR US-2512536-A OR US-1955623-A OR US-1352894-A OR US-1339179-A OR US-1772501-A OR US-2183726-A OR US-1228669-A OR US-3467080-A OR US-2490074-A OR US-2424699-A OR US-2441682-A OR US-2548411-A OR US-2995768-A OR US-3154926-A OR US-2985166-A OR US-2809630-A OR US-2477883-A OR US-2472385-A OR US-1380986-A OR US-1955863-A).did. AND USOC.dbnm.) OR ((WO-2022006086-A1 OR WO-2021222573-A1 OR WO-2021050861-A1 OR WO-2021050868-A1 OR WO-2020227569-A1 OR WO-2020167756-A1 OR WO-2020139715-A1					

		OR WO-2019013972-A1 OR WO-2019014031-A1 OR WO-2018170121-A1 OR WO-2016209759-A1 OR CN-215133032-U OR CN-112932935-A OR DE-102020123082-A1 OR CN-113855514-A OR KR-20220062350-A OR KR-20220058677-A OR KR-20220030711-A OR CN-114010485-A OR KR-102325386-B1 OR WO-2021210750-A1 OR WO-2021211238-A1 OR CN-113350154-A OR CN-113274276-A OR KR-20210095422-A OR KR-20210091842-A OR CN-113116702-A OR CN-113081751-A OR CN-213490366-U OR CN-112791308-A OR CN-112773696-A OR CN-112741964-A OR KR-20210047406-A OR KR-20210044358-A OR KR-20210044035-A OR CN-112618960-A OR KR-20210036430-A OR KR-20210000722-U OR CN-112370646-A OR KR-20210018636-A OR KR-20210016729-A OR CN-112315773-A OR KR-20210013392-A OR CN-112245261-A OR CN-216439596-U OR CN-215938255-U OR CN-215779811-U OR CN-214859044-U OR CN-112891186-A OR CN-213157619-U OR CN-210844180-U OR CN-209933448-U OR KR-20210001066-A OR CN-111973428-A OR KR-102178263-B1 OR KR-20200126252-A OR CN-111821150-A OR WO-2020209497-A1 OR KR-102161933-B1 OR KR-20200100378-A OR WO-2020163738-A1 OR WO-2020159727-					

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		OR EP-1525872-A1 OR US-20140135798-A1 OR US-20180178032-A1 OR US-20210001148-A1 OR US-20210077338-A1 OR US-20210154093-A1 OR CN-110694170-A OR CN-107913174-A OR US-20140194900-A1 OR US-20170112713-A1 OR US-20190200814-A1 OR US-20190290076-A1 OR US-20180161237-A1 OR CN-209404585-U OR US-10973374-B1 OR US-20200261310-A1 OR US-20180289584-A1 OR WO-2014062647-A1 OR US-20200154874-A1 OR US-20180092449-A1 OR WO-2017027793-A1).did. AND DWPI.dbnm.)					
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L368	34	("2013/0213431" | "2012/0253246" | "2004/0260212").urpn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2022/09/21 01:49 PM
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L374	2	("20150045702" "20200154874").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/09/23 04:50 PM
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		11110260-B1 OR US- 10966515-B2 OR US- 10737107-B2 OR US- 10688290-B1 OR US- 10661072-B2 OR US- 7083580-B2 OR US- 6748266-B2 OR US- D693932-S OR US- 6535761-B2 OR US- 10518097-B2 OR US- 10285722-B2 OR US- 7282036-B2 OR US- 7258675-B2 OR US- 10252051-B2 OR US- 5489280-A OR US- 4821740-A OR US- 4427001-A OR US- 9787167-B2 OR US- 9474358-B2 OR US- 8641702-B2 OR US- 3968789-A OR US- 9138257-B2 OR US- 9579250-B2 OR US- 9032576-B2 OR US- 10463531-B2 OR US- 10335345-B2 OR US- 10568795-B2 OR US- 10278888-B2 OR US- 7335170-B2 OR US- 8882685-B2 OR US- 9925113-B2 OR US- 9925112-B2 OR US- 9925111-B2 OR US- 10098808-B2 OR US- 6401289-B1 OR US- 6743215-B2 OR US- 8382690-B2 OR US- 8157753-B2 OR US- 6980854-B2 OR US- 7204832-B2).did. AND USPT.dbnm.) OR ((US- 3494353-A OR US- 3169521-A OR US- 2078159-A OR US- 1660821-A OR US- 1657765-A OR US- 1545027-A OR US- 3536064-A OR US- 2512536-A OR US- 1955623-A OR US- 1352894-A OR US- 1339179-A OR US- 1772501-A OR US- 2183726-A OR US- 1228669-A OR US- 3467080-A OR US- 2490074-A OR US- 2424699-A OR US-					

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L378	2	("20150045702" "20080234611").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2022/10/12 07:17 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N202	327	(reciprocat$4 percuss$4 oscillat$4).clm. with (electric$4 light) with (detach$4 removab$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 10:58 AM
N203	163	(reciprocat$4 percuss$4 oscillat$4).clm. with (ring) with (attachment detach$4 removab$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 11:01 AM
N204	312	(reciprocat$4 percuss$4 oscillat$4).clm. with (ring diameter) with (attachment detach$4 removab$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 11:05 AM
N205	2	a61h$.cpc. and (reciprocat$4 percuss$4 oscillat$4).clm. with (ring diameter) with (attachment detach$4 removab$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 12:10 PM
N206	172	a61h$.cpc. and (reciprocat$4 percuss$4 oscillat$4).clm. with (attachment detach$4 removab$4)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/04 12:12 PM
N214	3	a61h$.cpc. and (reciprocat$4 percuss$4 oscillat$4).clm. with (attachment attachab$4 detach$4 removab$4) with (ring)	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/05 10:08 PM
N215	11	a61h$.cpc. and (reciprocat$4 percuss$4 oscillat$4 vibrat$4).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/03/05 10:08 PM

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

		with (attachment attachab$4 detach$4 removab$4) with (ring)					
N216	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/03/05 11:12 PM
N220	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/01 04:46 PM
N233	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/04 01:26 PM
N234	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/04 01:33 PM
N235	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/04 01:55 PM
N253	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/07 01:10 PM
N256	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/09 10:52 AM
N273	1	(US-20210401663-$).did.	(US-PGPUB)	OR	ON	ON	2022/04/09 10:49 PM

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/705,300	Wersland et al.
	Examiner	Art Unit
	CHRISTOPHER E MILLER	3785

✓	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	06/10/2022	10/12/2022							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
	11	✓	-							
	12	✓	✓							
	13	✓	✓							
	14	✓	✓							
	15	✓	✓							
	16	✓	✓							
	17	✓	✓							
	18	✓	✓							
	19		✓							
	20		✓							
	21		✓							

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/705,300	Wersland et al.
	Examiner	Art Unit
	CHRISTOPHER E MILLER	3785

CPC - Searched*		
Symbol	**Date**	**Examiner**
A61H 23/00,006; 7/00; 15/02; 22010/10, 105, 0153; A46B 13/02; 2200/102; A61M 35/003; A61N 2005/0644; 5/0616; A61F 2007/0087	06/07/2022	CEM
Updated above searches	09/21/2022	CEM

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

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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

Search Notes		
Search Notes	**Date**	**Examiner**
PE2E Keyword text search	06/04/2022	CEM
Inventor search	06/04/2022	CEM
Reviewed search history and search notes of application 17/361,966	06/04/2022	CEM
Updated above searches	09/21/2022	CEM

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

/CHRISTOPHER E MILLER/ Examiner, Art Unit 3785	

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Notice of References Cited	Application/Control No. 17/705,300	Applicant(s)/Patent Under Reexamination Wersland et al.	
	Examiner CHRISTOPHER E MILLER	Art Unit 3785	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20120253246-A1	10-2012	Yamazaki; Iwao	A61H39/04	601/101
*	B	US-20180295980-A1	10-2018	BOERSMA; JOLDERT MARIA	A46B13/008	1/1
*	C	US-20040260212-A1	12-2004	Cho, Hee-Yoon	A61N1/30	601/72
*	D	US-20130213431-A1	08-2013	Geva; Ziv	A45D33/00	132/320
*	E	US-20190290531-A1	09-2019	BOSMA; IVAR	A61F7/007	1/1
*	F	US-6401289-B1	06-2002	Herbert; Linda S.	A61H7/005	601/114
	G					
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FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/705,300	03/26/2022	Jason Wersland	5015.0690006	2416

186370 7590 10/21/2022

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
(Therabody)
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER	
MILLER, CHRISTOPHER E	

ART UNIT	PAPER NUMBER
3785	

NOTIFICATION DATE	DELIVERY MODE
10/21/2022	ELECTRONIC

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

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

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

e-office@sternekessler.com

Office Action Summary	Application No. 17/705,300	Applicant(s) Wersland et al.	
	Examiner CHRISTOPHER E MILLER	Art Unit 3785	AIA (FITF) Status Yes

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 16 September 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) 1-10 and 12-21 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) 1-10 and 12-21 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 3/26/2022 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: _____.

Notice of Pre-AIA or AIA Status

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

Status of Claims

2. This Action is in response to the amendment filed on September 16, 2022.

As directed by the amendment: Claims 1-10 and 12-18 were amended. Claim 11 was cancelled. Claims 19-21 are newly added, and thus claims 1-10 and 12-21 are pending and currently under consideration for patentability under 37 CFR 1.104.

Claim Objections

3. Claim 14 is objected to because of the following informalities:

Claim 14, line 2 recites "a distal end" and Examiner suggests --the distal end-- because claim 13 now recites "a distal end" of the reciprocating shaft.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

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

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

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

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

6. Claims 1-2 and 7 are rejected under 35 U.S.C. 103 as being unpatentable over Mabuchi (4,513,737) in view of Mabuchi (4,088,128) (hereinafter "Mabuchi '128") and Fuhr (2014/0031866).

Regarding claim 1, Mabuchi discloses a vibration therapy device (Fig. 1) comprising: a housing (body 1, Fig. 1) that includes a handle portion (handle 2, Fig. 1) and a head portion (space guide 5, Fig. 1); an electrical source ("electric motor" see col. 10, line 36, thus there is an electrical source connected with the motor 20); a motor (motor 20, Fig. 1) positioned in the housing (1); a push rod assembly (motor output shaft 21, rotating disc 17, rod shaft 18, crankshaft 19, rod shaft 3, actuator 4, patter connecting mechanism 12, and coupling 14, Figs. 1-2; see col. 2, lines 43-52) operatively connected (via motor shaft 21 rotating disc 17, Figs. 1-2; see col. 2, lines 43-52) to the motor (20), wherein the push rod assembly comprises: a reciprocating shaft (coupling 14, Fig. 18) having a distal end (the distal end of 14 is the end adjacent to flange 15, see Figs. 18-19); and an attachment member (rod 4, magnet 43, and yoke 45, Figs. 18-19) coupled to the distal end (see Figs. 18-19, the yoke 45 is attached to the interior of the reciprocating shaft 14, including at the distal end of 14), the attachment member (4, 43, 45) comprising a first magnet (magnet 43, Figs. 18-19), wherein the reciprocating shaft (14) is configured to reciprocate in response to activation of the motor (20; see Figs. 3-5; see also col. 2, lines 43-52 and Fig. 18), such that the attachment member (4, 43, 45) has a linear velocity (the reciprocation is in a linear direction and has a velocity, see col. 3, lines 38-63); and a reciprocating attachment (flange 15, magnet 44, tube 10, patter body 9, plate member 7, cushion

member 8, Figs. 18-19) removably received on the attachment member (via magnets 43, 44, Figs. 18-19), wherein the reciprocating attachment includes a second magnet (magnet 44, Figs. 18-19) that is magnetically attracted to the first magnet (43) to secure the reciprocating attachment on the attachment member (see col. 8, lines 11-15 and Figs. 18-19).

Mabuchi is silent regarding a switch for activating the motor; the velocity being between 0.06 m/s and 0.5 m/s.

Mabuchi '128 teaches a related reciprocating device (Fig. 1, Fig. 5) with an electrical source (battery device housed in control box 18, Fig. 5; see col. 3, lines 30-32), a switch (switch 19, Fig. 5) for activating the motor ("when the switch 19 is turned on, the motor 15 is energized" see col. 3, lines 30-32) and a velocity selecting knob (speed adjusting knob 20, labeled as "10" in Fig. 5; see col. 3, lines 37-39; see also col. 8, lines 24-26) to allow the rate of reciprocation/tapping to be freely selected (col. 3, lines 37-39).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the electrical source of Mabuchi to include a battery device with a switch for activating the motor, and a knob to adjust the velocity of reciprocation/tapping by adjusting the voltage to the motor as taught by Mabuchi '128 so that each user can freely adjust the speed of reciprocation/tapping to best suit their particular needs.

The modified Mabuchi/Mabuchi '128 device thus has an electric motor (20, Fig. 1 of Mabuchi) wherein the reciprocating velocity depends upon the rotation speed of the motor (see col. 3, lines 38-50 of Mabuchi), and the motor speed is freely adjustable by a

velocity selecting knob (20, Mabuchi '128) adjusting the voltage supplied to the motor (see col. 3, lines 37-39 of Mabuchi '128). The modified device does not specifically state that the velocity is between 0.06 m/s and 0.5 m/s.

Fuhr teaches a related reciprocating device (Fig. 1) with an electrical source (removable battery 30, Fig. 2) and a switch (triggering system 120, Fig. 1) for activating a motor (solenoid 82, Fig. 4) to reciprocate a skin-contacting attachment (nose piece 98, Fig. 4). Fuhr discloses the linear velocities of up to four different settings of various reciprocating devices (see the table above [0076]), and these velocities range from 0.44 m/s to 1.82 m/s (see the table above [0076]).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the freely adjustable velocity setting knob of Mabuchi/Mabuchi '128 to include velocity settings that would cover *at least* 0.44 m/s to 1.82 m/s as generally taught by Fuhr because these velocities are shown to be suitable in prior art reciprocating devices and different speed settings would be desirable for different uses and different patients.

Furthermore, it has been held that where the general conditions of a claim are disclosed in the prior art (Mabuchi/Mabuchi '128 discloses a freely adjustable velocity knob for providing reciprocating or patting treatment to the skin), discovering the optimum or workable ranges (such as 0.06-0.5 m/s) involves only routine skill in the art. *In re Aller*, 105 USPQ 233. MPEP 2144.05. Lastly, it is noted that even at higher velocities such as 1.82 m/s, there will at least be moments during reciprocation where the velocity is between 0.06-0.5 m/s, because the velocity approaches zero when the periodic reciprocating movement reverses direction (see col. 3, lines 52-53 of Mabuchi).

Regarding claim 2, the modified Mabuchi/Mabuchi ‘128/Fuhr device discloses wherein the reciprocating attachment (flange 15, magnet 44, tube 10, patter body 9, plate member 7, cushion member 8, Figs. 18-19) includes an attachment member recess defined therein (flange 15 defines a recess to receive the yoke 46, magnet 44, and the distal end of actuator rod 4, see Figs. 18-19 of Mabuchi), wherein the attachment member is received in the attachment member recess (distal end of rod 4 is received in the recess of 15, see Fig. 18 of Mabuchi), wherein the attachment member (4, 43, 45) defines an attachment member diameter (such as the diameter of actuator rod 4, Figs. 18-19 of Mabuchi) and the attachment member recess defines an attachment member recess diameter (the diameter of the recess formed by flange 15, Fig. 18 of Mabuchi), wherein the attachment member diameter (diameter of rod 4, Fig. 18 of Mabuchi) is smaller than the attachment member recess diameter (the rod 4 fits within the recess formed by flange 15 because of its relatively smaller diameter, see Figs. 18-19 of Mabuchi), and wherein the first and second magnets (43, 44, Fig. 18 of Mabuchi) secure the reciprocating attachment (15, 44, 10, 9, 7, 8, Figs. 18-19 of Mabuchi) on the attachment member (4, 43, 45, Figs. 18-19 of Mabuchi) during reciprocation (see col. 8, lines 11-15 and Figs. 18-19 of Mabuchi).

Regarding claim 7, the modified Mabuchi/Mabuchi ‘128/Fuhr device discloses wherein the reciprocating shaft (14, Fig. 18 of Mabuchi) is configured to reciprocate in response to activation of the motor (20) such that the attachment member (4, 43, 45, Figs. 18-19 of Mabuchi) has a linear velocity between 0.11 m/s and 0.4 m/s (the device has been modified so that the adjustable velocity knob of Mabuchi ‘128 covers velocities of at least 0.44 m/s to 1.82 m/s as generally taught by Fuhr. Furthermore, there will at

least be moments during reciprocation where the velocity is between 0.11-0.4 m/s, because the velocity approaches zero when the periodic reciprocating movement reverses direction, see col. 3, lines 52-53 of Mabuchi).

Additionally, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the freely adjustable velocity setting knob of Mabuchi/Mabuchi '128/Fuhr to include velocity settings that would cover *at least* 0.11 m/s to 1.82 m/s to provide a wider range of treatment speeds to better meet the needs of different uses and different patients, since it has been held that where the general conditions of a claim are disclosed in the prior art (Mabuchi/Mabuchi '128 discloses a freely adjustable velocity knob for providing reciprocating or patting treatment to the skin), discovering the optimum or workable ranges (such as 0.11-0.4 m/s) involves only routine skill in the art. *In re Aller*, 105 USPQ 233. MPEP 2144.05.

7. Claim 3 is rejected under 35 U.S.C. 103 as being unpatentable over Mabuchi (4,513,737) in view of Mabuchi (4,088,128) (hereinafter "Mabuchi '128") and Fuhr (2014/0031866) as applied to claim 2 above, and further in view of Lee et al. (KR 10-2020-0051098).

Regarding claim 3, the modified Mabuchi/Mabuchi '128/Fuhr device discloses wherein the reciprocating attachment (15, 44, 10, 9, 7, 8, Figs. 18-19 of Mabuchi) defines a reciprocating attachment diameter (diameter of cushion member 8, for example) configured to reciprocate, but is silent regarding the head portion comprising a module seat, a ring module removably secured to the module seat, wherein the ring module includes a central opening that defines a central opening diameter, wherein the

central opening diameter is larger than the reciprocating attachment diameter, such that the reciprocating attachment is configured to reciprocate within and relative to the ring module.

Lee teaches a related vibratory beauty treatment device (Fig. 1) wherein the head of the device (upper half of body 12, Fig. 2) comprises a module seat (opening configured to receive light emitting unit 20, Fig. 2) defined on the head portion (see Fig. 2), a ring module (light emitting unit 20, Fig. 2) secured to the module seat (see Fig. 2), wherein the ring module (20) includes a central opening (see Fig. 2) that defines a central opening diameter (the central opening of 20 has a given diameter), wherein the central opening diameter is larger than a reciprocating attachment diameter (the central opening 20 of 20 has a diameter greater than the diameter of vibrating portion 14, Fig. 2; “substrate 24 is disposed around the vibration unit 14” see the last four lines of page 2 of the translation), such that the reciprocating attachment (14) is configured to reciprocate (vibration/tapping, see the first paragraph of page 3 of the translation) within and relative to the ring module so that both light therapy and vibration/tapping can be provided to the skin at the same time (see Fig. 2, and see the first paragraph of page 3 of the translation).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the head portion of Mabuchi/Mabuchi ‘128/Fuhr to be enlarged to have room to receive a ring module that has a central opening to still allow the reciprocating unit to move relative to the ring module as taught by Lee so that the modified device can simultaneously provide light

therapy for beneficial cosmetic effects to the skin (see the first paragraph of page 3 of the translation of Lee) together with the reciprocation.

The modified device does not specifically state that the ring module (light emitting unit 20, Fig. 2 of Lee) is removable. However, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the ring module of Mabuchi/Mabuchi '128/Fuhr/Lee to have the ring module removably attached to the module seat, since it has been held that if it were considered desirable for any reason to obtain access to the removed part, it would be obvious to make the element removable for that purpose (MPEP 2144)(V)(C). There are many possible reasons one of ordinary skill in the art would recognize to make the light emitting module removable. For example, it would make it easier to access and repair/replace damaged light emitting parts and repair/replace the reciprocating attachment and attachment member.

8. **Claims 5-6 are rejected under 35 U.S.C. 103 as being unpatentable over Mabuchi (4,513,737) in view of Mabuchi (4,088,128) (hereinafter "Mabuchi '128") and Fuhr (2014/0031866) as applied to claim 1 above, and further in view of Kang et al. (2016/0192814).**

Regarding claim 5, the modified Mabuchi/Mabuchi '128/Fuhr device is silent regarding a flexible sleeve that includes a proximal end and a distal end, wherein the flexible sleeve at least partially surrounds the reciprocating shaft, and wherein the distal end of the flexible sleeve is secured to the attachment member and the proximal end of the flexible sleeve is secured to the housing.

