ABB Statement of Non-Assertion of Pledged Patents Involving Fluoroketone

ABB is committed to providing technology and innovation to enable power and productivity for a better world. ABB takes many actions to promote innovation. As part of that commitment, ABB is continuously promoting innovation to pave the way for eco-efficient switchgear and to enable customers to lower their environmental impact.

Some of ABB's innovation includes the creation of certain ABB patents involving the application of alternate gas mixtures based on fluoroketone, which may be used as an alternative to sulfur hexaflouride (SF6) gas for both insulation and interruption in gas-insulated switchgear (GIS) applications. Fluoroketones are nonflammable and possess lower Global Warming Potentials (GWPs) than traditional gases such as SF6 or perfluorocarbons (PFCs), thereby providing for substantially lower environmental impact. To date, the new fluoroketone gas mixture is the only alternative to SF6 that has been successfully type tested during the development phase of the last three years, in accordance with the IEC standards and performance criteria, achieving a GWP of ≤ 1.

Today, we are announcing a new innovation initiative. ABB is pledging the free use of certain of its patents (including filed as well as issued patents and the counterparts of these patents in other countries) specifically in connection with the application of alternate gas mixtures based on fluoroketone in medium-voltage and high-voltage switchgear applications (also referred to as the "Field"), as further detailed below. This pledge will benefit developers, distributors and users who use one or more of the Pledged Patents in the Field. It is ABB's intent that this pledge be legally binding and enforceable by any medium-voltage and/or high-voltage switchgear application developer, distributor or user who uses one or more of the Pledged Patents, including the counterparts of these patents in other countries in the Field.

Our Pledge

ABB hereby commits to not assert any of the Pledged Patents listed below against the development, use or distribution of applications of alternate gas mixtures, based on fluoroketone in medium-voltage and high-voltage switchgear applications (Field).

Our "Pledged Patents" means those specific filed and issued patents listed below which may be supplemented from time to time, at the sole discretion of ABB. The term "medium-voltage and/or high-voltage switchgear applications" includes those applications having instrument transformers capable of using alternate gas mixtures in GIS applications and gas-insulated transmission lines (GIL).

The preceding Pledge is limited and does not apply to the development, use, distribution, or possible infringement of the Pledged Patents by another for any other purpose than that as stated above. The Pledge is also not an assurance, representation or guarantee that any of the Pledged Patents are suited for a particular use, application or improvement for an alternate gas mixture of a fluoroketone basis in the Field. ABB makes no representations or warranties that any activities performed by one under the Pledge and/or Pledged Patents will not infringe the intellectual property rights or patents of ABB or the intellectual property rights of a third party, or that ABB will add additional patents to the list of Pledged Patents. Except as expressly stated in the Pledge, ABB grants no other rights, whether by license, implication, estoppel, or otherwise.

Though ABB is committed to the Pledge, the commitment not to assert any of the Pledged Patents and their associated counterparts excludes opportunistic use or assertion of patents that may restrict the use of fluoroketone-based gas mixtures in the Field. Therefore, in compliance with the laws, the Patent Pledge is limited accordingly. ABB reserves the right, at its sole discretion and on the basis of the abovementioned purpose, to dismiss its commitment to the Pledge and exercise its rights in relation to any party filing a lawsuit or otherwise asserting any intellectual property rights or legal challenges that may restrict the use of fluoroketone-based gas mixtures in the Field.

List of Pledged Patents

Country	**Publication/Patent Number** ***Application Number**	**Title**
(WO)	*(PCT/EP 2009/057294)*	*(Dielectric insulation medium)*
AE	AE 12292011*	Dielectric insulation medium
AP	AP 201206061 A0	Dielectric insulation medium
AU	AU 2009347593	Dielectric insulation medium
BE	EP 2441075 B1	Dielectric insulation medium
BR	BR PI09248625*	Dielectric insulation medium
BY	BY 020226	Dielectric insulation medium
CA	CA 2764874 A1	Dielectric insulation medium
CH	EP 2441075 B1	Dielectric insulation medium
CL	CL 31332011*	Dielectric insulation medium
CN	CN 102460604 A	Dielectric insulation medium
CZ	EP 2441075 B1	Dielectric insulation medium
DE	DE 102009061097.9*	Dielectric insulation medium
DE	DE 202009018213 U1	Dielectric insulation medium
DE	DE 112009002045 T5	Dielectric insulation medium
DE	DE 202009018239 U1	Dielectric insulation medium
DE	EP 2441075 B1	Dielectric insulation medium
DK	EP 2441075 B1	Dielectric insulation medium
EA	EA 020226 B1	Dielectric insulation medium
EG	EG 26677 A	Dielectric insulation medium
EP	EP 2441075 B1	Dielectric insulation medium

