

TABLE 1: Listing of References from Search Printout (EX1002, 141-142)

Publication No.	Application No.	Priority Date	Inventor	Applicant	Family Description
KR20220020778A	KR20210103672A	8/11/2020	Schmidt	L'Air Liquide SA	Counterpart of 805 Patent
CN114074920A	CN202110894117A	8/11/2020	Schmidt	L'Air Liquide SA	Counterpart of 805 Patent
EP3954650A1	EP20020366	8/11/2020	Schmidt	L'Air Liquide SA	Counterpart of 805 Patent
WO2006042986A1	PCTFR2005050818	10/20/2004	Wentink	L'Air Liquide SA	[1]
FR2876683A1	FR0452377	10/20/2004	Wentink	L'Air Liquide SA	[1] - National Stage of WO 986
EP3828132A1	EP19020665	11/26/2019	Shrivastava	L'Air Liquide SA	Not Prior art. Applicant owned application published 6/22/21
ES2711529T3	ES09808776	8/21/2008	Allam	Gtlpetrol LLC	[4] - National Stage of WO 162
CA2734874C	CA2734874	8/21/2008	Allam	Gtlpetrol LLC	[4] - National Stage of WO 162
US20220267147	US17677805	2/22/2021	Ravikumar	Fluor Technologies Corp	[2] - National Stage of WO 439
WO2022178439A1	PCTUS2022017352	2/22/2021	Ravikumar	Fluor Technologies Corp	[2]
CA2734874A1	CA2734874	8/21/2008	Allam	Gtlpetrol LLC	[4] - National Stage of WO 162
DE102012112705A1	DE102012112705	12/20/2012	Schlichting	L'Air Liquide SA	[3]
CA2647909A1	CA2647909	4/3/2006	Howard	Praxair Technology Inc	[5] - National Stage of WO 673

CA2647909C	CA2647909	4/3/2006	Howard	Praxair Technology Inc	[5] - National Stage of WO 673
US20070232706	US11395137	4/3/2006	Howard	Praxair Technology Inc	[5] - National Stage of WO 673
US20150323248	US14410903	4/7/2012	Terrien	L'Air Liquide SA	[6] - National Stage of WO 745
EP2682364A1	EP12174867	7/4/2012	Terrien	L'Air Liquide SA	[6] - National Stage of WO 745
US7871457	US11395137	4/3/2006	Howard	Praxair Technology Inc	[5] - National Stage of WO 673
EP2356068A2	EP09808776	8/21/2008	Allam	Gtlpetrol LLC	[4] - National Stage of WO 162
WO2010022162A2	PCTUS2009054332	8/21/2008	Allam	Gtlpetrol LLC	[4]
US20170057819	US15144675	8/21/2008	Allam	Gtlpetrol LLC	[4] - National Stage of WO 162
WO2007123673A1	PCTUS2007007898	4/3/2006	Howard	Praxair Technology Inc	[5]
US20100047160	US12544099	8/21/2008	Allam	Gtlpetrol LLC	[4] - National Stage of WO 162
EP2004307A1	EP07754418	4/3/2006	Howard	Praxair Technology Inc	[5] - National Stage of WO 673
RU2516527C2	RU2011110497	8/21/2008	Allam	Gtlpetrol LLC	[4] - National Stage of WO 162
WO2014005745A1	PCTEP2013059281	7/4/2012	Terrien	L'Air Liquide SA	[6]
EP2931654B1	EP13805447	12/13/2012	Darde II	L'Air Liquide SA	[8] - National Stage of WO 097
FR2999555A1	FR1262001	12/13/2012	Darde II	L'Air Liquide SA	[8] - National Stage of WO 097

CN113795460A	CN202080032748A	5/2/2019	Christensen	Topsoe AS	[7] - National Stage of WO2020221642
WO2014091097A1	PCTFR2013052611	12/13/2012	Darde II	L'Air Liquide SA	[8]
EP2931654A1	EP13805447	12/13/2012	Darde II	L'Air Liquide SA	[8] - National Stage of WO 097
FR2999556A1	FR1262002	12/13/2012	Darde	L'Air Liquide SA	[10] - National Stage of WO 097
EP2356068B1	EP09808776	8/21/2008	Allam	Gtlpetrol LLC	[4] - National Stage of WO 162
JP2012511493A	JP2011540196A	12/11/2008	Hardman	BP PLC	[9] - National Stage of WO2010067077A1
US9327972	US12544099	8/21/2008	Allam	Gtlpetrol LLC	[4] - National Stage of WO 162
WO2014091098A1	PCTFR2013052613	12/13/2012	Darde	L'Air Liquide SA	[10]
KR20090015041A	KR20087026815A	4/3/2006	Howard	Praxair Technology Inc	[5] - National Stage of WO 673
EP2931655A1	EP13805448	12/13/2012	Darde	L'Air Liquide SA	[10] - National Stage of WO 098
EP2931655B1	EP13805448	12/13/2012	Darde	L'Air Liquide SA	[10] - National Stage of WO 098
JP5677659B2	JP2011540196A	12/11/2008	Hardman	BP PLC	[9] - National Stage of WO2010067077A1
WO2015173290A1	PCTEP2015060565	5/15/2014	Chambron	L'Air Liquide SA	[11]
CA2889078A1	CA2889078	12/13/2012	Darde II	L'Air Liquide SA	[8] - National Stage of WO 097