Kang teaches a related vibratory device (Fig. 1) that includes a flexible sleeve (first sealing member 52, Fig. 4) that includes a proximal end (upper portion of sealing plate 52a adjacent boss 18, Fig. 7) and a distal end (lower portion of sealing hole 52b, adjacent plate 44, Fig. 7), wherein the flexible sleeve (52) at least partially surrounds a reciprocating shaft (center shaft 34, Fig. 7), wherein the distal end (lower portion of 52b, Fig. 7) of the flexible sleeve (52) is secured to the reciprocating shaft (34, Fig. 7) and the proximal end (upper portion of 52a, Fig. 7) is secured to part of the housing (via support boss 18 attached to case member 14a, Fig. 6). The flexible sleeve (52) helps to prevent water from penetrating through the housing (14) and shaft area (see the first sentence of [0075]) to prevent water from damaging internal components even if the user mistakenly soaks the device (see the last two sentences of [0075]). Furthermore, it is noted that "[a] person of ordinary skill is also a person of ordinary creativity, not an automaton," and would be able to fit this teaching of a flexible sleeve together with the attachment member and housing of Mabuchi/Mabuchi '128/Fuhr, "like pieces of a puzzle" to obtain the expected benefit of protecting the internal parts from being damaged by water. See *KSR Int'l. Co. v. Teleflex Inc.,* 550 U.S. 398, 421 (2007).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the reciprocating shaft, attachment member, and housing of Mabuchi/Mabuchi '128/Fuhr to include a flexible sleeve that at least partially surrounds the reciprocating shaft, the distal end of the flexible sleeve is secured to the attachment member and the proximal end of the flexible sleeve is secured to the housing, as generally taught by Kang so that the internal components of the device are protected from being accidentally damaged by water.

Regarding claim 6, the modified Mabuchi/Mabuchi '128/Fuhr/Kang device discloses wherein the reciprocating shaft (14, Fig. 18 of Mabuchi) includes an opening in the distal end thereof (an opening configured to receive yoke 45, magnet 43 and rod 4, Figs. 18-19 of Mabuchi), wherein the attachment member (rod 4, magnet 43, and yoke 45, Figs. 18-19 of Mabuchi) includes a shaft (rod 4, Figs. 18-19 of Mabuchi) that is received in the opening in the reciprocating shaft (see Fig. 18 of Mabuchi, shaft 4 passes through the opening in shaft 14).

The modified device does not specifically state wherein the distal end of the flexible sleeve (52, Kang) is secured between the distal end of the reciprocating shaft (4, Fig. 18 of Mabuchi) and the attachment member (rod 4, magnet 43, and yoke 45, Figs. 18-19 of Mabuchi). However, it is reiterated that "[a] person of ordinary skill is also a person of ordinary creativity, not an automaton," and would be able to fit this teaching of a flexible sleeve together with the attachment member and reciprocating shaft of Mabuchi/Mabuchi '128/Fuhr/Kang, "like pieces of a puzzle" to obtain the expected benefit of protecting the internal parts from being damaged by water. See *KSR Int'l. Co. v. Teleflex Inc.,* 550 U.S. 398, 421 (2007).

Furthermore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the location of the flexible sleeve of Mabuchi/Mabuchi '128/Fuhr/Kang to have the distal end secured by being pressed between the distal end of the reciprocating shaft and the attachment member, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70. MPEP 2144.04.

9. Claims 8-12 are rejected under 35 U.S.C. 103 as being unpatentable over Lee et al. (KR 10-2020-0051098) in view of Lin (2015/0045702), Tammabattula (2020/0154874), and Mabuchi (4,513,737).

Regarding claim 8, Lee discloses a therapy device (Fig. 1) comprising: a housing (body 12, Fig. 2) that includes a handle portion (lower, cylindrical portion of 12, Fig. 1 is capable of being held by a hand as the abstract states it "can be gripped"), a head portion (upper half of body 12, Fig. 2) and a module seat (opening configured to receive light emitting unit 20, Fig. 2) defined on the head portion (see Fig. 2), an electrical source (the device will have an electrical source to operate the motorized vibrating unit 14, and the light emitting unit 20, Fig. 2), a therapy module (light emitting unit 20, Fig. 2) secured to the module seat (see Fig. 2); a motor positioned in the housing ("the body 12 has a cylindrical structure, and vibration generating and transmitting parts such as a motor … may be installed to generate vibration inside the cylindrical body 12" see the paragraph beginning "The main body 10 is a part…" on the second page of the translated document); a switch (button 13, Fig. 3) for activating the motor ("button 13 for a user to operate the device and adjust the mode" see the paragraph beginning "The main body 10 is a part…" on the second page of the translated document) and a push rod assembly operatively connected to the motor (spring, diaphragm, and shaft to transmit the vibration of vibrating unit 14, see Fig. 2 and the penultimate paragraph of page 2 of the translated document. Also see lines 8-12 of page 3 of the translated document, the shaft will be providing "a tapping or massage … a patting member" to the user's skin and thus reads on a push rod assembly), wherein the push rod assembly includes an attachment member (portion labeled 14 in Fig. 2), wherein the therapy

module (20) includes a central opening defined therein (see Fig. 2), and wherein the attachment member (14) extends into the central opening (the attachment member extends through the central opening to connect to contact portion 30, Fig. 2).

Lee is silent regarding wherein the module seat includes a first set of magnets; wherein the module seat includes a first securement protrusion extending therefrom and includes a first securement recess defined therein; does not specifically state the therapy module is removably secured to the module seat; wherein the therapy module includes a second set of magnets that are magnetically attracted to the first set of magnets; the therapy module including a second securement protrusion extending therefrom and includes a second securement recess defined therein, wherein the first securement protrusion is received in the second securement recess, and wherein the second securement protrusion is received in the first securement recess; the push rod assembly comprising a reciprocating shaft having a distal end coupled to the attachment member, and the attachment member comprising a magnet.

Lin teaches a related cosmetic device (Fig. 1) comprising: a housing (holding unit 11, Fig. 1) that includes a handle portion (lower half of unit 11, Fig. 1), a head portion (upper half of unit 11, Fig. 1) and a module seat (notch 111, the annular rim above the notch, first magnetic attraction components 112, and first connection terminals 113 are considered the module seat, Fig. 1) defined on the head portion (upper half of unit 11, Fig. 1), wherein the module seat includes a first set of magnets (first magnetic attraction components 112, Fig. 1), wherein the module seat includes a first securement recess (notch 111, Fig. 1) defined therein, an electrical source (power supply unit 114, Fig. 1), a therapy module (connection part 13, cover body 15, and cosmetic assembly 17,

collectively form a therapy module, Fig. 1) removably secured to the module seat (removably secured via magnetic attraction components parts 112 and 132, see Fig. 1 and see lines 10-15 of [0010]), wherein the therapy module includes a second set of magnets (second magnetic attraction components 132, Fig. 1) that are magnetically attracted to the first set of magnets (see lines 20-29 of [0017]), wherein the therapy module includes a second securement protrusion (fixing block 131, Fig. 1) extending therefrom, and wherein the second securement protrusion (131, Fig. 1) is received in the first securement recess (111, Fig. 1; see lines 14-17 of [0017]). The detachable connection also includes a first set of electrical contacts (113, Fig. 1) that couple with a second set of electrical contacts (133, Fig. 1). Furthermore, it is noted that "[a] person of ordinary skill is also a person of ordinary creativity, not an automaton," and would be able to fit this teaching of two sets of magnets to detachably couple a module seat and a therapy module "like pieces of a puzzle" to obtain the expected benefit of providing a secure, but easily detachable electronic connection. See *KSR Int'l. Co. v. Teleflex Inc.,* 550 U.S. 398, 421 (2007).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the module seat and therapy module of Lee to each have a set of magnets that are magnetically attracted together, a first securement recess, a second securement protrusion, and to have the electrical contacts between the modules as taught by Lin because this will allow the cleansing attachment to be securely, but easily detachable so that it can be exchanged with other assemblies to meet the needs of different users (see lines 10-15 of [0010] of Lin).

The modified Lee/Lin device is silent regarding the module seat including a first securement protrusion extending therefrom; and the therapy module including a second securement recess defined therein, wherein the first securement protrusion is received in the second securement recess.

Tammabattula teaches a related skincare device (Fig. 1) with a module seat (top-surface 4305, Fig. 43) including a first securement protrusion extending therefrom (connector 4301, Fig. 43; removably coupled to a complementary connector 301, Fig. 44; see lines 4-10 of [0269] and note that connector 301 is a female connection, see the penultimate sentence of [0176]); and a therapy module (skincare device 3600, Fig. 40) including a second securement recess defined therein (connector 301, Fig. 44; this can be a female connection and thus have a recess defined therein, see the penultimate sentence of [0176]), wherein the first securement protrusion (4301, Fig. 43) is received in the second securement recess (301, Fig. 44; see lines 4-10 of [0269]). This allows the module seat and therapy module connection to transmit electrical power and communicate data between the removable parts (see the last eighteen lines of [0269]).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the first and second connection terminals (113, 131, Fig. 1 of Lin) of Lee/Lin to be replaced with a male first securement protrusion and a female second securement recess as taught by Tammabattula because this is a simple substitution of one known electrical connection coupling for another known electrical connection coupling, and would provide an expected result of allowing electrical power and data to be transmitted between the separable modules upon connection.

The modified Lee/Lin/Tammabattula device is still silent regarding the push rod assembly comprising a reciprocating shaft having a distal end coupled to the attachment member, and the attachment member comprising a magnet.

Mabuchi teaches a related reciprocating device (Fig. 1) with a reciprocating shaft (coupling 14, Fig. 18) having a distal end (end of coupling 14 that contacts flange 15, Figs. 18-19), an attachment member (magnet 43 and yoke 45, Figs. 18-19) coupled to the distal end of the reciprocating shaft (see Figs. 18-19, the yoke 45 is attached to the interior of the reciprocating shaft 14, including at the distal end of 14), the attachment member (43, 45) comprising a first magnet (magnet 43, Figs. 18-19) and a treatment attachment (plate member 7, cushion member 8, patter body 9, flange 15, Fig. 18) includes a second magnet (magnet 44, Figs. 18-19) that is magnetically attracted to the first magnet (43) as part of an advantageous magnetic coupling device (magnets 43, 44, Figs. 18-19 are able to easily remove and connect different attachments, see col. 8, lines 11-15 and col. 8, lines 33-43).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the push rod assembly of Lee/Lin/Tammabattula to be replaced with a reciprocating shaft having an attachment member coupled to the distal end and comprising a magnet configured to detachably couple to a treatment attachment having a second magnet as taught by Mabuchi because this would provide expected results of a magnetic coupling device that is advantageously easy to change different treatment attachments (see col. 8, lines 33-43 of Mabuchi).

Regarding claim 9, the modified Lee/Lin/Tammabattula/Mabuchi device discloses wherein one of the first securement protrusion and the second securement recess includes female electrical contacts (second securement recess 301, Fig. 44 includes female electrical contacts, see the penultimate sentence of [0176] of Tammabattula) and the other of the first securement protrusion and second securement recess includes male electrical contacts (first securement protrusion 4301 shown to include male electrical contacts in Fig. 43, and is stated to complementary couple with 301, a female electrical connector, see lines 4-10 of [0269] of Tammabattula), and wherein connection of the male electrical contacts (4301) and female electrical contacts (301) provides electrical communication between the electrical source and the therapy module (see lines 29-33 of [0017] of Lin, and the last eighteen lines of [0269] of Tammabattula).

Regarding claim 10, the modified Lee/Lin/Tammabattula/Mabuchi device discloses wherein the therapy module (light emitting unit 20, Fig. 2 of Lee) provides at least one of cold therapy, heat therapy, LED light therapy, microcurrent therapy, photobiomodulation therapy, radio frequency therapy, cleansing therapy or ultrasound therapy (light emitting unit 20 has an “LED module 22” that provides LED light therapy).

Regarding claim 12, the modified Lee/Lin/Tammabattula/Mabuchi device discloses wherein the male electrical contacts (4301, Fig. 43 of Tammabattula) include four prongs (see Fig. 43 of Tammabattula, there are at least four prongs), and discloses that the connection provides both electrical communication and data communication (see the last eighteen lines of [0269] of Tammabattula), but does not specifically state that two of the prongs provide electrical communication and two of the prongs provide data communication.

However, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the four prongs of the male electrical contacts of Lee/Lin/Tammabattula/Mabuchi to have two prongs for electrical communication and two prongs for data communication, since it has been held that where the general conditions of a claim are disclosed in the prior art (transmitting electrical communication and data communication via male/female electrical connection with at least four prongs taught by Tammabattula), discovering the optimum or workable ranges (two prongs for electrical communication, two prongs for data communication) involves only routine skill in the art. *In re Aller*, 105 USPQ 233. MPEP 2144.05.

10. **Claims 13-16 are rejected under 35 U.S.C. 103 as being unpatentable over Mabuchi (4,513,737) in view of Mabuchi (4,088,128)("Mabuchi '128") and Kang et al. (2016/0192814).**

Regarding claim 13, Mabuchi discloses a vibration therapy device (Fig. 1) comprising: a housing (body 1, Fig. 1) that includes a handle portion (handle 2, Fig. 1) and a head portion (space guide 5, Fig. 1); an electrical source ("electric motor" see col. 10, line 36, thus there is an electrical source connected with the motor 20); a motor (motor 20, Fig. 1) positioned in the housing (1); a push rod assembly (motor output shaft 21, rotating disc 17, rod shaft 18, crankshaft 19, rod shaft 3, actuator 4, patter connecting mechanism 12, and coupling 14, Figs. 1-2; see col. 2, lines 43-52) operatively connected (via motor shaft 21 rotating disc 17, Figs. 1-2; see col. 2, lines 43-52) to the motor (20), wherein the push rod assembly comprises: a reciprocating shaft (coupling 14, Fig. 18) having a distal end (the distal end of 14 is the end adjacent to flange 15, see Figs. 18-19); and an attachment member (flange 15, slider tube 10, Figs.

18-19) coupled to the distal end of the reciprocating shaft (flange 15 and slider tube 10 are coupled to the distal end of 14 by the flange contacting 14 and magnets 43, 44, being attracted to one another, see Figs. 18-19 and see col. 8, lines 11-15), the attachment member (15, 10) comprising a magnet (magnet 44, Fig. 18).

Mabuchi is silent regarding a switch for activating the motor; and a flexible sleeve that includes a proximal end and a distal end, wherein the flexible sleeve at least partially surrounds the reciprocating shaft, wherein the distal end of the flexible sleeve is secured to the attachment member and the proximal end of the flexible sleeve is secured to the housing.

Mabuchi '128 teaches a related reciprocating device (Fig. 1, Fig. 5) with an electrical source (battery device housed in control box 18, Fig. 5; see col. 3, lines 30-32), a switch (switch 19, Fig. 5) for activating the motor ("when the switch 19 is turned on, the motor 15 is energized" see col. 3, lines 30-32) and a velocity selecting knob (speed adjusting knob 20, labeled as "10" in Fig. 5; see col. 3, lines 37-39; see also col. 8, lines 24-26) to allow the rate of reciprocation/tapping to be freely selected (col. 3, lines 37-39).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the electrical source of Mabuchi to include a battery device with a switch for activating the motor, and a knob to adjust the velocity of reciprocation/tapping by adjusting the voltage to the motor as taught by Mabuchi '128 so that each user can freely adjust the speed of reciprocation/tapping to best suit their particular needs.

The modified Mabuchi/Mabuchi '128 device is still silent regarding a flexible sleeve that includes a proximal end and a distal end, wherein the flexible sleeve at least partially surrounds the reciprocating shaft, wherein the distal end of the flexible sleeve is secured to the attachment member and the proximal end of the flexible sleeve is secured to the housing.

Kang teaches a related vibratory device (Fig. 1) that includes a flexible sleeve (first sealing member 52, Fig. 4) that includes a proximal end (upper portion of sealing plate 52a adjacent boss 18, Fig. 7) and a distal end (lower portion of sealing hole 52b, adjacent plate 44, Fig. 7), wherein the flexible sleeve (52) at least partially surrounds a reciprocating shaft (center shaft 34, Fig. 7), wherein the distal end (lower portion of 52b, Fig. 7) of the flexible sleeve (52) is secured to the reciprocating shaft (34, Fig. 7) and the proximal end (upper portion of 52a, Fig. 7) is secured to part of the housing (via support boss 18 attached to case member 14a, Fig. 6). The flexible sleeve (52) helps to prevent water from penetrating through the housing (14) and shaft area (see the first sentence of [0075]) to prevent water from damaging internal components even if the user mistakenly soaks the device (see the last two sentences of [0075]). Furthermore, it is noted that "[a] person of ordinary skill is also a person of ordinary creativity, not an automaton," and would be able to fit this teaching of a flexible sleeve together with the attachment member and housing of Mabuchi/Mabuchi '128, "like pieces of a puzzle" to obtain the expected benefit of protecting the internal parts from being damaged by water. See *KSR Int'l. Co. v. Teleflex Inc.,* 550 U.S. 398, 421 (2007).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the reciprocating shaft,

attachment member, and housing of Mabuchi/Mabuchi '128 to include a flexible sleeve that at least partially surrounds the reciprocating shaft, the distal end of the flexible sleeve is secured to the attachment member and the proximal end of the flexible sleeve is secured to the housing, as generally taught by Kang so that the internal components of the device are protected from being accidentally damaged by water.

Regarding claim 14, the modified Mabuchi/Mabuchi '128/Kang device discloses wherein the reciprocating shaft (14, Fig. 18 of Mabuchi) includes an opening in a distal end thereof (shaft 14 has a hollow opening at its distal end configured to receive magnet 43 and rod 4, Figs. 18-19 of Mabuchi), wherein the attachment member (15, 10, Figs. 18-19 of Mabuchi) includes a shaft (rod 4, Figs. 18-19 of Mabuchi) that is received in the opening in the reciprocating shaft (see Fig. 18, shaft 4 passes through the opening in shaft 14).

The modified device does not specifically state wherein the distal end of the flexible sleeve (52, Kang) is secured between the distal end of the reciprocating shaft (14, Fig. 18 of Mabuchi) and the attachment member (15, 10, Figs. 18-19 of Mabuchi). However, it is reiterated that "[a] person of ordinary skill is also a person of ordinary creativity, not an automaton," and would be able to fit this teaching of a flexible sleeve together with the attachment member and reciprocating shaft of Mabuchi/Mabuchi '128/Kang "like pieces of a puzzle" to obtain the expected benefit of protecting the internal parts from being damaged by water. See *KSR Int'l. Co. v. Teleflex Inc.,* 550 U.S. 398, 421 (2007).

Furthermore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the location of the

flexible sleeve of Mabuchi/Mabuchi '128/Kang to have the distal end secured by being pressed between the distal end of the reciprocating shaft and the attachment member, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70. MPEP 2144.04.

Regarding claim 15, the modified Mabuchi/Mabuchi '128/Kang device discloses wherein the housing includes a protrusive portion (space guide 5 is a protrusive portion because it protrudes outwardly from the rest of the housing, Fig. 1 of Mabuchi), and wherein the proximal end of the flexible sleeve (52, Kang) is secured by the protrusive portion (in the modified device, the proximal end of the sleeve 52 of Kang is secured to the housing at the distal end of the reciprocating shaft, which would be at the protrusive portion).

Regarding claim 16, the modified Mabuchi/Mabuchi '128/Kang device discloses wherein the flexible sleeve (52, Kang) includes an annular ridge (upward extending portion 52C, Fig. 7 of Kang) extending therefrom that is received in a groove (groove formed by guide sleeve 15 and support boss 18, Fig. 7 of Kang. In the modified device, the portion 52c would similarly connect to a groove in the housing of Mabuchi to be attached) in the housing (the entire sleeve 52 is inside the housing, and would also be in the housing in the modified device).

11. **Claims 17-18 are rejected under 35 U.S.C. 103 as being unpatentable over Sakai et al. (2008/0234611) in view of Mabuchi (4,513,737) and Lin (2015/0045702).**

Regarding claim 17, Sakai discloses a vibration therapy device (Fig. 1) comprising: a housing (main body 2, Fig. 1) that includes a handle portion (upper half of body 2, with switch 19, Fig. 1; enables holding by one hand, see the first sentence of

[0029]), a head portion (lower half of body 2, Fig. 1) and a module seat (bottom of frame 8 including plate 9 and cover 11, Fig. 3) defined on the head portion (on the lower-most portion of the body 2, at bottom 2B, see Fig. 3), an electrical source (battery 18, Fig. 1), a motor (motor 13, Fig. 1) positioned in the housing (2, Fig. 1), a switch (switch 19, Fig. 1) for activating the motor (see the last sentence of [0029]), a push rod assembly (reduction gear mechanism 14, crank mechanism 15, connecting rod 16, connection member 17, Fig. 1) operatively connected (via motor shaft 13A connected to reduction gear mechanism 14, Fig. 1) to the motor (13, Fig. 1), wherein the push rod assembly (14, 15, 16, 17, Fig. 1) comprises a reciprocating shat (connecting rod 16 reciprocates up and down, Fig. 1, see lines 33-37 of [0029]) having a distal end (end of 16 adjacent connection 17, Fig. 1); and an attachment member (connection intermediary member 17, Fig. 1) coupled to the distal end of the reciprocating shaft (17 is coupled to the distal end of shaft 16, see Fig. 1); a cleansing attachment (treating section 3, Fig. 3. This is a “cleansing” attachment because it is part of a hair and scalp washing device, see the first sentence of [0001]) removably received on the attachment member (17; see lines 25-33 of [0029], the hook 17A of member 17 is detachably connected to a hook receiving portion 4B in the upper surface of the central portion of the base portion 4, see Fig. 3), wherein the cleansing attachment (3) includes a central section (the central section of base portion 4 inside ring of protrusions 7, Figs. 3-5), wherein when the attachment member (17) reciprocates (as in Figs. 4-5), the central section flexes (see Figs. 4-5, the central section of flexible base portion 4 flexes from a convex shape in Fig. 4 to a concave shape in Fig. 5; see also lines 9-13 of [0041]).