ES	EP 2441075 B1	Dielectric insulation medium
FI	EP 2441075 B1	Dielectric insulation medium
FR	EP 2441075 B1	Dielectric insulation medium
GB	EP 2441075 B1	Dielectric insulation medium
HK	HK 1170842	Dielectric insulation medium
HU	EP 2441075 B1	Dielectric insulation medium
IE	EP 2441075 B1	Dielectric insulation medium
IL	IL 216685 A0	Dielectric insulation medium
IN	IN 09272CN2011 A	Dielectric insulation medium
IT	EP 2441075 B1	Dielectric insulation medium
JP	JP 2012529732 A	Dielectric insulation medium
KR	KR 101433436 B1	Dielectric insulation medium
KZ	EA 020226 B1	Dielectric insulation medium
MX	MX 305362 B	Dielectric insulation medium
MY	MY 152445 A	Dielectric insulation medium
NL	EP 2441075 B1	Dielectric insulation medium
NO	EP 2441075 B1	Dielectric insulation medium
NZ	NZ 596784 A	Dielectric insulation medium
OA	OA 15805	Dielectric insulation medium
RU	RU 2504033 C2	Dielectric insulation medium
SE	EP 2441075 B1	Dielectric insulation medium
SG	SG 176702 A1	Dielectric insulation medium
UA	UA 105668	Dielectric insulation medium
US	US 8704095 B2	Dielectric insulation medium
US	US 20140175341 A1	Dielectric insulation medium
VN	VN 1201103444*	Dielectric insulation medium
ZA	ZA 201108955	Dielectric insulation medium

Country	**Publication/Patent Number *Application Number**	**Title**
(WO)	*(PCT/EP 2009/062640)*	*(Encapsulated switchgear)*
AE	AE 12302011*	Encapsulated switchgear
AU	AU 2009347600 B2	Encapsulated switchgear
BE	EP 2443632 B1	Encapsulated switchgear
BR	BR PI09248579*	Encapsulated switchgear
CA	CA 2765270 A1	Encapsulated switchgear
CH	EP 2443632 B1	Encapsulated switchgear
CN	CN 102460605 B	Encapsulated switchgear
CN	CN 201510327609.4*	
CZ	EP 2443632 B1	Encapsulated switchgear
DE	DE 112009004905 T5	Encapsulated switchgear
DE	DE 202009018214 U1	Encapsulated switchgear
DE	EP 2443632 B1	Encapsulated switchgear
DK	EP 2443632 B1	Encapsulated switchgear
EP	EP 2443632 B1	Encapsulated switchgear
ES	EP 2443632 B1	Encapsulated switchgear
FI	EP 2443632 B1	Encapsulated switchgear
FR	EP 2443632 B1	Encapsulated switchgear
GB	EP 2443632 B1	Encapsulated switchgear
HK	HK 1170841	Encapsulated switchgear
HU	EP 2443632 B1	Encapsulated switchgear
IE	EP 2443632 B1	Encapsulated switchgear
IN	IN 09274CN2011 A	Encapsulated switchgear
IT	EP 2443632 B1	Encapsulated switchgear
JP	JP 2012529882 A	Encapsulated switchgear
KR	KR 2012037391 A	Encapsulated switchgear
MX	MX 308068 B	Encapsulated switchgear

MY	MY152445 A	Encapsulated switchgear
NL	EP 2443632 B1	Encapsulated switchgear
NO	EP 2443632 B1	Encapsulated switchgear
NZ	NZ 596790 A	Encapsulated switchgear
RU	RU 2505894 C2	Encapsulated switchgear
SE	EP 2443632 B1	Encapsulated switchgear
SG	SG 176703 A1	Encapsulated switchgear
US	US 8680421 B2	Encapsulated switchgear
US	US 20140151202 A1	Encapsulated switchgear
VN	VN 1201103441*	Encapsulated switchgear
ZA	ZA 201108956	Encapsulated switchgear