US20210155478	US17102593	11/26/2019	Shrivastava	L'Air Liquide SA	Not Prior art. Applicant owned application with first family member published 6/22/21
WO2021175662A1	PCTEP2021054441	3/6/2020	Reinertsen	Reinertsen New Energy As	[12]
IN202117049549A	IN202117049549	5/2/2019	Christensen	Topsoe AS	[7] - National Stage of WO2020221642
AU768779B2	AU5765499	9/16/1998	Grislingas	Den Norske Stats Oljeselskap AS	[13]
EP2944606A1	EP14305713	5/15/2014	Chambron	L'Air Liquide SA	[11] - National Stage of WO 290
WO2019162236A1	PCTEP2019053986	2/20/2018	Rytter	Reinertsen New Energy As	[14]
CA2888117A1	CA2888117	12/13/2012	Darde	L'Air Liquide SA	[10] - National Stage of WO 098
EP3755655A1	EP19705524	2/20/2018	Rytter	Reinertsen New Energy As	[14] - National Stage of WO 236

TABLE 2: Applicant Organized Search Printout (EX1002, 141-142)

Family Description	Publication No.	Application No.	Priority Date	Inventor	Applicant
[1] (See EX2008)	WO2006042986A1	PCTFR2005050818	10/20/2004	Wentink	L'Air Liquide SA
[1] - French National Stage of WO 986	FR2876683A1	FR0452377	10/20/2004	Wentink	L'Air Liquide SA
[2] (See EX2009)	WO2022178439A1	PCTUS2022017352	2/22/2021	Ravikumar	Fluor Technologies Corp
[2] – US National Stage of WO 439	US20220267147	US17677805	2/22/2021	Ravikumar	Fluor Technologies Corp
[3]	DE102012112705A1	DE102012112705	12/20/2012	Schlichting	L'Air Liquide SA
[4] (See EX2010)	WO2010022162A2	PCTUS2009054332	8/21/2008	Allam	Gtlpetrol LLC
[4] - US National Stage of WO 162	US9327972	US12544099	8/21/2008	Allam	Gtlpetrol LLC
[4] – Repeated Application	US20100047160	US12544099	8/21/2008	Allam	Gtlpetrol LLC
[4] - Continuation of U.S. 12/544,099	US20170057819	US15144675	8/21/2008	Allam	Gtlpetrol LLC
[4] – Russia National Stage of WO 162	RU2516527C2	RU2011110497	8/21/2008	Allam	Gtlpetrol LLC
[4] – European National Stage of WO 162	EP2356068B1	EP09808776	8/21/2008	Allam	Gtlpetrol LLC
[4] - Repeated Application	EP2356068A2	EP09808776	8/21/2008	Allam	Gtlpetrol LLC

[4] – Spanish Validation of WO 162	ES2711529T3	ES09808776	8/21/2008	Allam	Gtlpetrol LLC
[4] – Canadian National Stage of WO 162	CA2734874C	CA2734874	8/21/2008	Allam	Gtlpetrol LLC
[4] - Repeated Application	CA2734874A1	CA2734874	8/21/2008	Allam	Gtlpetrol LLC
[5] (See EX2011)	WO2007123673A1	PCTUS2007007898	4/3/2006	Howard	Praxair Technology Inc
[5] – US National Stage of WO 673	US7871457	US11395137	4/3/2006	Howard	Praxair Technology Inc
[5] - Repeated Application	US20070232706	US11395137	4/3/2006	Howard	Praxair Technology Inc
[5] – Korean National Stage of WO 673	KR20090015041A	KR20087026815A	4/3/2006	Howard	Praxair Technology Inc
[5] – European National Stage of WO 673	EP2004307A1	EP07754418	4/3/2006	Howard	Praxair Technology Inc
[5] – Canadian National Stage of WO 673	CA2647909C	CA2647909	4/3/2006	Howard	Praxair Technology Inc
[5] - Repeated Application	CA2647909A1	CA2647909	4/3/2006	Howard	Praxair Technology Inc
[6] (See EX2012)	WO2014005745A1	PCTEP2013059281	7/4/2012	Terrien	L'Air Liquide SA
[6] – US National Stage of WO 745	US20150323248	US14410903	4/7/2012	Terrien	L'Air Liquide SA
[6] – European National Stage of WO 745	EP2682364A1	EP12174867	7/4/2012	Terrien	L'Air Liquide SA