Sakai is silent regarding wherein the module seat includes a first set of magnets, the attachment member comprising a first magnet; wherein the cleansing attachment includes a second magnet that is magnetically attracted to the first magnet to secure the cleansing attachment on the attachment member; wherein the cleansing attachment includes a second set of magnets that are magnetically attracted to the first set of magnets to removably secure the cleansing attachment to the module seat.

Mabuchi teaches a related reciprocating device (Fig. 1) with a reciprocating shaft (coupling 14, Fig. 18), an attachment member (magnet 43 and yoke 45, Figs. 18-19) coupled to the distal end of the reciprocating shaft (see Figs. 18-19, the yoke 45 is attached to the interior of the reciprocating shaft 14, including at the distal end of 14), the attachment member (43, 45) comprising a first magnet (magnet 43, Figs. 18-19) and a treatment attachment (plate member 7, cushion member 8, patter body 9, flange 15, Fig. 18) includes a second magnet (magnet 44, Figs. 18-19) that is magnetically attracted to the first magnet (43) as part of an advantageous magnetic coupling device (magnets 43, 44, Figs. 18-19 are able to easily remove and connect different attachments, see col. 8, lines 11-15 and col. 8, lines 33-43).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the hooked connection member (17A) and hook receiving part (4B) of Sakai to be replaced with a pair of first and second magnets configured to detachably couple the cleaning attachment at its central section as taught by Mabuchi because this is a simple substitution of one known detachable connection for a reciprocating rod (hook-shaped connection 17A coupling with hook receiving part 4B in Sakai) for another known detachable connection for a

reciprocating rod (magnets 43, 44, being coupled together by rotation as seen in Figs. 18-19 of Mabuchi) and would provide expected results of a magnetic coupling device that is advantageously easy to change different cleansing attachments (see col. 8, lines 33-43 of Mabuchi).

The modified Sakai/Mabuchi device is still silent regarding wherein the module seat includes a first set of magnets, and the cleansing attachment includes a second set of magnets that are magnetically attracted to the first set of magnets to removably secure the cleansing attachment to the module seat. However, the use of a set of magnets to provide a secure, detachable connection is well known in the art.

For example, Lin teaches a related cosmetic treatment device (Fig. 1) with a housing (holding unit 11, Fig. 1) that includes a handle portion (lower half of unit 11, Fig. 1), a head portion (upper half of unit 11, Fig. 1) and a module seat (notch 111, the annular rim above the notch, first magnetic attraction components 112, and first connection terminals 113 are considered the module seat, Fig. 1) defined on the head portion (upper half of unit 11, Fig. 1), wherein the module seat includes a first set of magnets (first magnetic attraction components 112, Fig. 1), and a therapy attachment (connection part 13, 15, 17, Fig. 1) includes a second set of magnets (magnetic attraction components 132, Fig. 1) that are magnetically attracted to the first set of magnets (112; see lines 20-29 of [0017]) to removably secure the attachment to the module seat (see lines 10-15 of [0010]). Furthermore, it is noted that "[a] person of ordinary skill is also a person of ordinary creativity, not an automaton," and would be able to fit this teaching of two sets of magnets to detachably couple a module seat and an attachment into the module seat and cleansing attachment of Sakai/Mabuchi "like

pieces of a puzzle" to obtain the expected benefit of providing a secure, but easily detachable connection. See *KSR Int'l. Co. v. Teleflex Inc.,* 550 U.S. 398, 421 (2007).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the periphery of the module seat and cleansing attachment of Sakai/Mabuchi to each have a set of magnets that are magnetically attracted together as taught by Lin because this will allow the cleansing attachment to be securely, but easily detachable so that it can be exchanged with other assemblies to meet the needs of different users (see lines 10-15 of [0010] of Lin).

Regarding claim 18, the modified Sakai/Mabuchi/Lin device discloses wherein the module seat (bottom of frame 8 including plate 9 and cover 11, Fig. 3 of Sakai) includes a first securement protrusion extending therefrom and includes a first securement recess defined therein (see the intersection of frame 8 and edge 4A in Fig. 4 of Sakai. The module seat has a first securement protrusion as the portion of 8 extends outwardly, and immediately above the protrusion of 8 is a first securement recess configured to receive protruding edge 4A of the cleansing attachment; see also the last sentence of [0028] describing this groove), wherein the cleansing attachment (3) includes a second securement protrusion (the protruding edge 4A, Fig. 4 of Sakai) extending therefrom and includes a second securement recess defined therein (see the intersection of frame 8 and edge 4A in Fig. 4 of Sakai. The cleansing attachment has a second securement protrusion from protruding edge 4A, and immediately below the protrusion 4A is a second securement recess configured to receive protruding frame 8), wherein the first securement protrusion is received in the second securement recess,

and wherein the second securement protrusion is received in the first securement recess (see the last sentence of [0028], the first securement protrusion 8 is received in the second securement recess immediately below protrusion 4A. The second securement protrusion 4A is received in the first securement recess immediately above the protrusion of 8).

12. Claim 19 is rejected under 35 U.S.C. 103 as being unpatentable over Mabuchi (4,513,737) in view of Mabuchi (4,088,128) (hereinafter "Mabuchi '128") and Fuhr (2014/0031866) as applied to claim 1 above, and further in view of Lee et al. (KR 10-2020-0051098) and Lin (2015/0045702).

Regarding claim 19, the modified Mabuchi/Mabuchi '128/Fuhr device is silent regarding the head portion comprising a module seat configured to removably receive a therapy module, wherein the module seat surrounds the attachment member, and wherein the module seat includes a set of magnets configured to removably secure the therapy module.

Lee teaches a related vibratory beauty treatment device (Fig. 1) wherein the head portion of the device (upper half of body 12, Fig. 2) comprises a module seat (opening configured to receive light emitting unit 20, Fig. 2) configured to receive a therapy module (light emitting unit 20, Fig. 2), wherein the module seat surrounds the attachment member (the central opening 20 surrounds the vibrating portion 14, Fig. 2; "substrate 24 is disposed around the vibration unit 14" see the last four lines of page 2 of the translation), such that the reciprocating attachment (14) is configured to reciprocate (vibration/tapping, see the first paragraph of page 3 of the translation) within and relative to the ring module so that both light therapy and vibration/tapping can be

provided to the skin at the same time (see Fig. 2, and see the first paragraph of page 3 of the translation).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the head portion of Mabuchi/Mabuchi '128/Fuhr to be enlarged to have room to receive a ring module that has a central opening to still allow the reciprocating unit to move relative to the ring module as taught by Lee so that the modified device can simultaneously provide light therapy for beneficial cosmetic effects to the skin (see the first paragraph of page 3 of the translation of Lee) together with the reciprocation.

The modified Mabuchi/Mabuchi '128/Fuhr/Lee device is silent regarding the module seat including a set of magnets configured to removably secure the therapy module.

Lin teaches a related cosmetic device (Fig. 1) comprising: a housing (holding unit 11, Fig. 1) that includes a handle portion (lower half of unit 11, Fig. 1), a head portion (upper half of unit 11, Fig. 1) and a module seat (notch 111, the annular rim above the notch, first magnetic attraction components 112, and first connection terminals 113 are considered the module seat, Fig. 1) defined on the head portion (upper half of unit 11, Fig. 1), wherein the module seat includes a set of magnets (first magnetic attraction components 112, Fig. 1) configured to removably secure a therapy module (connection part 13, cover body 15, and cosmetic assembly 17, collectively form a therapy module, Fig. 1; it is removably secured via magnetic attraction components parts 112 and 132, see Fig. 1 and see lines 10-15 of [0010]), wherein the therapy module includes a second set of magnets (second magnetic attraction components 132, Fig. 1) that are

magnetically attracted to the first set of magnets (see lines 20-29 of [0017]). Furthermore, it is noted that "[a] person of ordinary skill is also a person of ordinary creativity, not an automaton," and would be able to fit this teaching of two sets of magnets to detachably couple a module seat and a therapy module "like pieces of a puzzle" to obtain the expected benefit of providing a secure, but easily detachable electronic connection. See *KSR Int'l. Co. v. Teleflex Inc.,* 550 U.S. 398, 421 (2007).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the module seat and therapy module of Mabuchi/Mabuchi '128/Fuhr/Lee to each have a set of magnets that are magnetically attracted together as taught by Lin because this will allow the therapy module to be securely, but easily detachable so that it can be exchanged with other assemblies to meet the needs of different users (see lines 10-15 of [0010] of Lin).

13. Claims 20-21 are rejected under 35 U.S.C. 103 as being unpatentable over Lee et al. (KR 10-2020-0051098) in view of Lin (2015/0045702), Tammabattula (2020/0154874), and Mabuchi (4,513,737) as applied to claim 10 above, and further in view of Boersma et al. (2018/0295980).

Regarding claim 20, the modified Lee/Lin/Tammabattula/Mabuchi device is silent regarding the therapy module configured to provide the cold therapy at a temperature range between about 65 degrees Fahrenheit to about 78 degrees Fahrenheit.

Boersma teaches skin treatment device (Fig. 1, Fig. 3A) with a detachable therapy module ("treatment head may releasably be associated with the housing… to replace the treatment head with a new treatment head or another type of treatment head" see lines 8-11 of [0018]) configured to provide heat and cold therapy (see lines 1-

13 of [0031], the skin is heated to make sebum flowable to be removed, and then the skin is cooled) and the device is used to clean, exfoliate, and/or massage the skin of a user and remove sebum from the skin (see the last three lines of [0008]). The device includes a therapy module configured to provide heat therapy and cold therapy (via thermally conductive elements 310, 320, and surface 311, Fig. 3A) at a temperature range between about 65 degrees Fahrenheit to about 78 degrees Fahrenheit ("cooling may especially be done at a temperature selected from the range of 5-30 degrees Celsius" see lines 9-11 of [0031]) because the recently heated skin may benefit from the cooler element (see lines 11-13 of [0031]), such as helping the skin recover, relax, and make the skin feel less oily (see the last two sentences of [0012]). The therapy module of Boersma is configured to connect to electrical power in the main housing (see the positive and negative symbols connected to 320, Fig. 3A).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the therapy module of Lee/Lin/Tammabattula/Mabuchi to provide a removable therapy module configured to apply heat and cold therapy, including cooling between about 65 degrees Fahrenheit to about 78 degrees Fahrenheit as taught by Boersma so the therapy module can be selectively attached and the user's skin can be cleaned, exfoliated, and massaged with hot and cold therapy. This helps remove sebum from the skin (see lines 1-13 of [0031]), and then recover, relax, and make the skin feel less oily (see the last two sentences of [0012] of Boersma).

Regarding claim 21, the modified Lee/Lin/Tammabattula/Mabuchi device is silent regarding the therapy module configured to provide the heat therapy at a temperature range between about 95 degrees Fahrenheit to about 109 degrees Fahrenheit.

Boersma teaches skin treatment device (Fig. 1, Fig. 3A) with a detachable therapy module ("treatment head may releasably be associated with the housing... to replace the treatment head with a new treatment head or another type of treatment head" see lines 8-11 of [0018]) configured to provide heat and cold therapy (see lines 1-13 of [0031], the skin is heated to make sebum flowable to be removed, and then the skin is cooled) and the device is used to clean, exfoliate, and/or massage the skin of a user and remove sebum from the skin (see the last three lines of [0008]). The device includes a therapy module configured to provide heat therapy and cold therapy (via thermally conductive elements 310, 320, and surface 311, Fig. 3A) at a temperature range between about 95 degrees Fahrenheit to about 109 degrees Fahrenheit ("heated to a temperature selected from the range of 25-50 degrees Celsius, especially 34 to 50 degrees Celsius" see lines 1-3 of [0031]) because the heat allows the sebum to be more easily removed (see lines 3-5 of [0031] and the heated skin may benefit from the cooler element (see lines 11-13 of [0031]), such as helping the skin recover, relax, and make the skin feel less oily (see the last two sentences of [0012]). The therapy module of Boersma is configured to connect to electrical power in the main housing (see the positive and negative symbols connected to 320, Fig. 3A).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to modify the therapy module of Lee/Lin/Tammabattula/Mabuchi to provide a removable therapy module configured to

apply heat and cold therapy, including cooling between about 65 degrees Fahrenheit to about 78 degrees Fahrenheit as taught by Boersma so the therapy module can be selectively attached and the user's skin can be cleaned, exfoliated, and massaged with hot and cold therapy. This helps remove sebum from the skin (see lines 1-13 of [0031]), and then recover, relax, and make the skin feel less oily (see the last two sentences of [0012] of Boersma).

Allowable Subject Matter

14. Claim 4 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Double Patenting

15. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP § 2146 *et seq.* for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

15. Claims 1-4 and 7 are rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1 of U.S. Patent No. 11,331,244 in view of Mabuchi (4,513,737), Mabuchi (4,088,128) ("Mabuchi '128") and Fuhr (2014/0031866).

Claim 1 of U.S. Patent No. 11,331,244 discloses all of the features of claims 1-4 and 7 except for the reciprocation having a linear velocity between 0.06 m/s and 0.5

m/s, wherein the attachment member includes a first magnet, and a reciprocating attachment including a second magnet that is magnetically attracted to the first magnet to secure the reciprocating attachment on the attachment member. However, as demonstrated in the claim 1 rejection under 35. U.S.C. 103 above, the missing limitations are taught in the art and provide expected benefits. The magnetic connection taught by Mabuchi provides an advantageous and easy to operate coupling mechanism to allow a user to change the reciprocating attachment, and Mabuchi '128 and Fuhr disclose that the speed should be variable according to a user's preference, and that speeds such as 0.44 m/s are appropriate for reciprocating therapy. See the 103 rejection(s) above.

Response to Arguments

16. Applicant's arguments filed September 16, 2022, have been fully considered but they are not persuasive.

17. Regarding the argument that Mabuchi's magnet 43 is not coupled to a distal end of actuator 4 because the distal end of actuator 4 extends through coupling 14 (see the last paragraph of page 10 of the Remarks, through the first paragraph of page 11 of the Remarks), this argument is not persuasive. Based upon the amendments, the current claim 1 rejection has been updated and now the coupling (14) is considered the reciprocating shaft. Furthermore, the entire portion of shaft (4) shown in Fig. 18 may alternatively be considered "a distal end" under the broadest reasonable interpretation. In contrast, a proximal end of the shaft (4) is connected to bearing (16) and rod shaft (18, see Fig. 2 of Mabuchi).

18. Regarding the argument that Mabuchi does not teach or suggest that coupling (14) is a reciprocating shaft configured to reciprocate in response to activation of a motor (see the second paragraph of page 11 of the Remarks), this argument is not persuasive. The coupling (14) is an elongated, generally cylindrical member (see Figs. 18-19) that reciprocates together with the rod (4; they are "press-fitted" together, see col. 6, lines 9-11 and note that the Fig. 18 embodiment shows the coupling 14 contacting rod 4 and the flange 15 will be applying leftward force to the patter slide tube 10) to apply a force to the patter slide tube (10) in the leftward direction (see col. 3, lines 13-17).

19. Regarding the argument that it is not obvious to modify Mabuchi to move coupling 14 to the distal end of actuator 4 because it would not engage with resilient member 11 (see the third paragraph of page 11 of the Remarks), this argument is not persuasive because such a modification was not relied upon in the 103 rejection(s).

20. Regarding the argument that Mabuchi '128 and Fuhr fail to cure the deficiency of Mabuchi (see the penultimate paragraph of page 11 of the Remarks), this argument is not persuasive because Mabuchi discloses the alleged deficiency.

21. Regarding the argument that a person skilled in the art would not have been motivated to combine the velocity disclosed in Fuhr with the device of Mabuchi because Fuhr is a chiropractic device for adjusting musculoskeletal structures and Mabuchi is a beauty device for patting skin (see the last paragraph of page 11 of the Remarks, and the first and second paragraphs of page 12 of the Remarks), this argument is not persuasive. Mabuchi is a reciprocating device configured to pat skin and stimulate subcutaneous muscular tissues (see the last sentence of the Abstract), and specifically

provides a patter that is removable so it can be replaced with different assemblies that have a desired shape or size to meet a particular portion or purpose of treatment (see col. 1, lines 46-50, and col. 9, lines 20-24). Thus, Mabuchi contemplates using the reciprocating device being for different body portions and/or different treatment purposes. Furthermore, as modified by Mabuchi '128, the motor speed is freely adjustable by a velocity selecting knob (20, Mabuchi '128). Fuhr demonstrates that at least a portion of the claimed velocity range would provide expected results of being suitable for chiropractic purposes, and therefore the freely adjustable velocity setting knob of Mabuchi/Mabuchi '128 was modified to include velocity settings that would cover *at least* 0.44 m/s to 1.82 m/s as generally taught by Fuhr because these velocities are shown to be suitable in prior art reciprocating devices and different speed settings would be desirable for different uses and different patients.

Lastly, it is noted that the claim rejection additionally stated that where the general conditions of a claim are disclosed in the prior art (Mabuchi/Mabuchi '128 discloses a freely adjustable velocity knob for providing reciprocating or patting treatment to the skin), discovering the optimum or workable ranges (such as 0.06-0.5 m/s) involves only routine skill in the art. *In re Aller*, 105 USPQ 233. MPEP 2144.05. Lastly, it is noted that even at higher velocities such as 1.82 m/s, there will at least be moments during reciprocation where the velocity is between 0.06-0.5 m/s, because the velocity approaches zero when the periodic reciprocating movement reverses direction (see col. 3, lines 52-53 of Mabuchi).

22. Regarding the argument that Applicant has different reasons for selecting the linear velocity than Mabuchi/Fuhr (see the third paragraph of page 12 of the Remarks),

this argument is not persuasive. The fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). Here, Mabuchi/Mabuchi '128 already disclose that the velocity should be freely adjustable, and Fuhr teaches that certain velocities would be useful for chiropractic purposes. Fuhr does not need to provide a motivation related to securing magnets.

23. Regarding the argument(s) that claims 3 and 5-6 are not obvious over the applied references because they fail to cure alleged deficiencies of Mabuchi, Mabuchi '128, and Fuhr (see the first five paragraphs of page 13 of the Remarks), this argument is not persuasive for the same reasons discussed above.

24. Regarding the argument that Lee, Lin, and Tammabattula, alone or in combination do not disclose an attachment member coupled to a distal end of a reciprocating shaft, the attachment member comprising a magnet (see the last paragraph of page 13 of the Remarks, through the first two paragraphs of page 14 of the Remarks), this argument has been considered, but it is moot because the rejections of claims 8-12 now rely upon Mabuchi to teach these features.

25. Regarding the argument that Mabuchi '128 and Kang, alone or in combination, do not disclose an attachment member coupled to a distal end of a reciprocating shaft, the attachment member comprising a magnet (see the third through fifth paragraphs of page 14 of the Remarks), this argument has been considered, but it is moot because the rejection of claim 13 now relies upon Mabuchi to teach these features.

26. Regarding the argument(s) that claims 14-16 are not obvious over the applied references because they fail to cure alleged deficiencies of Mabuchi '128 and Kang (see the last two paragraphs of page 14 of the Remarks, through the first paragraph of page 15 of the Remarks), this argument is not persuasive for the same reasons discussed above.

27. Regarding the argument that Sakai does not disclose an attachment member coupled to a distal end of a reciprocating shaft, the attachment member comprising a first magnet (see the fourth and fifth paragraphs of page 15 of the Remarks), this argument is not persuasive. Sakai does disclose an attachment member (connection intermediary member 17, Fig. 1) coupled to the distal end of the reciprocating shaft (17 is coupled to the distal end of shaft 16, see Fig. 1). Furthermore, the feature of a first magnet is taught by Mabuchi in the current rejection(s).

28. Regarding the argument that Mabuchi, Mabuchi '128, and Fuhr, alone or in combination, do not disclose an attachment member coupled to a distal end of a reciprocating shaft, the attachment member comprising a first magnet (see the last two paragraphs of page 15 of the Remarks, through the first two paragraphs of page 16 of the Remarks), this argument is not persuasive for the same reasons already discussed above with respect to the claim 1 rejection.

Conclusion

29. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cho (2004/0260212) discloses a related skin care appliance with a magnetic connection mechanism. Geva et al. (2013/0213431) discloses a related cosmetic applicator with a circular therapy module that surrounds a treatment shaft.

Bosma et al. (2019/0290531) discloses a related thermal skin treatment device that provide heat therapy and cold therapy. Herbert (6,401,289) discloses a related skin cleaning device with a removable attachment. Yamazaki et al. (2012/0253246) discloses a related skin therapy device with a therapy module (electrode 11A, Fig. 1) and a push rod assembly operatively connected to a motor, wherein the push rod assembly comprises: a reciprocating shaft having a distal end and an attachment member coupled to the distal end of the reciprocating shaft; wherein the therapy module includes a central opening defined therein, and wherein the attachment member extends into the central opening (see Figs. 3-4).

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

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

31. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER E MILLER whose telephone number is (571)270-1473. The examiner can normally be reached Mon-Fri 10:00-6:30 (eastern).

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Justine Yu can be reached on 571-272-4835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/CHRISTOPHER E MILLER/
Examiner, Art Unit 3785

/JUSTINE R YU/
Supervisory Patent Examiner, Art Unit 3785

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/705,300	03/26/2022	Jason Wersland	5015.0690006	2416

186370 7590 11/25/2022

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
(Therabody)
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER	
MILLER, CHRISTOPHER E	

ART UNIT	PAPER NUMBER
3785	

NOTIFICATION DATE	DELIVERY MODE
11/25/2022	ELECTRONIC

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

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

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

e-office@sternekessler.com

Applicant-Initiated Interview Summary	**Application No.** 17/705,300	**Applicant(s)** Wersland et al.		
	Examiner CHRISTOPHER E MILLER	**Art Unit** 3785	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 2

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
CHRISTOPHER E MILLER	Examiner	Video Conference
Jason Mirabito	Attorney	
Jason Honeyman	Attorney	

Date of Interview: 17 November 2022

Issues Discussed:

35 U.S.C. 112

The Examiner noted that the amendment reciting "uncooled skin" is potentially new matter, because such a negative limitation requires support in the originally filed disclosure. Applicants argued that one of ordinary skill in the art would know the instant invention uses uncooled skin because there is never mention of cooling skin. The Examiner noted that the mere absence of a positive recitation is not basis for an exclusion according to MPEP 2173.05(i). Applicants argued that the specification refers to optionally providing heating or cooling, and that this recitation in the alternative thus provides support for "uncooled" skin. No agreement was reached at this time.

35 U.S.C. 103

Mr. Mirabito and Mr. Honeyman discussed the Torbati and Kreindel references in the 35 U.S.C. 103 rejections, with respect to the amendment filed October 26, 2022. They argued that Torbati and Kreindel are directed towards removing fat using high energy such as ultrasound, in contrast to the instant invention which is used to tighten the skin. Additionally, Torbati critically uses ultrasound to create cavitation for bubbles to break down fat, which is different from RF energy and they argued it would be dangerous to modify Torbati to use both RF and ultrasound energy. Furthermore, Applicants argued Kreindel lacks electrical stimulation and cools the skin, which is different from the instant invention which is on uncooled skin and uses RF energy for heating the external surface to temperatures between 40-45 Celsius.

The Examiner stated that the amendment filed October 26, 2022, would require further consideration and/or search. The Examiner agreed that if it is determined that any amendments would place the application into condition for allowance, then the Examiner will call Mr. Mirabito.

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PGR2025-00013

Applicant-Initiated Interview Summary	**Application No.** 17/705,300	**Applicant(s)** Wersland et al.		
	Examiner CHRISTOPHER E MILLER	**Art Unit** 3785	**AIA (First Inventor to File) Status** Yes	**Page** **2 of 2**

/CHRISTOPHER E MILLER/ Examiner, Art Unit 3785	/JUSTINE R YU/ Supervisory Patent Examiner, Art Unit 3785

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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/705,300	03/26/2022	Jason Wersland	5015.0690006	2416

186370 7590 11/29/2022

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
(Therabody)
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER	
MILLER, CHRISTOPHER E	

ART UNIT	PAPER NUMBER
3785	

NOTIFICATION DATE	DELIVERY MODE
11/29/2022	ELECTRONIC

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR/ PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
17/705,300	03/26/2022	Wersland et al.	5015.0690006

		EXAMINER	
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. (Therabody) 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005		CHRISTOPHER E MILLER	
		ART UNIT	PAPER
		3785	20221122

DATE MAILED: _____

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

Commissioner for Patents

Please disregard the Examiner Interview Summary Record (PTOL - 413) mailed November 25, 2022, as it was sent in error. Thanks.

/CHRISTOPHER E MILLER/ Examiner, Art Unit 3785	/JUSTINE R YU/ Supervisory Patent Examiner, Art Unit 3785

PTO-90C (Rev.04-03)

Amendment Under 37 C.F.R. § 1.116
Expedited Procedure – Art Unit 3785

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Jason WERSLAND	Confirmation No.: 2416
Applicant: Therabody, Inc.	Art Unit: 3785
Application No.: 17/705,300	Examiner: MILLER, Christopher E.
Filing Date: March 26, 2022	Atty. Docket: 5015.0690006

Title: **VIBRATING THERAPY SYSTEM AND DEVICE**

Amendment and Reply Under 37 C.F.R. § 1.116

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Mail Stop AF

Commissioner:

In reply to the Office Action dated **October 21, 2022**, Applicant submits the following Amendment and Remarks.

It is not believed that extensions of time are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any additional fees required to continue prosecution or appeal of this application (including issue fee, fees for net addition of claims or forwarding to appeal) are hereby authorized to be charged to our Deposit Account No. 19-0036.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/705,300	Filing Date 03/26/2022	☐ 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	01/17/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 4	= 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".	/Ruby Johnson/
*** 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.**

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	17/705,300
Filing Date	03/26/2022
First Named Inventor	Jason WERSLAND
Art Unit	3785
Examiner Name	Christopher E. MILLER
Attorney Docket Number	5015.0690006

ENCLOSURES (*Check all that apply*)

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☑ Amendment/Reply
  - ☑ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☑ Other Enclosure(s) (please Identify below):

  Certification and Request for Consideration Under the After Final Consideration Pilot Program 2.0

Remarks

The Office may charge any fee deficiency for any submission made with this transmittal to Deposit Account 19-0036.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Sterne, Kessler, Goldstein & Fox P.L.L.C.		
Signature	/Dohm Chankong/		
Printed name	Dohm Chankong		
Date	January 17, 2023	Reg. No.	70,524

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/705,300	**01/17/2023 06:05:06 PM ET**	**5015.0690006**

Title of Invention

VIBRATING THERAPY SYSTEM AND DEVICE

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2416	FILED BY	Kim Perry
PATENT CENTER #	61448822	FILING DATE	03/26/2022
CUSTOMER #	186370	FIRST NAMED INVENTOR	Jason Wersland
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Yangbeini Wang

Documents

TOTAL DOCUMENTS: 5

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
2023-01-17-AFCP-5015-0690006.PDF		2	After Final Consideration Program Request	221 KB
2023-01-17-Amendment-Reply-116-5015-0690006.PDF		15	-	293 KB
2023-01-17-Amendment-Reply-116-5015-0690006-A.NE.pdf	(1-1)	1	Response After Final Action	128 KB
2023-01-17-Amendment-Reply-116-5015-0690006-CLM.pdf	(2-8)	7	Claims	86 KB

2023-01-17-Amendment-Reply-116-5015-0690006-REM.pdf	(9-15)	7	Applicant Arguments/Remarks Made in an Amendment	243 KB
2023-01-17-Transmittal-Form-5015-0690006.PDF		1	Transmittal Letter	312 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
2023-01-17-AFCP-5015-0690006.PDF	293FC4051E271081505BDF143654EA594B706D7ADDEA81E7F957DFE6B98EFBF2F90C5F95C900551035300 9D2D02F642B953502C63B79CC23B985AD986314B99D
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2023-01-17-Amendment-Reply-116-5015-0690006-REM.pdf	0B1AF8621EBC58CAA6042336F24F4CB213F77C53EAF123539B492A29D4B48CA947E2717B9F7AD189C5A49B7330CAA201F25FC5C7EC57E03C7E1643EB4618245B
2023-01-17-Transmittal-Form-5015-0690006.PDF	79FB478F79C5F19E452BF2045AACA007EAA6FAB956A68AA69E5F1411AB7DD1B24AB4185DADE121E8BE86CD3ECF930D6B7B73E18D868232E73F287FFABBB16D35

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for 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.

Remarks

Reconsideration of this Application is respectfully requested.

Upon entry of the foregoing amendment, claims 1–10 and 12–21 are pending in the application, with claims 1, 8, 13, and 17 being the independent claims. Claims 1, 5, 6, 8, 13, 14, and 17 are amended. These changes introduce no new matter, and their entry is respectfully requested.

Based on the above amendment and the following remarks, Applicant respectfully requests that the Office reconsider all outstanding objections and rejections and that they be withdrawn.

Claim Objections

Claim 14 is objected to for informalities. Office Action, 2.

Claim 14 is amended and now recites "the distal most end." Accordingly, Applicant respectfully requests that the objection of claim 14 be withdrawn.

Rejections under 35 U.S.C. § 103

Claims 1, 2, and 7 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over U.S. Patent No. 4,513,737 to Mabuchi ("Mabuchi") in view of U.S. Patent No. 4,088,128 to Mabuchi ("Mabuchi '128") and U.S. Patent Application Publication No. 2014/0031866 to Fuhr ("Fuhr"). Office Action, 3–7.

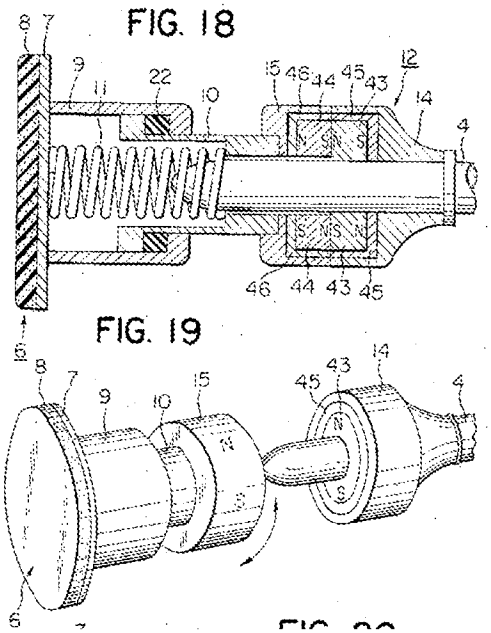
Independent claim 1

Without agreeing to the merits of the rejections, and solely to expedite the prosecution, claim 1 is amended to recite, "a reciprocating shaft having a *distal most end*; and an attachment member coupled to the *distal most end* of the reciprocating shaft, the attachment member comprising a first magnet." The applied references do not disclose at least these features of claim 1.

The Office relies on Mabuchi for allegedly disclosing a vibration device. *Id.* at 3-4. Mabuchi discloses a beauty treatment device having a motor 20 and an actuator 4 caused to reciprocate by the motor 20. Mabuchi, 2:39-52. In one embodiment, as shown in FIGS. 18 and 19 below, Mabuchi discloses a coupling 14 press-fitted to actuator 4, and coupling 14 has a magnet 43 for attaching a

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magnet 44 of a patter assembly 6. *Id.* at 8:3-31. The Office contends that coupling 14, instead of actuator 4, corresponds to a reciprocating shaft, and magnet 43 is coupled to a distal end of coupling 14. Office Action, 3 and 34. Alternatively, the Office contends that the entire portion of actuator 4 shown in FIG. 18 may be considered "a distal end." *Id.* at 34.



Mabuchi, FIGS. 18 and 19.

I. Coupling 14 of Mabuchi is not a "reciprocating shaft."

Mabuchi does not teach or suggest that coupling 14, as shown in FIGS. 18 and 19, is a *reciprocating shaft*. Coupling 14 merely connects to flange 15, which holds the patter assembly. Mabuchi, 8:11-18. Only actuator 4 is caused to reciprocate by the rotation of motor 20. Mabuchi, 2:50-52 ("as the rotating disc 17 rotates, the actuator 4 is caused to reciprocate within an actuator bearing 16 via the rod 3."); 3:30-33 ("the rotation of the motor 20 is transmitted to the actuator 4 in the form of reciprocating motion."). There is no disclosure in Mabuchi of the coupling 14 reciprocating. Accordingly, coupling 14 cannot be interpreted as a "reciprocating shaft" under the broadest reasonable interpretation standard.

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II. Mabuchi does not disclose an attachment member coupled to a distal most end of a reciprocating shaft.

To the extent that the Office considers the entire portion of actuator 4 shown in FIG. 18 "a distal end" of a reciprocating shaft, claim 1 is now amended and recites "a distal most end." The distal most end of actuator 4 shown in FIG. 18 is the tip portion of actuator 4 that extends into slide tube 10 of patter assembly 6, and this tip portion does not have an attachment member coupled to it.

For the reasons discussed above, Mabuchi does not disclose an attachment member coupled to a *distal most end* of a reciprocating shaft, the attachment member comprising a first magnet. Mabuchi '128 and Fuhr both fail to cure the deficiency of Mabuchi in this respect, as they also do not disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet.

Accordingly, claim 1 and dependent claims 2 and 7 are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 1, 2, and 7 be withdrawn.

Claim 3 is rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Mabuchi in view of Mabuchi '128 and Fuhr as applied to claim 2 above, and further in view of KR Patent Application Publication No. 10-2020-0051098 to Lee et al. ("Lee"). Office Action, 7–9.

Claim 3 depends from claim 1 and are patentable based at least on its dependency and for its separately recited features. Lee also fails to disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet, and thus fails to cure the deficiencies of Mabuchi, Mabuchi '128, and Fuhr.

Accordingly, claim 3 is not obvious over the applied references. Applicant respectfully requests that the § 103 rejection of claim 3 be withdrawn.

Claims 5 and 6 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Mabuchi in view of Mabuchi '128 and Fuhr as applied to claim 1 above, and further in view of U.S. Patent Application Publication No. 2016/0192814 to Kang et al. ("Kang"). Office Action, 9–11.

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

Claims 5 and 6 depend from claim 1 and are patentable based at least on their dependency and for their separately recited features. Kang also fails to disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet, and thus fails to cure the deficiencies of Mabuchi, Mabuchi '128, and Fuhr.

Accordingly, claims 5 and 6 are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 5 and 6 be withdrawn.

Claims 8–12 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Lee in view of U.S. Patent Application Publication No. 2015/0045702 to Lin et al. ("Lin"), U.S. Patent Application Publication No. 2020/0154874 to Tammabattula ("Tammabattula"), and Mabuchi. Office Action, 12–18.

Independent claim 8

Without agreeing to the merits of the rejections, and solely to expedite the prosecution, claim 8 is similarly amended to recite, "a reciprocating shaft having a *distal most end*; and an attachment member coupled to the *distal most end* of the reciprocating shaft, the attachment member comprising a magnet." Accordingly, the same arguments made with respect to claim 1 applies equally here, and Mabuchi does not disclose an attachment member coupled to a *distal most end* of a reciprocating shaft, the attachment member comprising a first magnet.

Lee, Lin, and Tammabattula fail to cure the deficiency of Mabuchi in this respect, as they also do not disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet.

Accordingly, claim 8 and dependent claims 9–12 are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 8–12 be withdrawn.

Claims 13–16 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Mabuchi in view of Mabuchi '128 and Kang. Office Action, 18–22.

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Independent claim 13

Without agreeing to the merits of the rejections, and solely to expedite the prosecution, claim 13 is similarly amended to recite, "a reciprocating shaft having a *distal most end*; and an attachment member coupled to the *distal most end* of the reciprocating shaft, the attachment member comprising a magnet." Accordingly, the same arguments made with respect to claim 1 applies equally here, and Mabuchi does not disclose an attachment member coupled to a *distal most end* of a reciprocating shaft, the attachment member comprising a first magnet.

Mabuchi '128 and Kang fail to cure the deficiency of Mabuchi in this respect, as they also do not disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet.

Accordingly, claim 13 and dependent claim 14–16 are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 13–16 be withdrawn.

Claims 17 and 18 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over U.S. Patent Application Publication No. 2008/0234611 to Sakai et al. ("Sakai") in view of Mabuchi and Lin. Office Action, 22–27.

Independent claim 17

Without agreeing to the merits of the rejections, and solely to expedite the prosecution, claim 17 is similarly amended to recite, "a reciprocating shaft having a *distal most end*; and an attachment member coupled to the *distal most end* of the reciprocating shaft, the attachment member comprising a magnet." Accordingly, the same arguments made with respect to claim 1 applies equally here, and Mabuchi does not disclose an attachment member coupled to a *distal most end* of a reciprocating shaft, the attachment member comprising a first magnet.

Sakai and Lin fail to cure the deficiency of Mabuchi in this respect, as they also do not disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet.

Accordingly, claim 17 and dependent claim 18 are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 17 and 18 be withdrawn.

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Claim 19 is rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Mabuchi in view of Mabuchi '128 and Fuhr as applied to claim 1 above, and further in view of Lee and Lin. Office Action, 27–29.

Claim 19 depends from claim 1 and is patentable based at least on its dependency and for its separately recited features. Lee and Lin also fail to disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet, and thus fail to cure the deficiencies of Mabuchi, Mabuchi '128, and Fuhr.

Accordingly, claim 19 is not obvious over the applied references. Applicant respectfully requests that the § 103 rejection of claim 19 be withdrawn.

Claims 20 and 21 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Lee in view of Lin, Tammabattula, and Mabuchi as applied to claim 10 above, and further in view of U.S. Patent Application Publication No. 2018/0295980 to Boersma et al. ("Boersma"). Office Action, 29–32.

Claims 20 and 21 depend from claim 8 and are patentable based at least on their dependency and for their separately recited features. Boersma also fails to disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet, and thus fails to cure the deficiencies of Lee, Lin, Tammabattula, and Mabuchi.

Accordingly, claims 20 and 21 are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 20 and 21 be withdrawn.

Double Patenting Rejection

Claims 1–4 and 7 are rejected on the grounds of non-statutory obviousness type double patenting as allegedly being unpatentable over claim 1 of U.S. Patent No. 11,331,244 in view of Mabuchi, Mabuchi '128, and Fuhr. Office Action, 32–34.

As discussed above, Mabuchi, Mabuchi '128, and Fuhr, alone or in combination, do not disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment

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member comprising a first magnet. Claim 1 of U.S. Patent No. 11,331,244 also fails to cure the deficiencies of Mabuchi, Mabuchi '128, and Fuhr.

Accordingly, applicant respectfully requests that the non-statutory double patenting rejections of claims 1–4 and 7 be withdrawn.

Conclusion

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Office reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicant believes that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Office believes, for any reason, that personal communication will expedite prosecution of this application, the Office is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

/Dohm Chankong/

Dohm Chankong
Attorney for Applicant
Registration No. 70,524

Date: January 17, 2023

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Amendments to the Claims

1. (Currently Amended) A vibration therapy device, comprising:

a housing that includes a handle portion and a head portion;

an electrical source;

a motor positioned in the housing;

a switch for activating the motor;

a push rod assembly operatively connected to the motor, wherein the push rod assembly comprises:

a reciprocating shaft having a distal most end; and

an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising a first magnet,

wherein the reciprocating shaft is configured to reciprocate in response to activation of the motor, such that the attachment member has a linear velocity between 0.06 m/s and 0.5 m/s; and

a reciprocating attachment removably received on the attachment member, wherein the reciprocating attachment includes a second magnet that is magnetically attracted to the first magnet to secure the reciprocating attachment on the attachment member.

2. (Previously Presented) The vibration therapy device of claim 1, wherein the reciprocating attachment includes an attachment member recess defined therein,

wherein the attachment member is received in the attachment member recess,

wherein the attachment member defines an attachment member diameter and the attachment member recess defines an attachment member recess diameter,

wherein the attachment member diameter is smaller than the attachment member recess diameter, and

wherein the first and second magnets secure the reciprocating attachment on the attachment member during reciprocation.

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3. (Previously Presented) The vibration therapy device of claim 2, wherein the head portion comprises a module seat,

wherein the vibration therapy device further comprises a ring module removably secured to the module seat,

wherein the ring module includes a central opening that defines a central opening diameter,

wherein the reciprocating attachment defines a reciprocating attachment diameter, and

wherein the central opening diameter is larger than the reciprocating attachment diameter, such that the reciprocating attachment is configured to reciprocate within and relative to the ring module.

4. (Previously Presented) The vibration therapy device of claim 3, wherein the ring module is in electrical communication with the electrical source,

wherein the module seat includes a first electrical connector, and

wherein the ring module includes a second electrical connector in electrical communication with the first electrical connector.

5. (Currently Amended) The vibration therapy device of claim 1, further comprising a flexible sleeve that includes a proximal end and a distal most end,

wherein the flexible sleeve at least partially surrounds the reciprocating shaft, and

wherein the distal most end of the flexible sleeve is secured to the attachment member and the proximal end of the flexible sleeve is secured to the housing.

6. (Currently Amended) The vibration therapy device of claim 5, wherein the reciprocating shaft includes an opening in the distal most end thereof,

wherein the attachment member includes a shaft that is received in the opening in the reciprocating shaft, and

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wherein the distal most end of the flexible sleeve is secured between the distal most end of the reciprocating shaft and the attachment member.

7. (Previously Presented) The vibration therapy device of claim 1, wherein the reciprocating shaft is configured to reciprocate in response to activation of the motor et-such that the attachment member has a linear velocity between 0.11 m/s and 0.4 m/s.

8. (Currently Amended) A therapy device, comprising:

a housing that includes a handle portion, a head portion, and a module seat defined on the head portion, wherein the module seat includes a first set of magnets, and wherein the module seat includes a first securement protrusion extending therefrom and includes a first securement recess defined therein;

an electrical source;

a therapy module removably secured to the module seat,

wherein the therapy module includes a second set of magnets that are magnetically attracted to the first set of magnets,

wherein the therapy module includes a second securement protrusion extending therefrom and includes a second securement recess defined therein,

wherein the first securement protrusion is received in the second securement recess, and

wherein the second securement protrusion is received in the first securement recess;

a motor positioned in the housing;

a switch for activating the motor; and

a push rod assembly operatively connected to the motor, wherein the push rod assembly comprises:

a reciprocating shaft having a distal most end; and

an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising a magnet,

wherein the therapy module includes a central opening defined therein, and wherein the attachment member extends into the central opening.

9. (Previously Presented) The therapy device of claim 8, wherein one of the first securement protrusion and the second securement recess includes female electrical contacts and the other of the first securement protrusion and second securement recess includes male electrical contacts, and wherein connection of the male electrical contacts and female electrical contacts provides electrical communication between the electrical source and the therapy module.

10. (Previously Presented) The therapy device of claim 9, wherein the therapy module provides at least one of cold therapy, heat therapy, LED light therapy, microcurrent therapy, photobiomodulation therapy, radio frequency therapy, cleansing therapy, or ultrasound therapy.

11. (Canceled)

12. (Previously Presented) The therapy device of claim 9, wherein the male electrical contacts include four prongs, and wherein two of the prongs provide electrical communication and two of the prongs provide data communication.

13. (Currently Amended) A vibration therapy device, comprising:

a housing that includes a handle portion and a head portion;

an electrical source;

a motor positioned in the housing;

a switch for activating the motor;

a push rod assembly operatively connected to the motor, wherein the push rod assembly comprises:

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a reciprocating shaft having a distal most end; and

an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising a magnet; and

a flexible sleeve that includes a proximal end and a distal most end, wherein the flexible sleeve at least partially surrounds the reciprocating shaft, wherein the distal most end of the flexible sleeve is secured to the attachment member and the proximal end of the flexible sleeve is secured to the housing.

14. (Currently Amended) The vibration therapy device of claim 13, wherein the reciprocating shaft includes an opening in [[a]] the distal most end thereof,

wherein the attachment member includes a shaft that is received in the opening in the reciprocating shaft, and

wherein the distal most end of the flexible sleeve is secured between the distal most end of the reciprocating shaft and the attachment member.

15. (Previously Presented) The vibration therapy device of claim 14, wherein the housing includes a protrusive portion, and wherein the proximal end of the flexible sleeve is secured by the protrusive portion.

16. (Previously Presented) The vibration therapy device of claim 15, wherein the flexible sleeve includes an annular ridge extending therefrom that is received in a groove in the housing.

17. (Currently Amended) A vibration therapy device, comprising:

a housing that includes a handle portion, a head portion and a module seat defined on the head portion, wherein the module seat includes a first set of magnets;

an electrical source;

motor positioned in the housing;

a switch for activating the motor;

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a push rod assembly operatively connected to the motor, wherein the push rod assembly comprises:

a reciprocating shaft having a distal most end; and

an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising a first magnet; and

a cleansing attachment removably received on the attachment member,

wherein the cleansing attachment includes a second magnet that is magnetically attracted to the first magnet to secure the cleansing attachment on the attachment member,

wherein the cleansing attachment includes a second set of magnets that are magnetically attracted to the first set of magnets to removably secure the cleansing attachment to the module seat,

wherein the cleansing attachment includes a central section, and

wherein when the attachment member reciprocates, the central section flexes.

18. (Previously Presented) The vibration therapy device of claim 17, wherein the module seat includes a first securement protrusion extending therefrom and includes a first securement recess defined therein,

wherein the cleansing attachment includes a second securement protrusion extending therefrom and includes a second securement recess defined therein,

wherein the first securement protrusion is received in the second securement recess, and

wherein the second securement protrusion is received in the first securement recess.

19. (Previously Presented) The vibration therapy device of claim 1, wherein the head portion comprises a module seat configured to removably receive a therapy module,

wherein the module seat surrounds the attachment member, and

wherein the module seat includes a set of magnets configured to removably secure the therapy module.

20. (Previously Presented) The therapy device of claim 10, wherein the therapy module is configured to provide the cold therapy at a temperature range between about 65 degrees Fahrenheit to about 78 degrees Fahrenheit.

21. (Previously Presented) The therapy device of claim 10, wherein the therapy module is configured to provide the heat therapy at a temperature range between about 95 degrees Fahrenheit to about 109 degrees Fahrenheit.

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Amendment Under 37 C.F.R. § 1.116
Expedited Procedure – Art Unit 3785

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Jason WERSLAND	Confirmation No.: 2416
Applicant: Therabody, Inc.	Art Unit: 3785
Application No.: 17/705,300	Examiner: MILLER, Christopher E.
Filing Date: March 26, 2022	Atty. Docket: 5015.0690006

Title: **VIBRATING THERAPY SYSTEM AND DEVICE**

Amendment and Reply Under 37 C.F.R. § 1.116

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Mail Stop AF

Commissioner:

In reply to the Office Action dated **October 21, 2022**, Applicant submits the following Amendment and Remarks.

It is not believed that extensions of time are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any additional fees required to continue prosecution or appeal of this application (including issue fee, fees for net addition of claims or forwarding to appeal) are hereby authorized to be charged to our Deposit Account No. 19-0036.

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

PTO/SB/434 (05-13)

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

Practitioner Docket No.:	Application No.:	Filing Date:
5015.0690006	17/705,300	March 26, 2022
First Named Inventor:	**Title:**	
Jason WERSLAND	VIBRATING THERAPY SYSTEM AND DEVICE	

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 Office's electronic filing system (EFS-Web).
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
/Dohm Chankong/	January 17, 2023
Name (Print/Typed)	**Practitioner Registration No.**
Dohm Chankong	70,524

***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.

DO NOT ENTER: /C.E.M/

Amendment Under 37 C.F.R. § 1.116
Expedited Procedure – Art Unit 3785

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Jason WERSLAND	Confirmation No.: 2416
Applicant: Therabody, Inc.	Art Unit: 3785
Application No.: 17/705,300	Examiner: MILLER, Christopher E.
Filing Date: March 26, 2022	Atty. Docket: 5015.0690006

Title: **VIBRATING THERAPY SYSTEM AND DEVICE**

Amendment and Reply Under 37 C.F.R. § 1.116

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Mail Stop AF

Commissioner:

In reply to the Office Action dated **October 21, 2022**, Applicant submits the following Amendment and Remarks.

It is not believed that extensions of time are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any additional fees required to continue prosecution or appeal of this application (including issue fee, fees for net addition of claims or forwarding to appeal) are hereby authorized to be charged to our Deposit Account No. 19-0036.

AFCP 2.0 Decision

Application No.	Applicant(s)	
17/705,300	Wersland et al.	
Examiner	**Art Unit**	**AIA (FITF) Status**
CHRISTOPHER E MILLER	3785	Yes

This is in response to the After Final Consideration Pilot request filed 17 January 2023.

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.

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PGR2025-00013

Notice of References Cited	Application/Control No. 17/705,300	Applicant(s)/Patent Under Reexamination Wersland et al.	
	Examiner CHRISTOPHER E MILLER	Art Unit 3785	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20190015294-A1	01-2019	Nazarian; Benjamin	A61H15/00	1/1
	B					
	C					
	D					
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FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Applicant-Initiated Interview Summary	**Application No.** 17/705,300	**Applicant(s)** Wersland et al.		
	Examiner CHRISTOPHER E MILLER	**Art Unit** 3785	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 2

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
CHRISTOPHER E MILLER	Examiner	Telephonic
Dohm Chankong	Attorney	
Yangbeini Wang	Attorney	

Date of Interview: 27 January 2023

Issues Discussed:

Proposed Amendment(s)

The Examiner discussed the proposed amendments reciting a reciprocating shaft having a distal "most" end and an attachment member coupled to the distal "most" end of the reciprocating shaft. The Examiner noted that Mabuchi (4,513,737) would still read on this language because the coupling (14, Figs. 18-19) does reciprocate, as seen in Figs. 2-4 with the connecting mechanism (12) moving back and forth based upon the position of the crankshaft (19). Additionally, the Examiner noted that Nazarian et al. (2019/0015294) was found during the AFCP search, and Nazarian has a reciprocating shaft (102, Fig. 4) that has an attachment member comprising a magnet on its distal most end (magnet at 104, Fig. 4; see the penultimate sentence of [0048]. The magnet is the attachment member) to removably attach to an attachment including a second magnet (magnet 18, Fig. 4).

No agreements were reached at this time.

/CHRISTOPHER E MILLER/ Examiner, Art Unit 3785	

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

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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.

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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/705,300	03/26/2022	Jason Wersland	5015.0690006	2416

186370 7590 02/07/2023

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
(Therabody)
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER	
MILLER, CHRISTOPHER E	

ART UNIT	PAPER NUMBER
3785	

NOTIFICATION DATE	DELIVERY MODE
02/07/2023	ELECTRONIC

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

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

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

e-office@sternekessler.com

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 17/705,300	**Applicant(s)** Wersland et al.	
	Examiner CHRISTOPHER E MILLER	**Art Unit** 3785	**AIA (FITF) Status** Yes

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

THE REPLY FILED 17 January 2023 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

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

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

NOTICE OF APPEAL

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

AMENDMENTS

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

AFFIDAVIT OR OTHER EVIDENCE

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

REQUEST FOR RECONSIDERATION/OTHER

12. ☑ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
13. ☐ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). _____
14. ☑ Other: PTO-2323, PTO-413, PTO-892.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:
    Claim(s) allowed:_____.
    Claim(s) objected to:_____.
    Claim(s) rejected:1-10 and 12-21.
    Claim(s) withdrawn from consideration:_____.

/CHRISTOPHER E MILLER/ Examiner, Art Unit 3785	/JUSTINE R YU/ Supervisory Patent Examiner, Art Unit 3785

Continuation of 3. NOTE: The amendments to the independent claims 1, 8, 13, and 17 now require the attachment member to be coupled to the distal "most" end of the reciprocating shaft. This requires further consideration and/or search, and does not simplify issues for appeal because potentially a new ground of rejection would be required.

Continuation of REQUEST FOR RECONSIDERATION/OTHER 12. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: Regarding the argument that Mabuchi's coupling 14 is not a reciprocating shaft because there is no disclosure of coupling 14 reciprocating (see the last paragraph of page 10 of the Remarks), this argument is not persuasive. As seen in Fig. 1 and Fig. 18, Mabuchi's coupling 14 is part of the connecting mechanism 12. Figures 2-4 of Mabuchi show that this entire connecting mechanism (including 14) reciprocates back (see Fig. 2) and forth (see Figs. 3-4) based upon the position of the crankshaft (crankshaft 19, Figs. 2-4). Additionally, col. 8, lines 15-18 state that the patter assembly depicted in Fig. 18 is operated as described referring to Figs. 1 through 5. Thus, the embodiment of Figs. 18-19 of Mabuchi does have coupling 14 reciprocate back and forth.

Regarding the argument that to the extent that the entire portion of actuator 4 shown in Fig. 18 is being considered "a distal end", the amendment of "a distal most end" would overcome Mabuchi (see the first two paragraphs of page 11 of the Remarks), this argument is not persuasive. The claim rejections rely upon coupling 14 as the reciprocating shaft. Furthermore, it is noted that during the AFCP search, the Nazarian et al. (2019/0015294) reference was found, which has a reciprocating shaft (102, Fig. 4) that has an attachment member comprising a magnet on its distal most end (magnet at 104, Fig. 4; see the penultimate sentence of [0048]. The magnet is the attachment member) to removably attach to an attachment including a second magnet (magnet 18, Fig. 4).

Regarding the argument that Lee fails to cure the deficiencies of Mabuchi, Mabuchi '128, and Fuhr (see the fourth and fifth paragraphs of page 11 of the Remarks), this argument is not persuasive because the arguments with respect to Mabuchi were not persuasive as discussed above.

Regarding the argument that Kang fails to cure the deficiencies of Mabuchi, Mabuchi '128, and Fuhr (see the first two paragraphs of page 12 of the Remarks), this argument is not persuasive because the arguments with respect to Mabuchi were not persuasive as discussed above.

The arguments pertaining to independent claim 8, independent claim 13, and independent claim 17 are " the same arguments made with respect to claim 1" (see the fourth paragraph of page 12 of the Remarks, through the fifth paragraph of page 13 of the Remarks) are not persuasive for the same reasons as discussed above.

Regarding the arguments that the remaining references fail to cure the deficiencies of Mabuchi (see the fifth paragraph of page 12 of the Remarks, through the fifth paragraph of page 14 of the Remarks), this argument is not persuasive because the arguments with respect to Mabuchi were not persuasive as discussed above.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Jason WERSLAND	Confirmation No.: 2416
Applicant: Therabody, Inc.	Art Unit: 3785
Application No.: 17/705,300	Examiner: MILLER, Christopher E.
Filing Date: March 26, 2022	Atty. Docket: 5015.0690006

Title: **VIBRATING THERAPY SYSTEM AND DEVICE**

Assertion of Small Entity Status under 37 C.F.R. § 1.27(c)

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

This application is entitled to small entity status and the same is respectfully asserted.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

/Dohm Chankong/

Dohm Chankong
Attorney for Applicant
Registration No. 70,524

Date: February 21, 2023

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/705,300	**02/21/2023 05:24:14 PM ET**	**5015.0690006**

Title of Invention

VIBRATING THERAPY SYSTEM AND DEVICE

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2416	FILED BY	Kim Perry
PATENT CENTER #	61626022	FILING DATE	03/26/2022
CUSTOMER #	186370	FIRST NAMED INVENTOR	Jason Wersland
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Yangbeini Wang

Documents

TOTAL DOCUMENTS: 7

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
2023-02-21-Assertion-Small-Entity-5015-0690006.pdf	1	Assertion of entitlement to small entity status	98 KB
2023-02-21-EOT-5015-0690006.PDF	1	Extension of Time	318 KB
2023-02-21-RCE-5015-0690006.PDF	3	Request for Continued Examination (RCE)	1318 KB
2023-02-21-Transmittal-Form-5015-0690006.PDF	1	Transmittal Letter	339 KB
2023-02-21-Amendment-Reply-114-5015-0690006.pdf	15	-	208 KB

2023-02-21-Amendment-Reply-114-5015-0690006-AMSB.pdf	(1-1)	1	Amendment Submitted/Entered with Filing of Continued Prosecution Application (CPA)/Request for Continued Examination(RCE)	143 KB
2023-02-21-Amendment-Reply-114-5015-0690006-CLM.pdf	(2-8)	7	Claims	104 KB
2023-02-21-Amendment-Reply-114-5015-0690006-REM.pdf	(9-15)	7	Applicant Arguments/Remarks Made in an Amendment	128 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
2023-02-21-Assertion-Small-Entity-5015-0690006.pdf	2B74C4A6F35E034AC3FC02171C288DDF00760F763701B54C410FE4AB8BCC47CE4E61C455404E20CEC6AB6E1B52F33698B2EAE083E85D93869603F079226B1152
2023-02-21-EOT-5015-0690006.PDF	F726031C999E80453AB1D088E09C7AE833A254429BC19061C75974CA8B12D4DB2E6E4CB976096B07D36091580CFDF787AB3840867961CE2208FC975BA97F4F0B
2023-02-21-RCE-5015-0690006.PDF	9C518E2319E922490A358CEAF2A8CC8A75CD313E284B2D21B2F98A8D02AADB4D1FFAB5325BC0258AB14EF1F5D3E4EAE6D2EE3D94237566BA88A057643378A32F
2023-02-21-Transmittal-Form-5015-0690006.PDF	F9FF5C86778C5A383343D7C5736FC901DECBB290BC6CE664E5982161E44B9F991A2DD339F2ECC9A302B81B2C4C09A1FB1ED8112B89101AA2B4ADEBD7A4FC4643
2023-02-21-Amendment-Reply-114-5015-0690006.pdf	E931D3271D84E5E1CCD6E4C2CAE440638888E763CA2AE7BFF63278C2AEF4B22AA9E56237D891C166C73580C2B5E83EC9079B5E8AD3C7F1EF4C19559939369B95

2023-02-21-Amendment-Reply-114-5015-0690006-AMSB.pdf	DF5B06CBEF88017C8BCDEBA4F35E691121E86BFE953FE204C1FEBD6459CDC8E4A17377C82B09BE9156899396005D462FFA9B8FD1277CA501827461984B0BD22
2023-02-21-Amendment-Reply-114-5015-0690006-CLM.pdf	0FF0B2D510CBC45E41E8E37963982C4D138E1E6B0852FE9C3CECAAF507237F5C86B2B1D79483730A26E4C7E94BDF1FABCD80D886E41BAC838C6C36C8B7E9FDCB
2023-02-21-Amendment-Reply-114-5015-0690006-REM.pdf	EFCF9D1A054F2FBA97E9601296FDBDD1EF82F2C992BCCEFA362DB4754C2C1107179FD98C9635C1BE0835D5BAE28BC583C443DEB06DFA1DBE5F14A673DC332939

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 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.

Doc Code: TRAN.LET

Document Description: Transmittal Letter

PTO/SB/21 (07-09)
Approved for use through 11/30/2020. OMB 0651-0031
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	17/705,300
Filing Date	03/26/2022
First Named Inventor	Jason WERSLAND
Art Unit	3785
Examiner Name	MILLER, Christopher E.
Attorney Docket Number	5015.0690006

Total Number of Pages in This Submission

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
- ☑ Fee Attached
- ☑ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☑ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☑ Other Enclosure(s) (please Identify below):

Request for Continued Examination Transmittal (PTO/SB/30EFS); Assertion of Small Entity Status under 37 C.F.R. § 1.27(c)

Remarks

Online Credit Card Authorization for $632.00 to cover:

$544.00 - RCE Fee (1st request); $88.00 - 1 Month Extension of Time Fee.

The Office may charge any fee deficiency for any submission made with this transmittal to Deposit Account 19-0036.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Sterne, Kessler, Goldstein & Fox P.L.L.C.		
Signature	/Dohm Chankong/		
Printed name	Dohm Chankong		
Date	February 21, 2023	Reg. No.	70,524

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, 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.

Remarks

Reconsideration of this Application is respectfully requested.

Upon entry of the foregoing amendment, claims 1–10 and 12–21 are pending in the application. Claims 1, 8, 13, and 17 are independent claims. Claims 1, 5, 6, 8, 13, 14, and 17 are amended. These changes introduce no new matter, and their entry is respectfully requested.

Based on the above amendment and the following remarks, Applicant respectfully requests that the Office reconsider all outstanding objections and rejections and that they be withdrawn.

Statement of the Substance of the Interview

Applicant thanks Examiner Miller for his assistance in the Interview conducted via telephone on January 27, 2023 with Applicant's representatives. During the course of the interview, Examiner Miller and Applicant's representatives discussed the claimed inventions, the cited references, and arguments and amendments made in the Amendment and Reply filed on January 17, 2023. No agreement was reached.

Claim Objections

Claim 14 is objected to for informalities. Office Action, 2.

Claim 14 is amended and now recites "the distal most end." Accordingly, Applicant respectfully requests that the objection of claim 14 be withdrawn.

Rejections under 35 U.S.C. § 103

Claims 1, 2, and 7 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over U.S. Patent No. 4,513,737 to Mabuchi ("Mabuchi") in view of U.S. Patent No. 4,088,128 to Mabuchi ("Mabuchi '128") and U.S. Patent Application Publication No. 2014/0031866 to Fuhr ("Fuhr"). Office Action, 3–7.

Independent claim 1

Without agreeing to the merits of the rejections, and solely to expedite the prosecution, claim 1 is amended to recite "a reciprocating shaft having a *distal most end* and *an opening* defined

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at the distal most end" and "an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising *a shaft* extending into the opening of the reciprocating shaft and *a magnet seat* having a first magnet received therein." The applied references do not disclose at least these features of claim 1.

The Office relies on coupling 14 of Mabuchi for allegedly disclosing a reciprocating shaft Advisory Action, ¶ 3. As previously argued in Amendment and Reply filed on January 17, coupling 14 of Mabuchi cannot be interpreted as a "reciprocating shaft," and Mabuchi does not disclose an attachment member coupled to a distal most end of a reciprocating shaft.

Additionally, Mabuchi also does not disclose "an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising *a shaft* extending into the opening of the reciprocating shaft and *a magnet seat* having a first magnet received therein." As seen in FIG. 18 of Mabuchi, coupling 14 (allegedly a reciprocating shaft) has an opening, and magnet 43 is directly disposed within the opening of coupling 14. But Mabuchi does not disclose the claimed attachment member.

The Office further cites U.S. Patent Application Publication No. 2019/0015294 to Nazarian ("Nazarian") for allegedly disclosing a reciprocating shaft having an attachment member comprising a magnet on its distal most end. Advisory Action, ¶ 3. However, Nazarian does not disclose "an opening defined at the distal most end" or "an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising *a shaft* extending into the opening of the reciprocating shaft." As seen in FIG. 4 of Nazarian, shaft 102 (allegedly a reciprocating shaft) does not have an opening, and attachment member 20 does not have a shaft extending into shaft 102. Instead, a recess 24 is defined in attachment member 20, and shaft 102 is received in recess 24. Nazarian, ¶ [0048].

Accordingly, claim 1 and its dependent claims are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 1, 2, and 7 be withdrawn.

Claim 3 is rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Mabuchi in view of Mabuchi '128 and Fuhr as applied to claim 2 above, and further in view of KR Patent Application Publication No. 10-2020-0051098 to Lee et al. ("Lee"). Office Action, 7–9.

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Claim 3 depends from claim 1 and are patentable based at least on its dependency and for its separately recited features. Lee also fails to disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet, and thus fails to cure the deficiencies of Mabuchi, Mabuchi '128, and Fuhr.

Accordingly, claim 3 is not obvious over the applied references. Applicant respectfully requests that the § 103 rejection of claim 3 be withdrawn.

Claims 5 and 6 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Mabuchi in view of Mabuchi '128 and Fuhr as applied to claim 1 above, and further in view of U.S. Patent Application Publication No. 2016/0192814 to Kang et al. ("Kang"). Office Action, 9–11.

Claims 5 and 6 depend from claim 1 and are patentable based at least on their dependency and for their separately recited features. Kang also fails to disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet, and thus fails to cure the deficiencies of Mabuchi, Mabuchi '128, and Fuhr.

Accordingly, claims 5 and 6 are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 5 and 6 be withdrawn.

Claims 8–12 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Lee in view of U.S. Patent Application Publication No. 2015/0045702 to Lin et al. ("Lin"), U.S. Patent Application Publication No. 2020/0154874 to Tammabattula ("Tammabattula"), and Mabuchi. Office Action, 12–18.

Independent claim 8

Without agreeing to the merits of the rejections, and solely to expedite the prosecution, claim 8 is similarly amended to recite "a reciprocating shaft having a *distal most end* and *an opening* defined at the distal most end" and "an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising *a shaft* extending into the opening of the reciprocating shaft and *a magnet seat* having a magnet received therein."

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As discussed with respect to claim 1, Mabuchi and Nazarian, alone or in combination, do not disclose the claimed reciprocating shaft or the claimed attachment member. Lee, Lin, and Tammabattula fail to cure the deficiency of Mabuchi and Nazarian in this respect.

Accordingly, claim 8 and its dependent claims are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 8–12 be withdrawn.

Claims 13–16 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Mabuchi in view of Mabuchi '128 and Kang. Office Action, 18–22.

Independent claim 13

Without agreeing to the merits of the rejections, and solely to expedite the prosecution, claim 13 is similarly amended to recite "a reciprocating shaft having *a distal most* end *and an opening* defined at the distal most end" and "an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising *a shaft* extending into the opening of the reciprocating shaft and *a magnet seat* having a magnet received therein."

As discussed with respect to claim 1, Mabuchi and Nazarian, alone or in combination, do not disclose the claimed reciprocating shaft or the claimed attachment member. Mabuchi '128 and Kang fail to cure the deficiency of Mabuchi and Nazarian in this respect.

Accordingly, claim 13 and its dependent claim are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 13–16 be withdrawn.

Claims 17 and 18 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over U.S. Patent Application Publication No. 2008/0234611 to Sakai et al. ("Sakai") in view of Mabuchi and Lin. Office Action, 22–27.

Independent claim 17

Without agreeing to the merits of the rejections, and solely to expedite the prosecution, claim 17 is similarly amended to recite "a reciprocating shaft having *a distal most* end *and an opening* defined at the distal most end" and "an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising *a shaft* extending into the opening of the reciprocating shaft and *a magnet seat* having a first magnet received therein."

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As discussed with respect to claim 1, Mabuchi and Nazarian, alone or in combination, do not disclose the claimed reciprocating shaft or the claimed attachment member. Sakai and Lin fail to cure the deficiency of Mabuchi and Nazarian in this respect.

Accordingly, claim 17 and dependent claim 18 are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 17 and 18 be withdrawn.

Claim 19 is rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Mabuchi in view of Mabuchi '128 and Fuhr as applied to claim 1 above, and further in view of Lee and Lin. Office Action, 27–29.

Claim 19 depends from claim 1 and is patentable based at least on its dependency and for its separately recited features. Lee and Lin also fail to disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet, and thus fail to cure the deficiencies of Mabuchi, Mabuchi '128, and Fuhr.

Accordingly, claim 19 is not obvious over the applied references. Applicant respectfully requests that the § 103 rejection of claim 19 be withdrawn.

Claims 20 and 21 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Lee in view of Lin, Tammabattula, and Mabuchi as applied to claim 10 above, and further in view of U.S. Patent Application Publication No. 2018/0295980 to Boersma et al. ("Boersma"). Office Action, 29–32.

Claims 20 and 21 depend from claim 8 and are patentable based at least on their dependency and for their separately recited features. Boersma also fails to disclose an attachment member coupled to a distal most end of a reciprocating shaft, the attachment member comprising a first magnet, and thus fails to cure the deficiencies of Lee, Lin, Tammabattula, and Mabuchi.

Accordingly, claims 20 and 21 are not obvious over the applied references. Applicant respectfully requests that the § 103 rejections of claims 20 and 21 be withdrawn.

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Double Patenting Rejection

Claims 1–4 and 7 are rejected on the grounds of non-statutory obviousness type double patenting as allegedly being unpatentable over claim 1 of U.S. Patent No. 11,331,244 in view of Mabuchi, Mabuchi '128, and Fuhr. Office Action, 32–34.

As discussed above, the applied references s, alone or in combination, do not disclose "a reciprocating shaft having a *distal most end* and *an opening* defined at the distal most end" or "an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising *a shaft* extending into the opening of the reciprocating shaft and *a magnet seat* having a first magnet received therein." Claim 1 of U.S. Patent No. 11,331,244 also fails to cure the deficiencies of the applied references in this respect.

Accordingly, applicant respectfully requests that the non-statutory double patenting rejections of claims 1–4 and 7 be withdrawn.

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Conclusion

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Office reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicant believes that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Office believes, for any reason, that personal communication will expedite prosecution of this application, the Office is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

/Dohm Chankong/

Dohm Chankong
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Date: February 21, 2023

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Amendments to the Claims

1. (Currently Amended) A vibration therapy device, comprising:

a housing that includes a handle portion and a head portion;

an electrical source;

a motor positioned in the housing;

a switch for activating the motor;

a push rod assembly operatively connected to the motor, wherein the push rod assembly comprises:

a reciprocating shaft having a distal most end and an opening defined at the distal most end; and

an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising a shaft extending into the opening of the reciprocating shaft and a magnet seat having a first magnet received therein,

wherein the reciprocating shaft is configured to reciprocate in response to activation of the motor, such that the attachment member has a linear velocity between 0.06 m/s and 0.5 m/s; and

a reciprocating attachment removably received on the attachment member, wherein the reciprocating attachment includes a second magnet that is magnetically attracted to the first magnet to secure the reciprocating attachment on the attachment member.

2. (Previously Presented) The vibration therapy device of claim 1, wherein the reciprocating attachment includes an attachment member recess defined therein,

wherein the attachment member is received in the attachment member recess,

wherein the attachment member defines an attachment member diameter and the attachment member recess defines an attachment member recess diameter,

wherein the attachment member diameter is smaller than the attachment member recess diameter, and

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wherein the first and second magnets secure the reciprocating attachment on the attachment member during reciprocation.

3. (Previously Presented) The vibration therapy device of claim 2, wherein the head portion comprises a module seat,

wherein the vibration therapy device further comprises a ring module removably secured to the module seat,

wherein the ring module includes a central opening that defines a central opening diameter,

wherein the reciprocating attachment defines a reciprocating attachment diameter, and

wherein the central opening diameter is larger than the reciprocating attachment diameter, such that the reciprocating attachment is configured to reciprocate within and relative to the ring module.

4. (Previously Presented) The vibration therapy device of claim 3, wherein the ring module is in electrical communication with the electrical source,

wherein the module seat includes a first electrical connector, and

wherein the ring module includes a second electrical connector in electrical communication with the first electrical connector.

5. (Currently Amended) The vibration therapy device of claim 1, further comprising a flexible sleeve that includes a proximal end and a distal most end,

wherein the flexible sleeve at least partially surrounds the reciprocating shaft, and

wherein the distal most end of the flexible sleeve is secured to the attachment member and the proximal end of the flexible sleeve is secured to the housing.

6. (Currently Amended) The vibration therapy device of claim 5, wherein the reciprocating shaft includes an opening in the distal most end thereof,

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wherein the attachment member includes a shaft that is received in the opening in the reciprocating shaft, and

wherein the distal most end of the flexible sleeve is secured between the distal most end of the reciprocating shaft and the attachment member.

7. (Previously Presented) The vibration therapy device of claim 1, wherein the reciprocating shaft is configured to reciprocate in response to activation of the motor et-such that the attachment member has a linear velocity between 0.11 m/s and 0.4 m/s.

8. (Currently Amended) A therapy device, comprising:

a housing that includes a handle portion, a head portion, and a module seat defined on the head portion, wherein the module seat includes a first set of magnets, and wherein the module seat includes a first securement protrusion extending therefrom and includes a first securement recess defined therein;

an electrical source;

a therapy module removably secured to the module seat,

wherein the therapy module includes a second set of magnets that are magnetically attracted to the first set of magnets,

wherein the therapy module includes a second securement protrusion extending therefrom and includes a second securement recess defined therein,

wherein the first securement protrusion is received in the second securement recess, and

wherein the second securement protrusion is received in the first securement recess;

a motor positioned in the housing;

a switch for activating the motor; and

a push rod assembly operatively connected to the motor, wherein the push rod assembly comprises:

a reciprocating shaft having a distal most end and an opening defined at the distal most end; and

an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising a shaft extending into the opening of the reciprocating shaft and a magnet seat having a magnet received therein,

wherein the therapy module includes a central opening defined therein, and wherein the attachment member extends into the central opening.

9. (Previously Presented) The therapy device of claim 8, wherein one of the first securement protrusion and the second securement recess includes female electrical contacts and the other of the first securement protrusion and second securement recess includes male electrical contacts, and wherein connection of the male electrical contacts and female electrical contacts provides electrical communication between the electrical source and the therapy module.

10. (Previously Presented) The therapy device of claim 9, wherein the therapy module provides at least one of cold therapy, heat therapy, LED light therapy, microcurrent therapy, photobiomodulation therapy, radio frequency therapy, cleansing therapy, or ultrasound therapy.

11. (Canceled)

12. (Previously Presented) The therapy device of claim 9, wherein the male electrical contacts include four prongs, and wherein two of the prongs provide electrical communication and two of the prongs provide data communication.

13. (Currently Amended) A vibration therapy device, comprising:

a housing that includes a handle portion and a head portion;

an electrical source;

a motor positioned in the housing;

a switch for activating the motor;

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a push rod assembly operatively connected to the motor, wherein the push rod assembly comprises:

a reciprocating shaft having a distal most end and an opening defined at the distal most end; and

an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising a shaft extending into the opening of the reciprocating shaft and a magnet seat having a magnet received therein; and

a flexible sleeve that includes a proximal end and a distal most end, wherein the flexible sleeve at least partially surrounds the reciprocating shaft, wherein the distal most end of the flexible sleeve is secured to the attachment member and the proximal end of the flexible sleeve is secured to the housing.

14. (Currently Amended) The vibration therapy device of claim 13, wherein the reciprocating shaft includes an opening in [[a]] the distal most end thereof,

wherein the attachment member includes a shaft that is received in the opening in the reciprocating shaft, and

wherein the distal most end of the flexible sleeve is secured between the distal most end of the reciprocating shaft and the attachment member.

15. (Previously Presented) The vibration therapy device of claim 14, wherein the housing includes a protrusive portion, and wherein the proximal end of the flexible sleeve is secured by the protrusive portion.

16. (Previously Presented) The vibration therapy device of claim 15, wherein the flexible sleeve includes an annular ridge extending therefrom that is received in a groove in the housing.

17. (Currently Amended) A vibration therapy device, comprising:

a housing that includes a handle portion, a head portion and a module seat defined on the head portion, wherein the module seat includes a first set of magnets;

an electrical source;

motor positioned in the housing;

a switch for activating the motor;

a push rod assembly operatively connected to the motor, wherein the push rod assembly comprises:

a reciprocating shaft having a distal most end and an opening defined at the distal most end; and

an attachment member coupled to the distal most end of the reciprocating shaft, the attachment member comprising a shaft extending into the opening of the reciprocating shaft and a magnet seat having a first magnet received therein; and

a cleansing attachment removably received on the attachment member,

wherein the cleansing attachment includes a second magnet that is magnetically attracted to the first magnet to secure the cleansing attachment on the attachment member,

wherein the cleansing attachment includes a second set of magnets that are magnetically attracted to the first set of magnets to removably secure the cleansing attachment to the module seat,

wherein the cleansing attachment includes a central section, and

wherein when the attachment member reciprocates, the central section flexes.

18. (Previously Presented) The vibration therapy device of claim 17, wherein the module seat includes a first securement protrusion extending therefrom and includes a first securement recess defined therein,

wherein the cleansing attachment includes a second securement protrusion extending therefrom and includes a second securement recess defined therein,

wherein the first securement protrusion is received in the second securement recess, and

wherein the second securement protrusion is received in the first securement recess.

19. (Previously Presented) The vibration therapy device of claim 1, wherein the head portion comprises a module seat configured to removably receive a therapy module,

wherein the module seat surrounds the attachment member, and

wherein the module seat includes a set of magnets configured to removably secure the therapy module.

20. (Previously Presented) The therapy device of claim 10, wherein the therapy module is configured to provide the cold therapy at a temperature range between about 65 degrees Fahrenheit to about 78 degrees Fahrenheit.

21. (Previously Presented) The therapy device of claim 10, wherein the therapy module is configured to provide the heat therapy at a temperature range between about 95 degrees Fahrenheit to about 109 degrees Fahrenheit.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Jason WERSLAND	Confirmation No.: 2416
Applicant: Therabody, Inc.	Art Unit: 3785
Application No.: 17/705,300	Examiner: MILLER, Christopher E.
Filing Date: March 26, 2022	Atty. Docket: 5015.0690006

Title: **VIBRATING THERAPY SYSTEM AND DEVICE**

Amendment and Reply Under 37 C.F.R. § 1.114

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Mail Stop RCE

Commissioner:

Filed concurrently herewith in the captioned application is a Request for Continued Examination (RCE). Prior to examination of the RCE on the merits, please amend the application as directed herein. In reply to the Office Action dated October 21, 2022 and the Advisory Action dated February 7, 2023, and further to Applicant's Amendment and Reply under 37 C.F.R. § 1.116 filed on January 17, 2023, Applicant submits the following amendment and remarks.

If additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any additional fees required to continue prosecution or appeal of this application (including issue fee, fees for net addition of claims or forwarding to appeal) are hereby authorized to be charged to our Deposit Account No. 19-0036.

PTO/AIA/22 (12-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)

Docket Number (Optional): 5015.0690006

Application Number: 17/705,300

Filed: March 26, 2022

For: VIBRATING THERAPY SYSTEM AND DEVICE

Art Unit: 3785

Examiner: MILLER, Christopher E.

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	Micro Entity Fee	
☑ One month (37 CFR 1.17(a)(1))	$220	$88	$44	$ 88.00
☐ Two months (37 CFR 1.17(a)(2))	$640	$256	$128	$
☐ Three months (37 CFR 1.17(a)(3))	$1,480	$592	$296	$
☐ Four months (37 CFR 1.17(a)(4))	$2,320	$928	$464	$
☐ Five months (37 CFR 1.17(a)(5))	$3,160	$1,264	$632	$

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☑ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 19-0036.

☑ Payment made via USPTO's patent electronic filing system (Patent Center or EFS-Web).

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ applicant.

☑ attorney or agent of record. Registration number 70,524.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Dohm Chankong/
Signature

February 21, 2023
Date

Dohm Chankong
Typed or printed name

(202) 371-2600
Telephone Number

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

☐ * Total of _____ forms are submitted.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0031. Public burden for this form is estimated to average 6 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, send to: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/705,300	02/21/2023 05:24:14 PM ET	5015.0690006

Title of Invention

VIBRATING THERAPY SYSTEM AND DEVICE

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2416	FILED BY	Kim Perry
PATENT CENTER #	61626022	AUTHORIZED BY	Yangbeini Wang
CUSTOMER #	186370	FILING DATE	03/26/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Jason Wersland

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 1005	E20232KH26369771	Kim Perry

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2251	EXTENSION FOR RESPONSE WITHIN FIRST MONTH	88.00	1	88.00
2801	REQUEST FOR CONTINUED EXAMINATION (RCE) - 1ST REQUEST (SEE 37 CFR 1.114)	544.00	1	544.00
			TOTAL AMOUNT:	$632.00

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 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.

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

PTO/SB/30EFS (02-18)
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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	17/705,300	Filing Date	2022-03-26	Docket Number (if applicable)	5015.0690006	Art Unit	3785
First Named Inventor	Jason WERSLAND			Examiner Name	MILLER, Christopher E.		

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

SUBMISSION REQUIRED UNDER 37 CFR 1.114

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

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

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

☒ Enclosed

- ☒ Amendment/Reply
- ☐ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

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

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 190036

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

X Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Signature of Registered U.S. Patent Practitioner			
Signature	/Dohm Chankong/	Date (YYYY-MM-DD)	2023-02-21
Name	Dohm Chankong	Registration Number	70524

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

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

Privacy Act Statement

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

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

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

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

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

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

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

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

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

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

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

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	0	(17/361966).APP.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/19 03:10 PM
L2	80	jason.in. near2 wersland.in.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 03:10 PM
L3	75	benjamin.in. near2 nazarian.in.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 03:11 PM
L4	60	jaime.in. near2 solana.in.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 03:11 PM
L5	34	eduardo.in. near2 merino.in.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 03:11 PM
L6	29	bill.in. near2 webb.in.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 03:11 PM
L7	34	alex.in. near2 zhu.in.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 03:11 PM
L8	149	L2 L3 L4 L5 L6 L7	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 03:11 PM
L9	37	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$).did. or	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/19 03:13 PM

		(US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$).did.					
L10	94	theragun	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 03:14 PM
L11	73	L10 not L9	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 03:14 PM
L12	49	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/19 03:15 PM

		10470970-$).did.					
L14	871	a61h7/003.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 08:39 PM
L15	984	a61h23/00.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 08:40 PM
L16	326	a61h15/0085.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 08:40 PM
L17	1662	a61h2201/0153.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 08:40 PM
L18	3444	L14 L15 L16 L17	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 08:40 PM
L19	624	L18 and (percuss$4 reciprocat$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/19 08:41 PM
L20	871	a61h7/003.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 01:48 PM
L21	984	a61h23/00.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 01:48 PM
L22	326	a61h15/0085.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 01:48 PM
L23	1662	a61h2201/0153.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 01:48 PM
L24	3444	L20 L21 L22 L23	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 01:48 PM
L25	655	L24 and (percuss$4 hammer$3 reciprocat$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 01:48 PM
L28	57	("10327981" | "1545027" | "1657765" | "1660821" | "20030009116" | "20040254507" | "20060155220" | "20060282025" | "20070270727" | "20090306560" | "20110224588" | "20120067164" | "20130261516" | "20140358045" | "20150005682" | "20150150758" | "20160367425" | "20170042754" | "20170304145" | "20170326021" | "20180200141" | "20190175434" | "2078159" | "3169521" | "3494353" | "3993052" | "4669452" | "5117815" | "5193528" | "7125390" | "7435232" | "8372111" | "9532918" | "D222570" | "D301617" | "D373197"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 01:51 PM

		| "D388175" | "D407498" | "D456909" | "D484248" | "D530020" | "D627897" | "D649657" | "D657065" | "D666734" | "D698935" | "D708755" | "D818599" | "D820466" | "D826418").PN. OR ("10959908").URPN.					
L29	10	("10314762"|"20150005682"|"20160367425"|"20180200141"|"20180263845"|"20190015294"|"20190136889"|"6241027"|"6682496"|"7273159").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 01:53 PM
L30	154	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 02:06 PM

		20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-					

		20020082536-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-					

		1339179-$).did.					
L31	464	a61h23/006.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 02:08 PM
L32	400	L31 not L30	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 02:08 PM
L33	28	("20050075591" | "20050131461" | "20090309313" | "20140101872" | "20160017905" | "20160263732" | "20160311091" | "20170233063" | "20180050440" | "2179594" | "2391671" | "2475861" | "3053559" | "5103809" | "6006631" | "6245031" | "7470081" | "7740249" | "8479616" | "8695461" | "8864143" | "9744600" | "9981366").PN. OR ("10428850").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 02:10 PM
L34	183	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 02:15 PM

		20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-					

		20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-					

		6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$).did.					
L35	38	("20060100558"|"20110040235"|"20110200381"|"20160184173"|"20160206087"|"4655232"|"20190117447"|"20190133213"|"20170189670"|"20180295980"|"7695207"|"20140221880"|"20160183671"|"4858600"|"20130281893"|"20040249322"|"20110220634"|"20180352934"|"3699952"|"20150182290"|"20090222072"|"20140194900"|"20150333609"|"20040024438"|"20140276255"|"20150297393"|"20160331106"|"20070206986"|"20090163984"|"20160184162"|"20040186541"|"20120150268"|"1772501"|"20040147	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 02:15 PM

		984"|"20130085556"|"20140261380"|"20160238040").PN.					
L36	200	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/20 02:17 PM

		US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or						

		US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-					

		4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$).did.					
L37	6	(("20130060176") or ("20200086137") or ("20140378555") or ("20150305969") or ("20190254922") or ("20190155210")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/27 11:38 AM
L38	204	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/27 11:41 AM

		US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or						

		US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or						

		US-20130060176-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-					

		4858600-$ or US-1772501-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$).did.					
L39	25	("20050075149" | "20060058714" | "20060253051" | "20070123808" | "20080119913" | "20080243039" | "20090177125" | "20090312691" | "20100049177" | "20100121419" | "20100210993" | "20100292746" | "20110098781" | "20110106067" | "20110184499" | "6026828" | "6443915" | "7384405" | "7748070").PN. OR ("10252051").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 04:38 PM
L40	40	("2183726"|"20090287195"|"20120121309"|"8375485"|"20100069898"|"20070260295"|"20070206986"|"20080172045"|"20090234423"|"20090088824"|"5358503"|"20110092863"|"20090048557"|"20110106067"|"20100312314"|"1228669"|"20080154162"|"20120209357"|"20050207148"|"20090048557"|"20110040235"|"20040000316"|"20030009158"|"20060287616"|"20080014011"|"6010264"|"6911010"|"7866840"|"20050135867"|"20090262516"|"5363045"|"7014639"|"5176130"|"5698866"|"20060287696"|"7896908"|"20110091265"|"20130144364"|"6221095").P	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 08:25 PM

		N.					
L41	62	("20130046212"|"20140114116"|"20150150599"|"20080214968"|"20110143286"|"20100081858"|"20060253051"|"20090005631"|"20120209357"|"20140128780"|"20150045702"|"5382222"|"5632720"|"6461377"|"20040030370"|"20060047330"|"20090088824"|"20100121419"|"20110144410"|"6746473"|"20040106842"|"20050131497"|"20070179333"|"20080172045"|"7803104"|"20070185553"|"20140088337"|"20070027411"|"20110040235"|"6979300"|"20050015030"|"20070073198"|"20070073366"|"20080262394"|"20160158568"|"20020115903"|"20070083074"|"8936542"|"20040260210"|"20100049177"|"20110133872"|"20140194668"|"20090048557"|"20090270779"|"20090287195"|"20140100410"|"5782858"|"20080246573"|"20100179456"|"6126589"|"6123657"|"20050070977"|"20090234423"|"20110106067"|"8257242"|"20050045189"|"20110032960"|"20130030506"|"6001055"|"6544164"|"6558310"|"9126034").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 08:41 PM
L42	338	a61h15/02.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:03 PM
L43	41681	a61h$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:42 PM
L44	1495	L43 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet) with (ring annular circular head)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:43 PM
L45	676	L43 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet) with (ring	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:47 PM

		annular circular)					
L46	821	L43 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet) with (ring annular circular circle circumferen$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:47 PM
L47	663	a61n1/328.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:56 PM
L48	45	L47 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet) with (ring annular circular circle circumferen$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/28 11:56 PM
L49	39	("10314762" | "10357425" | "10492984" | "10561574" | "10702448" | "20060293711" | "20090270915" | "20140031866" | "20150005682" | "20150107383" | "20150182415" | "20160354277" | "20180008512" | "20180168913" | "20180200141" | "20180263845" | "20190209424" | "20190254921" | "20200261307" | "20200261310" | "20200276079" | "20200289365" | "20200330321" | "20200352820" | "20200352821" | "20200405574" | "4088128" | "4513737" | "4549535" | "4726430" | "4790296" | "4841955" | "5656017" | "6228042" | "6616621" | "6682496" | "8826547" | "9889066").PN. OR ("10993874").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 12:09 AM
L50	319	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 12:12 AM

		US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or					

		US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or						

		US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or						

		US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-					

		10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-5363045-$ or US-5358503-$ or US-5176130-$ or US-					

		2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$).did.					
L51	3	((16/258283) or (14/758347)).APP.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/29 01:47 PM
L52	622	(US-20200237085-$ or US-20150182290-$ or US-20160192814-$ or US-20150202114-$ or US-20150182246-$ or US-20130281894-$ or US-20120109041-$ or US-20100145242-$ or US-20200038673-$ or US-20180168318-$ or US-20160184175-$ or US-20160339219-$ or US-20160339218-$ or US-20160184177-$ or US-20160184176-$ or US-20150182078-$ or US-20180360203-$ or US-20180295980-$ or US-20160184162-$ or US-20200253811-$ or US-20200085684-$ or US-20150182415-$ or US-20140194900-$ or US-20190142691-$ or US-20190060159-$ or US-20180193219-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 01:50 PM

		$).did. or (US-20170172834-$ or US-20160058651-$ or US-20160331106-$ or US-20160074641-$ or US-20080306417-$ or US-20150297393-$ or US-20150305923-$ or US-20140276255-$ or US-20130085556-$ or US-20120165708-$ or US-20110040235-$ or US-20070179414-$ or US-20060211961-$ or US-20050107724-$ or US-20200315904-$ or US-20200222276-$ or US-20160213558-$ or US-20200170399-$ or US-20200154874-$ or US-20200038530-$ or US-20190191937-$ or US-20170332850-$ or US-20180361437-$ or US-20180140813-$ or US-20170367543-$ or US-20170367471-$ or US-20170360648-$).did. or (US-20170238686-$ or US-20170224098-$ or US-20170172837-$ or US-20170150851-$ or US-20150360014-$ or US-20160183743-$ or US-20150305969-$ or US-20140202493-$ or US-20150224020-$ or US-20150173998-$ or US-20150164733-$ or US-20150141884-$ or US-20140330289-$ or US-20140276281-$ or US-20030165550-$ or US-20060058714-$ or US-20060135319-$ or US-20040147984-$ or US-20200093945-$ or US-20190008718-$ or US-20180185236-$ or US-20180015299-$ or US-20160331308-$ or US-20170135894-$ or US-20160113836-$ or US-20160030279-$ or US-20150272774-$).did. or (US-20150150745-$ or US-20150119771-$ or US-					

		20140221737-$ or US-20120065556-$ or US-20090163984-$ or US-20080014011-$ or US-20070206986-$ or US-20060155225-$ or US-20060129072-$ or US-20060100558-$ or US-20050209537-$ or US-20050203445-$ or US-20050059909-$ or US-20020072693-$ or US-20030149381-$ or US-20030125648-$ or US-20020169398-$ or US-20170056685-$ or US-20160120375-$ or US-20160045081-$ or US-20150359324-$ or US-20150189980-$ or US-20150165179-$ or US-20150150754-$ or US-20120136289-$ or US-20090198159-$ or US-20090048557-$).did. or (US-20060122631-$ or US-20040171970-$ or US-20150173996-$ or US-20100198119-$ or US-20090177125-$ or US-20050277950-$ or US-20040015139-$ or US-20190126061-$ or US-20170367761-$ or US-20170035649-$ or US-20150265457-$ or US-20140128780-$ or US-20130197405-$ or US-20120209363-$ or US-20120209154-$ or US-20110009783-$ or US-20090088824-$ or US-20050049526-$ or US-20030009116-$ or US-20090222072-$ or US-20060258962-$ or US-20030014096-$ or US-20020086204-$ or US-20130085421-$ or US-20100274162-$ or US-20090270779-$ or US-20090043293-$).did. or (US-20040091663-$ or US-20030120185-$ or US-20030116452-$ or US-20130231594-$ or US-20130172792-$ or US-					

		20130012848-$ or US-20120265108-$ or US-20120172771-$ or US-20070287938-$ or US-20060235341-$ or US-20060060184-$ or US-20150057579-$ or US-20120265106-$ or US-20070129654-$ or US-20050085749-$ or US-20030100936-$ or US-20200100936-$ or US-20200069936-$ or US-20190290531-$ or US-20180214340-$ or US-20170189670-$ or US-20170181924-$ or US-20160074275-$ or US-20140309662-$ or US-20110270140-$ or US-20100087762-$ or US-20100056964-$).did. or (US-20080195001-$ or US-20070255187-$ or US-20070239086-$ or US-20070191745-$ or US-20040249322-$ or US-20040143199-$ or US-20040087881-$ or US-20040082983-$ or US-20210045521-$ or US-20200237604-$ or US-20060175909-$ or US-20200187635-$ or US-20200000294-$ or US-20200000293-$ or US-20170150810-$ or US-20180098615-$ or US-20180031090-$ or US-20180031089-$ or US-20170194849-$ or US-20170194848-$ or US-20160183670-$ or US-20160190902-$ or US-20160183671-$ or US-20160095413-$ or US-20160037902-$ or US-20150333609-$ or US-20150174387-$).did. or (US-20150065927-$ or US-20140367131-$ or US-20140305458-$ or US-20140096786-$ or US-20140088522-$ or US-20080262397-$ or US-20200411161-$ or US-20200405047-$ or US-					

		20200352317-$ or US-20200323337-$ or US-20190101170-$ or US-20200093252-$ or US-20180169682-$ or US-20200037747-$ or US-20200037746-$ or US-20200037745-$ or US-20190298036-$ or US-20190098976-$ or US-20190098975-$ or US-20190098974-$ or US-20190029411-$ or US-20190001503-$ or US-20180288160-$ or US-20180280233-$ or US-20180279762-$ or US-20180242711-$ or US-20180092449-$).did. or (US-20180042361-$ or US-20170326020-$ or US-20170189286-$ or US-20170189227-$ or US-20170188695-$ or US-20170119144-$ or US-20170014299-$ or US-20160324373-$ or US-20160206087-$ or US-20160184171-$ or US-20160015150-$ or US-20150265825-$ or US-20140366288-$ or US-20080138138-$ or US-20080255484-$ or US-20080087296-$ or US-20050020948-$ or US-20190239631-$ or US-20190014899-$ or US-20190008332-$ or US-20180361137-$ or US-20160270821-$ or US-20150257521-$ or US-20170347789-$ or US-20170119220-$ or US-20170071321-$ or US-20170042386-$).did. or (US-20160287034-$ or US-20160128461-$ or US-20150305487-$ or US-20150305486-$ or US-20150173842-$ or US-20140373003-$ or US-20140135665-$ or US-20130060176-$ or US-20130023901-$ or US-20120233798-$ or US-20120165710-$ or US-					

		20110044750-$ or US-20120037184-$ or US-20090083917-$ or US-20050278877-$ or US-20050278876-$ or US-20050199265-$ or US-20040210175-$ or US-20180093106-$ or US-20140303695-$ or US-20140261380-$ or US-20180361167-$ or US-20180352934-$ or US-20160184173-$ or US-20160129274-$ or US-20110220634-$ or US-20110200381-$).did. or (US-20200360178-$ or US-20080141681-$ or US-20210196504-$ or US-20190192873-$ or US-20200368062-$ or US-20180214304-$ or US-20190175396-$ or US-20190167330-$ or US-20130331914-$ or US-20180369064-$ or US-20080188915-$ or US-20080132976-$ or US-20150238349-$ or US-20160262930-$ or US-20160238040-$ or US-20140005759-$ or US-20150119962-$ or US-20140221880-$ or US-20130281893-$ or US-20120172956-$ or US-20120172955-$ or US-20120150268-$ or US-20200232720-$ or US-20200129327-$ or US-20080264464-$ or US-20080203080-$ or US-20080168605-$).did. or (US-20080086063-$ or US-20070225781-$ or US-20050209663-$ or US-20060135911-$ or US-20050149153-$ or US-20050131504-$ or US-20040249427-$ or US-20020107543-$ or US-20190148617-$ or US-20190133213-$ or US-20190117447-$ or US-20190106878-$ or US-20190101337-$ or US-20160223269-$ or US-					

		20140087105-$ or US-20120079647-$ or US-20040024438-$ or US-20080168595-$ or US-20080140166-$ or US-20060064147-$ or US-20040186541-$).did. or (US-10013875-$ or US-9386843-$ or US-2424699-$ or US-3699952-$ or US-9132058-$ or US-9032576-$ or US-7749178-$ or US-7384377-$ or US-5551949-$ or US-6730050-$ or US-6312397-$ or US-5072724-$ or US-9895285-$ or US-7481783-$ or US-6811539-$ or US-6511446-$ or US-5902256-$ or US-5462515-$ or US-5429585-$ or US-4884560-$ or US-4722326-$ or US-4702235-$ or US-4640284-$ or US-4604993-$ or US-4396011-$ or US-4291685-$).did. or (US-3710785-$ or US-1777151-$ or US-1844247-$ or US-2540792-$ or US-3467080-$ or US-3733634-$ or US-3775800-$ or US-3864779-$ or US-3968789-$ or US-4027348-$ or US-4397055-$ or US-4404965-$ or US-10722424-$ or US-10667985-$ or US-9642768-$ or US-9066844-$ or US-7644589-$ or US-5662593-$ or US-5131384-$ or US-4203431-$ or US-5423102-$ or US-5725483-$ or US-7695207-$ or US-7211057-$ or US-4526163-$ or US-					

		4724563-$ or US- 4799280-$).did. or (US- 4858600-$ or US- 5353461-$ or US- 5471695-$ or US- 5687442-$ or US- 5891063-$ or US- 5956792-$ or US- 5974615-$ or US- 6032313-$ or US- 6090085-$ or US- 9138257-$ or US- 7572238-$ or US- 7469703-$ or US- 7384405-$ or US- 7157816-$ or US- 5300095-$ or US- 4691693-$ or US- 4520799-$ or US- 3503395-$ or US- 2787998-$ or US- 10307330-$ or US- 9962284-$ or US- 7147610-$ or US- 6711750-$ or US- 6567696-$ or US- 6416534-$ or US- 6409748-$ or US- 6102875-$).did. or (US- 5918590-$ or US- 4685442-$ or US- 1703811-$ or US- 8777881-$ or US- 4010742-$ or US- 5725484-$ or US- 5577997-$ or US- 5176130-$ or US- 4577625-$ or US- 4427001-$ or US- 4086922-$ or US- 8372130-$ or US- 5775344-$ or US- 5327886-$ or US- 4925743-$ or US- 4559047-$ or US- 3804077-$ or US- 3298368-$ or US- 2698617-$ or US- 2385501-$ or US- 1911027-$ or US- 1714693-$ or US- 10188549-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8921746-$).did. or (US- 8882378-$ or US- 8864401-$ or US-					

		8715210-$ or US- 8620451-$ or US- 7959369-$ or US- 7322945-$ or US- 7128722-$ or US- 6648904-$ or US- 5556468-$ or US- 5690608-$ or US- 5336159-$ or US- 4920956-$ or US- 4787373-$ or US- 4655232-$ or US- 4441487-$ or US- 4087675-$ or US- 8523791-$ or US- 5989286-$ or US- 5131383-$ or US- 4944297-$ or US- 4745909-$ or US- 4502469-$ or US- 3382866-$ or US- 2809630-$ or US- 2638527-$ or US- 1840981-$ or US- 1634316-$).did. or (US- 7465296-$ or US- 7112178-$ or US- 6499485-$ or US- 5251620-$ or US- 4681095-$ or US- 10441496-$ or US- 10098808-$ or US- 9675516-$ or US- 8226699-$ or US- 6336907-$ or US- 6013042-$ or US- 8641702-$ or US- 10314763-$ or US- 8484788-$ or US- 10849421-$ or US- 9919437-$ or US- 7386906-$ or US- 9993059-$ or US- 9763508-$ or US- 8740917-$ or US- 8469909-$ or US- 5927289-$ or US- 5218955-$ or US- D864577-$ or US- 10426692-$ or US- 10058351-$ or US- 10058168-$).did. or (US-9596928-$ or US- 9578998-$ or US- D767897-$ or US- 9351559-$ or US- D715558-$ or US- 10080428-$ or US-					

		9474358-$ or US- 10856648-$ or US- 10736413-$ or US- 10681975-$ or US- 10603799-$ or US- 10588400-$ or US- 10531729-$ or US- 10518097-$ or US- 10349731-$ or US- 10194742-$ or US- 10182642-$ or US- 10021964-$ or US- 9925113-$ or US- 9801448-$ or US- 9380860-$ or US- 9301657-$ or US- 9107486-$ or US- 8966710-$ or US- 6170108-$ or US- 4476602-$ or US- 4158246-$).did. or (US- 6001070-$ or US- 6758826-$ or US- 9066778-$ or US- 9883982-$ or US- 5520617-$ or US- 3610232-$ or US- 2526190-$ or US- 7244237-$ or US- 6679857-$ or US- 2709432-$ or US- 2985166-$ or US- 6074413-$ or US- 5484366-$ or US- 7077858-$ or US- 4846176-$ or US- 5618275-$ or US- 5588161-$ or US- 5163446-$ or US- 5323778-$ or US- 9029736-$ or US- 6523354-$ or US- 10470922-$ or US- 9132031-$ or US- 6017337-$ or US- 6074414-$ or US- 5800490-$ or US- 4889970-$).did. or (US- 3967627-$).did. or (US- 3413973-$ or US- 3382866-$ or US- 3370583-$ or US- 2795224-$ or US- 2472385-$ or US- 2424699-$ or US- 2285105-$ or US- 1844247-$ or US- 1664009-$ or US-				

		2540792-$ or US-3467080-$ or US-1974031-$ or US-3503395-$ or US-2985166-$ or US-2261385-$ or US-2154428-$ or US-2097455-$ or US-2067979-$ or US-1703811-$ or US-2490074-$ or US-1969042-$ or US-1951776-$ or US-1905750-$ or US-1772501-$ or US-1731504-$ or US-3298368-$).did. or (US-2698617-$ or US-2385501-$ or US-2183726-$ or US-2176736-$ or US-2023412-$ or US-RE19043-$ or US-1947042-$ or US-1911027-$ or US-1714693-$ or US-1380986-$ or US-2809630-$ or US-2638527-$ or US-2546095-$ or US-2515524-$ or US-2021732-$ or US-1840981-$ or US-1833105-$ or US-1634316-$ or US-2787261-$ or US-2448797-$ or US-2208729-$ or US-1820895-$ or US-2465250-$ or US-2526190-$ or US-2709432-$ or US-2787998-$ or US-2593875-$).did. or (US-3154926-$).did.					
L53	663	a61n1/328.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 01:56 PM
L54	308	L53 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet) with (ring annular circular circle circumferen$4 treatment therapy)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 01:56 PM
L55	105	L52 and (led diode light laser infrared IR	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 01:56 PM

		phototherap$4 LLLT wavelength uv ultraviolet) with (ring annular circular circle circumferen$4 treatment therapy)					
L56	15	("20130171083"|"20120207532"|"20120282199"|"20150327653"|"20170049212"|"8734772"|"8591133"|"20110184334"|"20120109041"|"20130317416"|"20150139924"|"9456678"|"20030180690"|"20130131575"|"20120024308").PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:00 PM
L57	396	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:20 PM

		20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-					

		20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-					

		20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-					

		20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-					

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Therabody, Inc. v. Hyperice IP Subco, LLC
PGR2025-00013

		20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-					

		5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$).did. or (US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US-					

		1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$).did.					
L58	21	("20080139981"|"4669452"|"5183034"|"5899868"|"20090210027"|"5352188"|"20070270727"|"5063911"|"5065743"|"5356369"|"7153282"|"20030009116"|"20140309565"|"5103809"|"20140163437"|"0854983"|"3710785"|"6010467"|"6267738"|"20090240176"). PN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:22 PM
L59	405	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:26 PM

		20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-					

		20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-					

		20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-					

		20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-					

		20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-					

		1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US- 10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US-					

		5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$ or US-9456678-$ or US-10722424-$ or US-9504826-$ or US-9278230-$ or US-9084587-$ or US-8620451-$ or US-2490074-$ or US-5103809-$ or US-3710785-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$).did.					
L60	29	(US-20110040235-$ or US-20040147984-$ or US-20090177125-$ or US-20090088824-$ or US-20090048557-$ or US-20140128780-$ or US-20130046212-$ or US-20200179220-$ or US-20190262607-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20140088668-$ or US-20130131559-$ or US-20200411161-$ or US-20200405047-$ or US-20200323337-$ or US-20200253811-$ or US-20180168318-$ or US-20170056685-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150119771-$).did. or (US-	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 03:26 PM

		20140202493-$).did. or (US-5176130-$ or US-2490074-$).did.					
L61	2114	a61h2201/10.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 03:26 PM
L62	2869	a61n5/0616.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 03:27 PM
L63	660	a61n1/328.cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 03:27 PM
L64	5246	L61 L62 L63	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 03:27 PM
L65	1242	L64 and (led diode light laser infrared IR phototherap$4 LLLT wavelength uv ultraviolet light?emitting) with (ring annular circular circle circumferen$4 detachab$4 removab$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:28 PM
L67	1192	L65 not L59	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:28 PM
L68	1152	L67 not (@ad>="20200629")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:28 PM
L69	1097	L68 and (skin massag$4 beauty)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:29 PM
L70	411	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:33 PM