Country	**Publication/Patent Number *Application Number**	**Title**
(WO)	*(PCT/EP 201058317)*	*(Fluorinated ketones as high-voltage insulating medium)*
AE	AE 12772011*	Fluorinated ketones as high-voltage insulating medium
AP	AP 201206076 A0	Fluorinated ketones as high-voltage insulating medium
AU	AU 2010261904 B	Fluorinated ketones as high-voltage insulating medium
BR	BR PI1014242-8*	Fluorinated ketones as high-voltage insulating medium
CA	CA2765459 A1	Fluorinated ketones as high-voltage insulating medium
CL	CL 31972011*	Fluorinated ketones as high-voltage insulating medium
CN	CN 102742103 A	Fluorinated ketones as high-voltage insulating medium
DE	DE 102009025204 C5	Fluorinated ketones as high-voltage insulating medium
DE	DE 112010002583 T5	Fluorinated ketones as high-voltage insulating medium

DE	DE 202009009305 U1	Fluorinated ketones as high-voltage insulating medium
EA	EA 201270025 A1	Fluorinated ketones as high-voltage insulating medium
EG	EG PCT21132011*	Fluorinated ketones as high-voltage insulating medium
EP	EP 2443712 A1	Fluorinated ketones as high-voltage insulating medium
HK	HK 1177333A	Fluorinated ketones as high-voltage insulating medium
IL	IL 216882 A0	Fluorinated ketones as high-voltage insulating medium
IN	IN 09439CN2011	Fluorinated ketones as high-voltage insulating medium
JP	JP2012530483 A	Fluorinated ketones as high-voltage insulating medium
KR	KR 1020120034108	Fluorinated ketones as high-voltage insulating medium
MX	MX 2011013267 A	Fluorinated ketones as high-voltage insulating medium
MY	MY PI2011006057*	Fluorinated ketones as high-voltage insulating medium
NZ	NZ 596978 A	Fluorinated ketones as high-voltage insulating medium
OA	OA 15807	Fluorinated ketones as high-voltage insulating medium
RU	RU 2545086 C2	Fluorinated ketones as high-voltage insulating medium
SG	SG 177266 A1	Fluorinated ketones as high-voltage insulating medium
TH	TH 118652	Fluorinated ketones as high-voltage insulating medium
UA	UA 107933 C2	Fluorinated ketones as high-voltage insulating medium
US	US 8916059 B2	Fluorinated ketones as high-voltage insulating medium
VN	VN 1201200142*	Fluorinated ketones as high-voltage insulating medium

ZA	ZA 201109038	Fluorinated ketones as high-voltage insulating medium

Country	**Publication/Patent Number *Application Number**	**Title**
(WO)	*(PCT/EP 2011072606)*	
AR	AR 084275	Dielectric insulation medium
AU	AU 2011344232	Dielectric insulation medium
BR	BR 112013014776-8*	Dielectric insulation medium
CA	CA 2821156 A1	Dielectric insulation medium
CN	CN103415895 A	Dielectric insulation medium
EP	EP2652752 A0	Dielectric insulation medium
GC	GC 19975/2011*	Dielectric insulation medium
HK	HK 1190498A	Dielectric insulation medium
IN	IN 4456CN2013	Dielectric insulation medium
JP	JP 2014506376 A	Dielectric insulation medium
KR	KR 1020130128434	Dielectric insulation medium
MX	MX 2013006751 A	Dielectric insulation medium
RU	RU 2013132216 A	Dielectric insulation medium
TW	TW 201236026 A1	Dielectric insulation medium
US	US 8822870 B2	Dielectric insulation medium
VE	VE 16522011*	Dielectric insulation medium

Country	**Publication/Patent Number *Application Number**	**Title**
DE	DE 202014003243 U1	Device for the generation, distribution and / or use electrical power, or a component of such a compound.
CN	CN 103956673 A	Device for the generation, distribution and / or use electrical power, or a component of such a compound.