[7] – Chinese National Stage of WO2020221642	CN113795460A	CN202080032748A	5/2/2019	Christensen	Topsoe AS
[7] – Indian National Stage of WO2020221642*	IN202117049549A	IN202117049549	5/2/2019	Christensen	Topsoe AS
[8] (See EX2014)	WO2014091097A1	PCTFR2013052611	12/13/2012	Darde II	L'Air Liquide SA
[8] – European National Stage of WO 097	EP2931654B1	EP13805447	12/13/2012	Darde II	L'Air Liquide SA
[8] - Repeated Application	EP2931654A1	EP13805447	12/13/2012	Darde II	L'Air Liquide SA
[8] – French National Stage of WO 097	FR2999555A1	FR1262001	12/13/2012	Darde II	L'Air Liquide SA
[8] – Canadian National Stage of WO 097	CA2889078A1	CA2889078	12/13/2012	Darde II	L'Air Liquide SA
[9] – Japanese National Stage of WO2010067077A1	JP5677659B2	JP2011540196A	12/11/2008	Hardman	BP PLC
[9] – Repeated Application (EX2015)	JP2012511493A	JP2011540196A	12/11/2008	Hardman	BP PLC
[10] (See EX2016)	WO2014091098A1	PCTFR2013052613	12/13/2012	Darde	L'Air Liquide SA
[10] – European National Stage of WO 098	EP2931655A1	EP13805448	12/13/2012	Darde	L'Air Liquide SA
[10] - Repeated Application	EP2931655B1	EP13805448	12/13/2012	Darde	L'Air Liquide SA

[10] - French National Stage of WO 098	FR2999556A1	FR1262002	12/13/2012	Darde	L'Air Liquide SA
[10] – Canadian National Stage of WO 098	CA2888117A1	CA2888117	12/13/2012	Darde	L'Air Liquide SA
[11] (See EX2017)	WO2015173290A1	PCTEP2015060565	5/15/2014	Chambron	L'Air Liquide SA
[11] – European National Stage of WO 290	EP2944606A1	EP14305713	5/15/2014	Chambron	L'Air Liquide SA
[12]	WO2021175662A1	PCTEP2021054441	3/6/2020	Reinertsen	Reinertsen New Energy As
[13]	AU768779B2	AU5765499	9/16/1998	Grislingas	Den Norske Stats Oljeselskap AS
[14] (See EX2018)	WO2019162236A1	PCTEP2019053986	2/20/2018	Rytter	Reinertsen New Energy As
[14] - National Stage of WO 236	EP3755655A1	EP19705524	2/20/2018	Rytter	Reinertsen New Energy As
Counterparts of 805 Patent (See EX2019)	KR20220020778A	KR20210103672A	8/11/2020	Schmidt	L'Air Liquide SA
	EP3954650A1	EP20020366	8/11/2020	Schmidt	L'Air Liquide SA
	CN114074920A	CN202110894117A	8/11/2020	Schmidt	L'Air Liquide SA
Not Prior Art (Applicant Owned and published after	US20210155478	US17102593	11/26/2019	Shrivastava	L'Air Liquide SA

priority date. <i>See</i> EX2020)	EP3828132A1	EP19020665	11/26/2019	Shrivastava	L'Air Liquide SA
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*No record of IN202117049549A can be located. However, it shares the same partial title and priority date as CN113795460A.
EX1002, 141

TABLE 3: Prior Art Families Identified in Search Printout (EX1002, 141-142)

	Publication Number	Title	Priority Date	Inventor
[1]	WO2006042986A1	Method for producing a syngas having a h2/co ratio less than 2.5	10/20/2004	Wentink
[2]	WO2022178439A1	Improved gas reformer for producing hydrogen	2/22/2021	Ravikumar
[3]	DE102012112705A1	Process for producing methanol from carbon dioxide	12/20/2012	Schlichting
[4]	WO2010022162A2	Systems and processes for producing ultrapure, high pressure hydrogen	8/21/2008	Allam
[5]	WO2007123673A1	Carbon dioxide and hydrogen production method from synthesis gas	4/3/2006	Howard
[6]	WO2014005745A1	Process for recovering hydrogen and capturing carbon dioxide	7/4/2012	Terrien
[7]	CN113795460A	ATR-based hydrogen method and equipment	5/2/2019	Christensen
[8]	WO2014091097A1	Method for producing hydrogen by reforming hydrocarbons using steam, combined with carbon dioxide capture and steam production	12/13/2012	Darde II
[9]	JP5677659B2	Integrated gas purifier	12/11/2008	Hardman
[10]	WO2014091098A1	Method for producing hydrogen by reforming hydrocarbons using steam, combined with carbon dioxide capture and steam production	12/13/2012	Darde
[11]	WO2015173290A1	Process for generating hydrogen from a fischer-tropsch off-gas	5/15/2014	Chambron
[12]	WO2021175662A1	Hydrogen and/or ammonia production process	3/6/2020	Reinertsen
[13]	AU768779B2	Process for preparing a H2-rich gas and a CO2-rich gas at high pressure	9/16/1998	Grislingas
[14]	WO2019162236A1	Gas processing	2/20/2018	Rytter