		20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-					

		20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-					

		20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-					

		20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-					

		20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-					

		10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-5363045-$ or US-5358503-$ or US-5176130-$ or US-					

		2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$ or US-9456678-$ or US-10722424-$ or US-9504826-$ or US-9278230-$ or US-9084587-$ or US-8620451-$ or US-2490074-$ or US-5103809-$ or US-3710785-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$).did.					
L71	64	L70 and (proximity distance skin) near4 (sens$4 detect$4)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 03:34 PM
L72	53	("20040210277"|"20060030908"|"20070185553"|"20090240310"|"5233283"|"5259380"|"5420768"|"20070185553"|"20030167080"|"20050149150"|"20050261750"|"20070129778"|"20070191822"|"5783909"|"6239442"|"D576284"|"20050055070"|"20050283211"|"20060265030"|"20080052872"|"6210426"|"6	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 04:33 PM

		443978"|"6875225"|"20060184214"|"5920075"|"6063108"|"6221095"|"6283956"|"7201765"|"D575407"|"20080140164"|"20040244138"|"20050228463"|"20050234383"|"20060212025"|"20070032843"|"20070231193"|"20080103563"|"20080140164"|"6663659"|"20060129209"|"20060236496"|"20060293727"|"20070106347"|"20070167999"|"20080004611"|"5500009"|"5634711"|"5728090"|"RE40403"|"20060009822"|"4952369"|"7014639"|"20050065579"|"3970856").PN.					
L73	50	("4232678" | "4787373" | "4930504" | "5259380" | "5551949" | "5660836" | "5755752" | "6009876" | "6019482" | "6030374" | "6053906" | "6120497" | "6149644" | "6264652" | "6283956" | "6309387" | "6312397" | "6312450" | "6398753" | "6443915" | "6569109" | "6629971" | "6663659" | "6676655" | "6702837").PN. OR ("7014639").URPN.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/29 04:53 PM
L74	58	(US-20200085675-$ or US-20210128402-$ or US-20180031090-$ or US-20180031089-$ or US-20150265825-$ or US-20150297393-$ or US-20140276255-$ or US-20180295980-$ or US-20110040235-$ or US-20100121419-$ or US-20150045702-$ or US-20140128780-$ or US-20130046212-$ or US-20200179220-$ or US-20190126061-$ or US-20180168318-$ or US-20150360014-$ or US-20150119771-$ or US-20100274162-$ or US-20080103563-$ or US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 07:11 PM

		US-20200352820-$ or US-20210169733-$ or US-20200069510-$).did. or (US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$ or US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$).did. or (US-7014639-$ or US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$).did.					
L75	14	(US-20200179220-$ or US-20190350793-$ or US-20190017528-$ or US-20190015294-$ or US-20180168318-$ or US-20180031090-$ or US-20180031089-$ or US-20150297393-$ or US-20150119771-$ or US-20140128780-$ or US-20130046212-$ or US-20110040235-$ or US-20100121419-$).did. or (US-7014639-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/29 07:25 PM
L76	2	(("10857064") or ("10945915")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/30 03:31 PM
L77	2	(("6524329") or ("6974224")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/30 03:32 PM
L78	1	("10758452").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/30 03:35 PM

L79	431	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:44 PM

		US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or						

		US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or					

		US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or						

		US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or					

		US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-					

		6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-5363045-$ or US-5358503-$ or US-5176130-$ or US-2183726-$ or US-1228669-$ or US-9126034-$ or US-8936542-$ or US-6461377-$ or US-6123657-$ or US-6001055-$ or US-5632720-$ or US-5382222-$ or US-5662593-$ or US-5131384-$ or US-4326508-$).did. or (US-4841955-$ or US-4549535-$ or US-6432036-$ or US-9456678-$ or US-10722424-$ or US-9504826-$ or US-9278230-$ or US-					

		9084587-$ or US-8620451-$ or US-2490074-$ or US-5103809-$ or US-3710785-$ or US-9782604-$ or US-9592405-$ or US-7479136-$ or US-6702837-$ or US-6019482-$ or US-5551949-$ or US-6875225-$ or US-6974224-$ or US-6524329-$).did. or (US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-3536064-$ or US-2512536-$ or US-1955623-$ or US-1352894-$ or US-1339179-$ or US-1772501-$ or US-2183726-$ or US-1228669-$ or US-3467080-$ or US-2490074-$ or US-2424699-$).did.					
L80	41681	a61h$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:45 PM
L81	114530	a61n$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:45 PM
L82	32068	a46b$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:46 PM
L83	183250	L80 L81 L82	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:46 PM
L84	74	L83 and (proximity near4 (detect$4 sens$4)) near7 ("180" "180.deg.")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:46 PM
L85	74	L83 and (proximity near4 (detect$4 sens$4)) near7 ("180" "180.deg." "180.deg"$2)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:47 PM
L86	484	L83 and (proximity near4 (detect$4 sens$4)) near7 ("180" "180.deg." "180.deg"$2 degree second)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:49 PM
L87	410	L86 not L85	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/30 03:50 PM
L88	41681	a61h$.cpc.	(US-PGPUB; USPAT;	OR	ON	ON	2021/10/31

			USOCR)				01:11 PM
L89	114530	a61n$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 01:11 PM
L90	32068	a46b$.cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 01:11 PM
L91	183250	L88 L89 L90	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 01:11 PM
L92	103	L91 and (proximity near4 (detect$4 sens$4)) near7 (pair)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 01:11 PM
L93	448	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 09:57 PM

		20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-					

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PGR2025-00013

		20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-					

		20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or						

		US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or						

		US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$).did. or (US-10714953-$ or US-					

		6965375-$ or US- 6245890-$ or US- 7425947-$ or US- 10945915-$ or US- 10940081-$ or US- 10702448-$ or US- 10758452-$ or US- 10617588-$ or US- 10959911-$ or US- 10470970-$ or US- 10959908-$ or US- 8372111-$ or US- 7435232-$ or US- 4669452-$ or US- 3993052-$ or US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 10314762-$ or US- 7273159-$ or US- 6682496-$ or US- 10806660-$).did. or (US-10993874-$ or US- 10426691-$ or US- 9839572-$ or US- 6352518-$ or US- 6228042-$ or US- 5951501-$ or US- 5593381-$ or US- 5300095-$ or US- 5167226-$ or US- 5088474-$ or US- 5085207-$ or US- 4827914-$ or US- 4566442-$ or US- 4565189-$ or US- 4513737-$ or US- 4495940-$ or US- 4088128-$ or US- 4079733-$ or US- 3837335-$ or US- 3626934-$ or US- 1955623-$ or US- 10428850-$ or US- D912835-$ or US- 11090222-$ or US- 10357425-$ or US- 10857064-$ or US- 10847984-$).did. or (US-10842703-$ or US- 10682281-$ or US- 7695207-$ or US- 4858600-$ or US- 1772501-$ or US- 11122206-$ or US-				

		10511777-$ or US- 6443915-$ or US- 7896908-$ or US- 7014639-$ or US- 6010264-$ or US- 5698866-$ or US- 5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$).did. or (US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 3536064-$ or US- 2512536-$ or US- 1955623-$ or US- 1352894-$ or US- 1339179-$ or US- 1772501-$ or US- 2183726-$ or US- 1228669-$ or US-				

		3467080-$ or US-2490074-$ or US-2424699-$).did.					
L94	73	L93 and (electrode microcurrent micro?current)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 09:57 PM
L95	72	L94 not (@ad>="20200629")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/10/31 09:58 PM
L96	1	("7384405").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/31 10:01 PM
L97	1	("20120165710").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/10/31 10:01 PM
L98	65	(US-20200085675-$ or US-20210128402-$ or US-20180031090-$ or US-20180031089-$ or US-20150265825-$ or US-20150297393-$ or US-20140276255-$ or US-20140194790-$ or US-20180295980-$ or US-20170189670-$ or US-20110040235-$ or US-20110106067-$ or US-20100121419-$ or US-20150045702-$ or US-20140128780-$ or US-20130046212-$ or US-20200179220-$ or US-20100274329-$ or US-20100137752-$ or US-20190126061-$ or US-20180168318-$ or US-20150360014-$ or US-20150119771-$ or US-20100274162-$ or US-20080103563-$ or US-20070213698-$).did. or (US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/31 10:31 PM

		20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$ or US-20180149437-$).did. or (US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$).did. or (US-10511777-$ or US-7014639-$ or US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$).did.					
L99	17	(US-20200179220-$ or US-20190350793-$ or US-20190017528-$ or US-20190015294-$ or US-20180168318-$ or US-20180031090-$ or US-20180031089-$ or US-20150297393-$ or US-20150119771-$ or US-20140128780-$ or US-20130046212-$ or US-20110040235-$ or US-20100274329-$ or US-20100137752-$ or US-20100121419-$ or US-20070213698-$).did. or (US-7014639-$).did.	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/31 10:42 PM
L100	16	(US-20200179220-$ or US-20190017528-$ or US-20190015294-$ or US-20180168318-$ or US-20180031090-$ or US-20180031089-$ or US-20150297393-$ or US-20150119771-$ or US-20140128780-$ or US-20130046212-$ or US-20110040235-$ or US-20100274329-$ or US-20100137752-$ or US-20100121419-$ or US-20070213698-$).did. or (US-7014639-	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/31 10:57 PM

		$).did.					
L101	49	L98 not L100	(US-PGPUB; USPAT)	OR	ON	ON	2021/10/31 11:06 PM
L102	2	(("20160367425") or ("20170027798")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/01 01:37 AM
L103	449	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-20030009116-$ or US-20210244609-$ or US-20210228437-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/03 05:03 PM

		20210196563-$ or US-20210196562-$).did. or (US-20210161759-$ or US-20210128402-$ or US-20210113427-$ or US-20210113421-$ or US-20210077340-$ or US-20210022951-$ or US-20210000683-$ or US-20200393026-$ or US-20200390644-$ or US-20200357046-$ or US-20190254921-$ or US-20200315904-$ or US-20200289364-$ or US-20200276079-$ or US-20200268594-$ or US-20200261306-$ or US-20200230012-$ or US-20200155410-$ or US-20200113322-$ or US-20200000678-$ or US-20190365598-$ or US-20190262222-$ or US-20190247271-$ or US-20190159961-$ or US-20160045081-$ or US-20160184175-$ or US-20180031090-$).did. or (US-20180031089-$ or US-20170304144-$ or US-20140031866-$ or US-20170049278-$ or US-20160184177-$ or US-20160113840-$ or US-20150265825-$ or US-20150174387-$ or US-20140188169-$ or US-20090236359-$ or US-20100137907-$ or US-20030158505-$ or US-20050222525-$ or US-20050187498-$ or US-20020082532-$ or US-20020082536-$ or US-20210259915-$ or US-20210186800-$ or US-20210177692-$ or US-20200330321-$ or US-20140194900-$ or US-20210100718-$ or US-20200390645-$ or US-20190254922-$ or US-20200222263-$ or US-20160213558-$ or US-20180050440-$).did. or (US-20050131461-$ or					

		US-20050075591-$ or US-20200009010-$ or US-20190247270-$ or US-20160151238-$ or US-20150297393-$ or US-20150283026-$ or US-20140276255-$ or US-20140194790-$ or US-20120253245-$ or US-20180295980-$ or US-20170189670-$ or US-20160206087-$ or US-20160184173-$ or US-20160184162-$ or US-20150333609-$ or US-20150182290-$ or US-20110040235-$ or US-20090222072-$ or US-20090163984-$ or US-20070206986-$ or US-20040147984-$ or US-20040024438-$ or US-20200086137-$ or US-20150305969-$ or US-20140378555-$ or US-20130060176-$).did. or (US-20110184499-$ or US-20110106067-$ or US-20110098781-$ or US-20100292746-$ or US-20100210993-$ or US-20100121419-$ or US-20100049177-$ or US-20090177125-$ or US-20060058714-$ or US-20080119913-$ or US-20060253051-$ or US-20050075149-$ or US-20120209357-$ or US-20120121309-$ or US-20110092863-$ or US-20110091265-$ or US-20090287195-$ or US-20090234423-$ or US-20090088824-$ or US-20090048557-$ or US-20080172045-$ or US-20080154162-$ or US-20080014011-$ or US-20160158568-$ or US-20150150599-$ or US-20150045702-$ or US-20140194668-$).did. or (US-20140128780-$ or US-20130046212-$ or US-20130030506-$ or US-20110144410-$ or						

		US-20110032960-$ or US-20100179456-$ or US-20100081858-$ or US-20090270779-$ or US-20090005631-$ or US-20080214968-$ or US-20070185553-$ or US-20070073366-$ or US-20070073198-$ or US-20070027411-$ or US-20060047330-$ or US-20050131497-$ or US-20050070977-$ or US-20050045189-$ or US-20040260210-$ or US-20040030370-$ or US-20210275224-$ or US-20210059396-$ or US-20080262394-$ or US-20090299236-$ or US-20200170879-$ or US-20190209425-$ or US-20190142689-$).did. or (US-20180185236-$ or US-20170360652-$ or US-20170319429-$ or US-20170128130-$ or US-20160256348-$ or US-20140142472-$ or US-20050142093-$ or US-20050107724-$ or US-20030004441-$ or US-20210145686-$ or US-20210038472-$ or US-20200179220-$ or US-20200129372-$ or US-20190262607-$ or US-20200154874-$ or US-20160228184-$ or US-20100274329-$ or US-20100137752-$ or US-20030163068-$ or US-20190142691-$ or US-20180360203-$ or US-20180256439-$ or US-20180178032-$ or US-20180140860-$ or US-20150283025-$ or US-20140088668-$ or US-20130131559-$).did. or (US-20120265274-$ or US-20110060254-$ or US-20080275532-$ or US-20080018167-$ or US-20060235341-$ or US-20090270915-$ or US-20060293711-$ or					

		US-20200237085-$ or US-20160192814-$ or US-20210045521-$ or US-20200411161-$ or US-20200405047-$ or US-20200352317-$ or US-20200323337-$ or US-20200237604-$ or US-20200187635-$ or US-20200170399-$ or US-20200093945-$ or US-20200093252-$ or US-20200085684-$ or US-20200038673-$ or US-20200038530-$ or US-20200037747-$ or US-20200037746-$ or US-20200000294-$ or US-20200000293-$ or US-20190298036-$).did. or (US-20190126061-$ or US-20190029411-$ or US-20190014899-$ or US-20190008332-$ or US-20180361437-$ or US-20180288160-$ or US-20180279762-$ or US-20180193219-$ or US-20180015299-$ or US-20170367761-$ or US-20170367543-$ or US-20170238686-$ or US-20170188695-$ or US-20170172837-$ or US-20170150851-$ or US-20170150810-$ or US-20170135894-$ or US-20170119144-$ or US-20170071321-$ or US-20170035649-$ or US-20160339218-$ or US-20160331106-$ or US-20160183743-$ or US-20200253811-$ or US-20180169682-$ or US-20180168318-$ or US-20170049212-$).did. or (US-20150327653-$ or US-20130317416-$ or US-20120207532-$ or US-20120109041-$ or US-20120024308-$ or US-20030180690-$ or US-20180093106-$ or US-20170056685-$ or US-20160339219-$ or US-20160331308-$ or					

		US-20150360014-$ or US-20150224020-$ or US-20150182415-$ or US-20150119771-$ or US-20140202493-$ or US-20120165710-$ or US-20120037184-$ or US-20110009783-$ or US-20060211961-$ or US-20040082983-$ or US-20160074641-$ or US-20160015150-$ or US-20150305487-$ or US-20120136289-$ or US-20120065556-$ or US-20100274162-$ or US-20100145242-$).did. or (US-20210138260-$ or US-20200352306-$ or US-20190388707-$ or US-20200179713-$ or US-20200101312-$ or US-20200046999-$ or US-20100211136-$ or US-20140343574-$ or US-20080140164-$ or US-20080103563-$ or US-20050234383-$ or US-20070106347-$ or US-20070032843-$ or US-20060030908-$ or US-20050065579-$ or US-20050055070-$ or US-20040210277-$ or US-20210022565-$ or US-20200113390-$ or US-20170181925-$ or US-20200085015-$ or US-20190117503-$ or US-20190117497-$ or US-20120226268-$ or US-20130190845-$ or US-20190046812-$ or US-20110034837-$).did. or (US-20170164876-$ or US-20150290076-$ or US-20150205279-$ or US-20070217199-$ or US-20070213698-$).did. or (US-10714953-$ or US-6965375-$ or US-6245890-$ or US-7425947-$ or US-10945915-$ or US-10940081-$ or US-10702448-$ or US-						

		10758452-$ or US-10617588-$ or US-10959911-$ or US-10470970-$ or US-10959908-$ or US-8372111-$ or US-7435232-$ or US-4669452-$ or US-3993052-$ or US-3494353-$ or US-3169521-$ or US-2078159-$ or US-1660821-$ or US-1657765-$ or US-1545027-$ or US-10314762-$ or US-7273159-$ or US-6682496-$ or US-10806660-$).did. or (US-10993874-$ or US-10426691-$ or US-9839572-$ or US-6352518-$ or US-6228042-$ or US-5951501-$ or US-5593381-$ or US-5300095-$ or US-5167226-$ or US-5088474-$ or US-5085207-$ or US-4827914-$ or US-4566442-$ or US-4565189-$ or US-4513737-$ or US-4495940-$ or US-4088128-$ or US-4079733-$ or US-3837335-$ or US-3626934-$ or US-1955623-$ or US-10428850-$ or US-D912835-$ or US-11090222-$ or US-10357425-$ or US-10857064-$ or US-10847984-$).did. or (US-10842703-$ or US-10682281-$ or US-7695207-$ or US-4858600-$ or US-1772501-$ or US-11122206-$ or US-10511777-$ or US-6443915-$ or US-7896908-$ or US-7014639-$ or US-6010264-$ or US-5698866-$ or US-					

		5363045-$ or US- 5358503-$ or US- 5176130-$ or US- 2183726-$ or US- 1228669-$ or US- 9126034-$ or US- 8936542-$ or US- 6461377-$ or US- 6123657-$ or US- 6001055-$ or US- 5632720-$ or US- 5382222-$ or US- 5662593-$ or US- 5131384-$ or US- 4326508-$).did. or (US- 4841955-$ or US- 4549535-$ or US- 6432036-$ or US- 9456678-$ or US- 10722424-$ or US- 9504826-$ or US- 9278230-$ or US- 9084587-$ or US- 8620451-$ or US- 2490074-$ or US- 5103809-$ or US- 3710785-$ or US- 9782604-$ or US- 9592405-$ or US- 7479136-$ or US- 6702837-$ or US- 6019482-$ or US- 5551949-$ or US- 6875225-$ or US- 6974224-$ or US- 6524329-$ or US- 6221095-$ or US- 4561440-$ or US- 7384405-$).did. or (US- 3494353-$ or US- 3169521-$ or US- 2078159-$ or US- 1660821-$ or US- 1657765-$ or US- 1545027-$ or US- 3536064-$ or US- 2512536-$ or US- 1955623-$ or US- 1352894-$ or US- 1339179-$ or US- 1772501-$ or US- 2183726-$ or US- 1228669-$ or US- 3467080-$ or US- 2490074-$ or US- 2424699-$).did.					
L104	155	L103 and (lotion oil	(US-PGPUB; USPAT;	OR	ON	ON	2021/11/03

		cosmetic)	USOCR)				05:27 PM
L105	2	(("20150119771") or ("20100121419")).PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/03 06:01 PM
L106	1	("20190015294").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/03 09:35 PM
L107	1	("20070213698").PN.	(US-PGPUB; USPAT; USOCR)	OR	OFF	OFF	2021/11/03 10:07 PM
L108	449	(US-20210244611-$ or US-20210244610-$ or US-20200352821-$ or US-20200352820-$ or US-20210169733-$ or US-20200069510-$ or US-20210128399-$ or US-20210104318-$ or US-20210059898-$ or US-20210022955-$ or US-20200405574-$ or US-20200214930-$ or US-20200261307-$ or US-20200265590-$ or US-20200261310-$ or US-20180147800-$ or US-20190350793-$ or US-20190017528-$ or US-20200005469-$ or US-20160135516-$ or US-20170076361-$ or US-20180200141-$ or US-20190015294-$ or US-20170364154-$ or US-20180263845-$ or US-20180235031-$).did. or (US-20180149437-$ or US-20170297280-$ or US-20160367425-$ or US-20120117481-$ or US-20030165480-$ or US-20040037895-$ or US-20020192231-$ or US-20200343746-$ or US-20200289365-$ or US-20190136889-$ or US-20190209424-$ or US-20170027798-$ or US-20210307998-$ or US-20200085675-$ or US-20210283005-$ or US-20190175434-$ or US-20170304145-$ or US-20170042754-$ or US-20150005682-$ or US-20130261516-$ or US-20070270727-$ or US-20060282025-$ or US-	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2021/11/03 11:43 PM