

Search history

Search 1: SFT=(vinylidene chloride interpolymers and ethylene-acrylate interpolymers) (Results 1)
Search 2: SFT=(vinylidene chloride interpolymers) (Results 107)
Search 3: SFT=(vinylidene chloride interpolymers) and IC=(B65D65/40) (Results 6)

1) Family number: 30011049 (US6706389B)

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Title: FOG-RESISTANT PACKAGING FILM

Abstract: A packaging film includes a heat sealable layer coated with one or more antifogging agents disposed in a binder, an antiblocking agent, and no more than about 800 ppm slip agent. The heat sealable layer includes a polymer that includes mer units derived from ethylene while the binder includes a polymer that includes mer units derived from an ester of (meth)acrylic acid and/or vinyl acetate monomers. The antiblocking agent can be in any layer of the film where it provides the desired effect. Such a film, as well as packages made therefrom, can be used to package a variety of products, having particular utility with respect to moist products.

Classifications:

International (IPC 8-9): B32B27/08 B32B27/18 B32B27/32 B65D65/40 C08J5/18 C08J7/04 C09D131/04 C09D133/08 C09D133/10 C09K3/18 (Advanced/Invention);

B32B27/08 B32B27/32 B65D65/40 C08J5/18 C09D133/08 C09D133/10 C09K3/18 (Advanced/Non-invention);
B32B27/08 B32B27/18 B32B27/32 B65D65/40 C08J5/18 C08J7/00 C09D131/00 C09D133/08 C09D133/10 C09K3/18 (Core/Invention)

International (IPC 1-7): B32B27/08 B32B27/18 B32B27/32 B32B27/8 B65D65/40 C08J5/18 C08J7/04 C08L23/00 C09D131/04 C09D133/08 C09D133/10 C09J7/02 C09K3/18

CPC: C08J7/04 C08J2323/08 Y10T428/2826 Y10T428/31909 Y10T428/31913 Y10T428/31928 B32B27/16 B32B38/0008 B32B2307/31 B32B2307/746 B32B2310/14 B32B2439/70 B32B27/18 B32B27/08

European: B32B27/08 B32B27/18 C08J7/04 M08J323/08

US: 428/349 428/515 428/516 428/520

Family:

Publication number	Publication date	Application number	Application date
AT256551 E	20040115	AT19980934189T	19980630
AU199883771 A1	19990119	AU19980083771	19980630
AU734486 B2	20010614	AU19980083771	19980630
BRPI9810375 A	20000905	BR1998PI10375	19980630
CA2295728 AA	19991229	CA19982295728	19980630
CA2295728 C	20060328	CA19982295728	19980630
DE69820627 D1	20040129	DE19986020627	19980630
DE69820627 T2	20040916	DE19986020627T	19980630
EP0993371 A1	20000419	EP19980934189	19980630
EP0993371 B1	20031217	EP19980934189	19980630
ES2213909 T3	20040901	ES19980934189T	19980630
JP2002510267 T2	20020402	JP19990505822T	19980630
KR20010020564 A	20010315	KR19997012455	19980630
NZ501593 A	20010525	NZ19980501593	19980630
US6706389 BA	20040316	US20000446445	20000612
WO9900250 A1	19990107	WO1998US13407	19980630

Priority:

US19970051242P 19970630 WO1998US13407 19980630 US20000446445 20000612

Probable Assignee: CRYOVAC INC

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Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

2) Family number: 30544099 (US2005255263A)

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Title: VINYLIDENE CHLORIDE POLYMER COMPOSITIONS AND FOOD CASINGS MADE THEREFROM

Abstract: The present invention is a poly(vinylidene chloride) interpolymers composition comprising (1) a copolymer of an alpha olefin and an alkyl ester of an unsaturated carboxylic acid and (2) an interpolymers of vinylidene chloride and vinyl chloride, the copolymer being present in an amount effective to improve meat adhesion of a food casing made from the interpolymers composition having the copolymer as compared with a composition having the same proportions of components as the interpolymers composition but without the added copolymer (hereinafter effective amount). Preferably, the copolymer

comprises ethylene and at least one alkyl ester of an unsaturated carboxylic acid. The invention is also a process for preparing a thermoplastic food casing which comprises adding an effective amount of a copolymer of an alpha olefin and an alkyl ester of an unsaturated carboxylic acid to an interpolymers of vinylidene chloride and vinyl chloride to improve meat adhesion of the food casing. Additionally, the invention is a film comprising an interpolymers of vinylidene chloride and vinyl chloride and an effective amount of a copolymer of an alpha olefin and an alkyl ester of an unsaturated carboxylic acid. The film is preferably used in applications for contacting meat. Additionally, the invention is a combination of a film comprising an interpolymers of vinylidene chloride and vinyl chloride and an effective amount of a copolymer of an alpha olefin and an alkyl ester of an unsaturated carboxylic acid and, adjacent thereto or in contact therewith, a fatty substance, preferably a meat having a fat content, meat product having fat content, or other food having a fat content. In another aspect, the invention is a package useful for meats or other fatty substances comprising an interpolymers of vinylidene chloride and vinyl chloride and an effective amount of a copolymer of an alpha olefin and an alkyl ester of an unsaturated carboxylic acid wherein the package is designed for contact of interpolymers of vinylidene chloride with the meat or fatty substance. In another aspect, the invention is a sausage casing having a film comprising an interpolymers of vinylidene chloride and vinyl chloride and an effective amount of a copolymer of an alpha olefin and an alkyl ester of an unsaturated carboxylic acid. In yet another aspect, the invention is the use of a vinylidene chloride interpolymers composition comprising and interpolymers of vinylidene chloride and vinyl chloride and an effective amount of at least one copolymer of an alpha olefin and an alkyl ester of an ethylenically unsaturated carboxylic acid in a composition suitable for making a film, the resulting film, a molded article, a package, in each case preferably suitable for contacting or containing a fatty substance or food, preferably in a sausage casing.

Classifications:

International (IPC 8-9): A22C13/00 B32B27/32 B65D65/40 C08J5/18 C08L27/08 C08L27/16 (Advanced/Invention); C08L23/08 (Advanced/Non-invention)

International (IPC 1-7): A22C13/00 B32B27/32 B65D65/40 C08J5/18 C08L27/08

CPC: Y10T428/1324 A22C13/0013 A22C2013/0059 C08L23/0869 C08L27/16

European: A22C13/00D C08L27/16 K22C13/00Q M08L23/08C3

US: 428/34.8 428/34.800P

Family:

Publication number	Publication date	Application number	Application date
AU2003279260 AA	20040513	AU20030279260	20031014
BRPI0314903 A	20050802	BR2003PI14903	20031014
CN1292024 C	20061227	CN200380101994	20031014
CN1708551 A	20051214	CN200380101994	20031014
EP1556439 A2	20050727	EP20030770744	20031014
US2005255263 AA	20051117	US20030529052	20031014
WO04037920 A2	20040506	WO2003US32395	20031014
WO04037920 A3	20040715	WO2003US32395	20031014

Priority:

US20020421029P 20021024 US20030529052 20031014 WO2003US32395 20031014
US20050529052 20050324

Probable Assignee: DOW GLOBAL TECHNOLOGIES INC

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Agent(s): THE DOW CHEMICAL COMPANY; DOW CHEMICAL CO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ YU ZA ZM ZW

3) Family number: 32354912 (US2008274245A)

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Title: MULTICOMPONENT STRUCTURES HAVING IMPROVED ADHESION BETWEEN COMPONENTS

Abstract: The present invention includes a multicomponent structure comprising at least two components having a tie layer or adhesive layer directly between them, the tie layer comprising at least one olefin unsaturated ester copolymer and at least one photoinitiator and optionally a crosslinking enhancer. The tie layer is preferably irradiated with sufficient actinic radiation to result in increased interlayer adhesion strength between the two components as compared with the interlayer adhesion strength before treatment with the actinic radiation or between the components having a tie layer of the same composition except without the added photoinitiator or crosslinking enhancer. Without the photoinitiator, optionally crosslinking enhancer, and radiation the interlayer adhesion of the components is preferably less than 55 N/m. At least one of the components (first component or layer) preferably comprises a halopolymer, more preferably vinylidene chloride polymer, most preferably at least a majority of a vinyl idene chloride polymer. In another embodiment, at least one component exhibits interlayer adhesion strength similar to vinylidene chloride polymers. The structure optionally is or comprises such structures as a multilayer film, bag, or package, a lined or composite pipe, or other structure having more than one component. The tie layer is advantageously irradiated with an amount of UV light effective to increase the adhesion strength between the first and second components.

Classifications:

International (IPC 8-9): B29C47/08 B29C65/14 B32B1/08 B32B27/30 B32B27/36 B32B7/10 B32B7/12 B65D65/40 B65D81/34 C08J5/00 C08J5/12 (Advanced/Invention);

B29C47/08 B29C65/14 B32B1/00 B32B27/30 B32B27/36 B32B7/10 B32B7/12 B65D65/40 B65D81/34 C08J5/00 C08J5/12 (Core/Invention)

International (IPC 1-7): B32B27/30 B32B27/36 B32B7/12 B65D65/40 C08J5/00

CPC: Y10T428/1307 Y10T428/1321 Y10T428/1352 Y10T428/1362 C08J5/12 Y10T428/31616 Y10T428/31667 Y10T428/31681 Y10T428/31797 B32B27/08 B32B27/304 B32B2310/0837 B32B2439/00 B32B7/12 B32B27/30

European: B32B27/30 B32B7/12 C08J5/12

US: 156/275.7 264/473 426/394 428/34.3 428/34.7 428/35.7 428/36.1 428/430 428/451 428/458 428/483

Family:

Publication number	Publication date	Application number	Application date
BRPI0508796 A	20070904	BR2005PI08796	20050405
BRPI0508796 B1	20160809	BR2005PI08796	20050405
CA2561347 AA	20060926	CA20052561347	20050405
CN1964844 A	20070516	CN200580018690	20050405
EP1735154 A1	20061227	EP20050732281	20050405

EP1735154 B1	20170517	EP20050732281	20050405
ES2633237 T3	20170920	ES20050732281T	20050405
IN03726CN2006 A	20070615	IN2006CN03726	20061009
RU2006139129 A	20080520	RU20060139129	20050405
RU2393096 C2	20100627	RU20060139129	20050405
US2008274245 AA	20081106	US20050547486	20050405
WO05100018 A1	20051027	WO2005US11824	20050405
WO05100018 C1	20061228	WO2005US11824	20050405

Priority:

US20040560531 20040408 US20040560531P 20040408 EP20050732281 20050405
US20050547486 20050405 WO2005US11824 20050405 US20060547486 20060929

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Assignee(s): (std): DAU GLOBAL TEKNOLODZHIZ INK ; DOW GLOBAL TECHNOLOGIES INC ; DOW GLOBAL TECHNOLOGIES LLC ; DOW GLOGAL TECHNOLOGIES INC ; LEE ERIC K ; NAUMOVITZ JOHN A ; LADIKA MLADEN ; LEE ERIC K C

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Inventor(s): MLADEN LADIKA ; ERIC K LEE ; JOHN A NAUMOVITZ ; LEE ERIC KC

Agent(s): SMART AND BIGGAR; BECK GREENER; ELZABURU SLP ELZABURU SLP; THE DOW CHEMICAL COMPANY; DOW CHEMICAL CO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

4) Family number: 43347599 (US2010272936A)

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Title: MULTILAYER STRUCTURE FOR THE MANUFACTURE OF PACKAGING AND PACKAGING THEREOF

Abstract: A multilayer structure comprises at least one barrier layer comprising at least one vinylidene chloride polymer, at least one UV protecting layer, and at least one reflective layer wherein none of these layers also serve as a sealing layer. The multilayer structure is preferably a film, more preferably in the form of a pouch, preferably for packaging flowable product, especially milk. When used as a milk pouch, the structure is more effective at protecting milk from deterioration at ambient temperature and humidity than is a similar multilayer structure having an ethylene vinyl alcohol barrier layer. The multilayer structure preferably has more than one reflective layers and is preferably in the form of a pillow pouch. The invention also includes a process comprising steps of (a) supplying at least one first composition comprising at least one vinylidene chloride polymer, at least one second composition comprising UV absorbing pigment or agent, and at least one third composition comprising at least one light reflective material, to a coextrusion die and (b) coextruding the first, second and third compositions as layers referred to herein after as the barrier layer, UV protecting layer, and reflective layer respectively.

Classifications:

International (ipc 8-9): B29C47/04 B29C47/06 B32B1/08 B32B27/00 B32B27/08 B32B27/20 B32B27/30 B32B27/32 B32B7/02 B65D65/40 B65D75/26 C09J7/00 (Advanced/Invention); B32B27/20 B32B27/30 B32B27/32 (Core/Invention)

International (ipc 1-7): B32B27/20

CPC: Y10T428/1341 Y10T428/1379 Y10T428/239 Y10T428/24942 Y10T428/2848 B32B27/08 B32B27/20 B32B27/304 B32B27/306 B32B27/308 B32B27/32 B32B2255/10 B32B2264/102 B32B2264/105 B32B2270/00 B32B2307/4026 B32B2307/416 B32B2307/71 B32B2307/7244 B32B2307/75 B32B2439/06 B32B2439/46 Y10T428/31909 Y10T428/3192 Y10T428/31928 Y10T428/31935

European: B32B27/08

US: 264/173.13 264/173.130S 428/212 428/212S 428/35.4 428/35.400P 428/354 428/354S 428/36.6 428/36.600S 428/515 428/515S 428/518 428/518S 428/520 428/520S 428/522 428/522S 428/76 428/76S

Family:

Publication number	Publication date	Application number	Application date
CN101873930 A	20101027	CN200880117803	20081121
EP2214903 A1	20100811	EP20080853542	20081121
IN03089CN2010 A	20101112	IN2010CN03089	20100525
IN294453 B	20180323	IN2010CN03089	20100525
JP2011504827 T2	20110217	JP20100536071T	20081121
JP5580208 B2	20140827	JP20100536071T	20081121
RU2010126109 A	20120110	RU20100126109	20081121
RU2505411 C2	20140127	RU20100126109	20081121
US2010272936 AA	20101028	US20080742537	20081121
WO09070494 A1	20090604	WO2008US84264	20081121

Priority:

US20070990379P 20071127 US20080742537 20081121 WO2008US84264 20081121

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): DOW GLOBAL TECHNOLOGIES INC ; DOW GLOBAL TECHNOLOGIES LLC ; HERNANDEZ CLAUDIA ; JENKINS STEVEN R ; RUIZ CARLOS E ; WHITE MICHAEL D ; DAU GLOBAL TEKNOLODZHIZ EHLEHLSI

Inventor(s): (std): CLAUDIA HERNANDEZ ; DZHENKINS STIVEN R ; EHRNANDES KLAUDIA ; HERNANDEZ CLAUDIA ; JENKINS STEVEN R ; RUIS KARLOS EH ; RUIZ CARLOS E ; UAJT MAJKL D ; WHITE MICHAEL D

Inventor(s): WHITE MICHAEL ; RUIZ CARLOS ; JENKINS STEVEN

Agent(s): HULL JOHN PHILIP; AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; THE DOW CHEMICAL COMPANY; DOW CHEMICAL CO; MOHAMEDULLA R SALEHA

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: VINYLIDENE CHLORIDE COPOLYMER COMPOSITION FOR BARRIER FILM

Abstract: The present disclosure is directed to a composition comprising (a) a vinylidene chloride/methyl acrylate interpolymer having greater than 6 wt percent methyl acrylate mer units in the interpolymer, (b) greater than 6 wt percent of an epoxy plasticizer; and (c) less than 4 wt percent of an acrylate polymer. The composition exhibits a crystallization time greater than 25 minutes to crystallization at 35 degrees centigrade. Films made from the present composition show improved processability and find advantageous application as permeable barrier film for food packaging, for specialty food packaging, and for gassy cheese.

Classifications:

International (IPC 8-9): B32B27/08 B32B27/22 B32B27/30 B65D65/02 B65D65/40 C08K5/1515 C08L27/08 C08L33/04 C08L33/06 C08L33/08 C08L63/00 (Advanced/Invention); C08K5/1515 C08L33/06 (Advanced/Non-invention)

CPC: B32B27/08 B32B27/22 B32B27/306 B32B2250/24 B32B2250/40 B65D81/26 B65D85/76 B32B27/304 B32B2250/03 B32B2270/00 C08L27/08 B32B27/308 B32B2307/724 B32B2439/70 Y10T428/31935 C08K5/1515 C08L33/06 C08L33/12 C08L33/08 C08L63/00

US: 428/522 524/114

Family:

Publication number	Publication date	Application number	Application date
AR092904 AA	20150506	AR2013P103603	20131004
BR112015007257 A2	20170704	BR20151107257	20130315
CN104718077 A	20150617	CN201380052034	20130315
CN104718077 B	20170623	CN201380052034	20130315
EP2903828 A1	20150812	EP20130714788	20130315
JP2015530473 T2	20151015	JP20150535648T	20130315
JP2018080340 A2	20180524	JP20170239784	20171214
JP6306026 B2	20180404	JP20150535648T	20130315
RU2015116908 A	20161127	RU20150116908	20130315
RU2637321 C2	20171204	RU20150116908	20130315
US2015240064 AA	20150827	US20130432950	20130315
WO14055126 A1	20140410	WO2013US32334	20130315

Priority:

US20120710412P 20121005 JP20150535648T 20130315 WO2013US32334 20130315
US20130432950 20130315

Probable Assignee: DOW GLOBAL TECHNOLOGIES LLC

Assignee(s): (std): DAU GLOBAL TEKNOLODZHIZ ELELSI ; DOW GLOBAL TECH LLC ; DOW GLOBAL TECHNOLOGIES INC ; DOW GLOBAL TECHNOLOGIES LLC

Inventor(s): (std): BEJER DUG ; BEYER DOUG ; BEYER DOUGLAS E ; DOUG BEYER ; DZHENKINS STIV ; JENKINS STEVE ; JENKINS STEVEN R ; STEVE JENKINS

Agent(s): BOULT WADE TENNANT; OHGA SHINJI; KOBAYASHI HIROSHI; OHMORI NORIO; KATAYAMA EIJI; OOO YURIDICHESKAYA GORODISSKIJ I PARTNER Y FA; PLOTECHER GARY R ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: A COMPOSITION, A FILM MADE THEREFROM AND AN ARTICLE INCLUDING THE FILM

Abstract: A polymer blend including a vinylidene chloride interpolymer; an ethylene-acrylate interpolymer; and optionally one or more additives selected from the group consisting of stabilizers, plasticizers, and processing aids is provided. Also provided is an extruded film and a packaging or container which includes the film.

Classifications:

International (IPC 8-9): B65D65/40 C08J5/18 C08L23/08 C08L27/08 C08L33/10 (Advanced/Invention); C08L23/08 (Advanced/Non-invention)

International (IPC 1-7): B65D65/40 C08J5/18 C08L23/08 C08L27/08

CPC: C08L27/08 C08J5/18 C08J2327/08 B32B27/08 B32B27/22 B32B27/304 B32B27/306 B32B27/308 B32B2270/00 B32B2307/558 B32B2307/5825 B32B2307/7244 B32B2439/00 C08L33/10 C08J2423/08 C08L2205/03 C08L2203/16

Family:

Publication number	Publication date	Application number	Application date
BR112017002434 A2	20171128	BR20171102434	20150810
CN106574094 A	20170419	CN201580043251	20150810
CO20170002300 A2	20170609	CO20170002300	20170308
EP3180259 A1	20170621	EP20150753567	20150810
ID201802506 A	20180316	ID2017AID01549	20150810
IN201717007628 A	20180202	IN201717007628	20170303
JP2017526772 T2	20170914	JP20170506862T	20150810
MX2017001623 A1	20170525	MX20170001623	20150810
US2017226334 AA	20170810	US20150503011	20150810
WO16025362 A1	20160218	WO2015US44415	20150810

Priority:

US20140037858P 20140815 US20140038928P 20140819 US20150503011 20150810
WO2015US44415 20150810

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STEVEN R JENKINS

Agent(s): JOSE ANDRES RINCON USCATEGUI; BOULT WADE TENNANT; ADOLF MARTUA PANGGABEAN;
KOBAYASHI HIROSHI; KATAYAMA EIJI; OHMORI NORIO; FRIEDRICH VALERIE K

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR
CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID
IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN
MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG
SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW