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				ФРАНЦИЯ
	Франция в.з. № 2693185-A1 МПК B32B-015/08; F16C-033/14	Заявитель FRANCE GRIGNOTAGE З. № FR008411 Пр-т 03 июля 1992 Опубл. 07 января 1994 Аналоги WO9401029-A1; FR2693185-A1; EP602221-A1; JP6510692-W	1.	NON-STICK SURFACE COATING, E.G. FOR HEAT EXCHANGERS AND COOKING UTENSILS - COMPRISES PTFE FILLING PORES OF POROUS QUASI-CRYSTALLINE ALLOY GRID ADHERED TO BASE MATERIAL WHERE FILLING IS NOT FLUSH WITH GRID SURFACE. A non-stick coating for surfaces e.g. of cooking utensils, comprises a combination of an alloy base (2) of a porous quasi-crystalline grid perfectly adhered to the base (1) e.g. of aluminium, copper or steel, and PTFE polymer filling the pores of the quasi-crystalline layer (2), but not so that the PTFE is flush with the surface but so that it is slightly withdrawn presenting a series of concave (7) depressions. Also claimed are heat exchange surfaces, cooking utensils and tribological surfaces using the coating. USE/ADVANTAGE - Non stick coating of domestic or industrial cooking utensils, hot plates, low friction surfaces. Improves the compromise between durability, adhesion, heat conduction and coating appearance.
	Франция з. № 2773175-A1 МПК C23C-014/06; C23C-016/08; C23C-016/28; C23C-016/30; G02B-001/10; C23C-014/00; C23C-014/12; G02B-001/11; G02B-005/08	Заявитель COMMISSARIAT ENERGIE ATOMIQUE з. № FR016793 пр-т 31 декабря 1997 опубл. 02 июля 1999 Аналоги WO9935299-A1 EP963457-A1 JP2001515542-W	2.	FORMING LAYERS OF FLUORINE-CONTAINING COMPOUNDS BY VACUUM DEPOSITION. NOVELTY - During the deposition of layers of fluorine compounds under vacuum, fluorine and a reductive chemical species are introduced into a vacuum chamber to allow a double chemical reaction of (a) reduction of the fluorine compounds which have been partially oxidised due to contamination with oxygen and (b) subsequent fluorination of these. USE - The F-containing deposited layers are useful in optical applications for use e.g. as mirrors, trichroic mirrors, spectral filters, anti-reflective coatings and protective coatings to protect optical devices against corrosive atmospheres, intense laser beams, etc. ADVANTAGE - The introduction into the vacuum chamber of fluorine and a reductive chemical species causes reduction of the fluorine compounds which have been partially oxidised due to contamination with oxygen, and subsequent fluorination of these.DETAILED DESCRIPTION - Process for forming at least one layer of a fluorine-containing compound by deposition under vacuum in which simultaneously with the vacuum deposition, at least one reductive chemical species and elementary, molecular or bound fluorine are also generated in or introduced into the gas phase to accomplish fluorination of the layer of the fluorine-containing compound during its deposition. INDEPENDENT CLAIMS are also included for optical devices comprising, optionally on a substrate, a layer of a fluorine-containing compound as described or a stack of superposed layers. DESCRIPTION OF DRAWING(S) - The figure shows a graph of the influence of the deposition of fluorine-containing compositions on transparency.
	ФРАНЦИЯ з. № 2806076-A1 МПК B05D-007/24; C03C-017/34; B32B-027/06; B32B-007/02; C03C-017/38; C03C- 017/42	Заявитель SAINT-GOBAIN GLASS FRANCE; SAINT-GOBAIN VITRAGE; GANDON C з. № FR002955 пр-т 08 марта 2000 опубл.14 сентября 2001 Аналоги WO200166481-A1 EP1261557-A1 US2003072932-A1	3.	TRANSPARENT SUBSTRATE WITH POLYMER COATING, FOR USE IN PRODUCTION OF GLASSWORK, MIRRORS AND SCREENS, HAS AT LEAST ONE OF ITS SURFACES COATED WITH VACUUM-DEPOSITED POLYMER LAYER. A substrate made of glass, silica, silicon, vitro-ceramic or organic polymer has at least one of its surfaces coated with vacuum-deposited polymer layer, over adhesion pre-coating of organic or organo-mineral type, preferably also vacuum deposited. USE - In the production of monolithic, duplex or multiplex glasswork, facing panels, mirrors or visual screens. DETAILED DESCRIPTION - Preferred Features: The layer can be deposited directly on the substrate or on an intermediate coating comprising one or more mineral layers of metal oxide, metal nitride, metal, or silicon derivatives of oxide, oxynitride, oxycarbide or nitride type. The thickness of the polymer layer (5 nm-5 mum, preferably 10-200 nm) is at least 5 times, and preferably at least 10 times of that of adhesion pre-coat layer (0.2-10 nm, preferably 0.5-2 nm). The polymer layer and pre-coat adhesion layer are preferably

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		JP2003529462-W		essentially transparent and may electric, pyro-electric or piezo-electric function, or electrochemical as in electro-chrome systems, or may together form anti-solar, anti- reflective, decorative, electric or electrochemical surface layer, or hydrophobic, hydrophilic (anti-fog), oleophilic, lubricant or oleophobic coating. INDEPENDENT CLAIMS are also included for the following: (i) the production of the above coated substrate, where an adhesion pre-coat and polymer layer are vacuum-deposited in sequence, using same production line, comprising (a) injecting precursors of adhesion pre-coat onto substrate, in vapor form, (b) injecting monomer/prepolymer precursors of polymeric layer onto substrate, in vapor form, and (c) polymerization/crosslinking of monomer/prepolymer of polymeric layer and at least partial reaction of monomer/prepolymer with precursor of pre-coat layer at interface between these two layers, under atmospheric pressure or under vacuum, especially using UV irradiation, electron bombardment or thermal treatment of infrared type; and (ii) the use of the substrate in the production of monolithic, duplex or multiplex glasswork, facing panels, mirrors or visual screens.
	ФРАНЦИЯ З.№ 2811999 МПК C 09 D 201/04	Заявитель AMOUROUX NICOLAS; ATOFINA З. № 0009474 Дата подачи 19.07.2000 Опубл. 25.01.2002	4.	Покрытие металлических поверхностей фторполимерами
	ФРАНЦИЯ В.з. № 2839729-A1 МПК C23C-018/50; C23C-028/00; C23F-013/00; C23F-017/00; C25D-003/12; C25D-003/22; C25D-003/56; C25D-015/02	Заявитель UNIV TOULOUSE III SABATIER PAUL MECAPROTEC IND MECAPROTEC IND SA З. № FR006042 Пр-т 16 мая 2002 Опубл. 21 ноября 2003	5.	CORROSION PROTECTION OF A STEEL OR ALUMINUM ALLOY SUBSTRATE INVOLVES COATING WITH A SINGLE PHASE ZINC ALLOY MATRIX CONTAINING DISPERSED PARTICLES SELECTED ACCORDING TO DESIRED TRIBOLOGICAL PROPERTIES. NOVELTY - Corrosion protection of a steel or aluminum sheet and imparting predetermined tribological properties involves depositing a composite coating of thickness above 3 microns on the substrate. The coating comprises at least one single-phase zinc-nickel (Zn-Ni) matrix containing dispersed particles selected according to the desired tribological properties. The Ni content of the matrix is 12-20%. USE - Corrosion protection of steel and aluminum alloy surfaces and imparting desired tribological properties to the surface. ADVANTAGE - Anticorrosion performance and mechanical properties imparted to a substrate surface are as good as those obtained by coating a steel substrate with chromium and better than those obtained by anodic oxidation of an aluminum alloy substrate. Similarly, lubricating properties imparted to the steel surface are equivalent to coating the substrate surface with cadmium. Since potentially harmful chromium and cadmium are not used, the process is environmentally advantageous.
	ФРАНЦИЯ В.з. № 2811860-A1 МПК A01D-034/73; A01G-003/04	Заявитель LAGARDE SAS З. № FR009499 Пр-т 19 июля 2000 Опубл. 25 января 2002	6.	AGRICULTURAL MACHINE CUTTING BLADE MADE FROM AN ALLOY STEEL AND INCORPORATING AN ANTI-ADHERENT POLYMER BASED COATING ON AT LEAST ITS CUTTING EDGE. - A cutting blade, for an agricultural machine incorporating a cutting edge, is made of alloyed steel and at least the cutting edge of the blade includes a polymer based anti-adherent coating, notably with a polytetrafluoroethylene base. USE - The cutting blade is for use in agricultural machines such as trimming and clipping machines incorporating rotating cutting blades.

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				ADVANTAGE - The materials used in the fabrication of the cutting blade confer an improved wear resistance and a better conservation of the cutting quality.
	ФРАНЦИЯ В.з. № 2743742-А1 МПК B24C-001/10	Заявитель SEB SA З. № FR000799 Пр-т 24 января 1996 Аналоги US5829116-A; EP786312-B1; DE69702271-E	7.	POROUS METAL SURFACE TREATMENT PROCESS, E.G. FOR COOKING UTENSILS - COMPRISES PROJECTING METAL BALLS AGAINST NON COATED SURFACE BY ULTRASONIC VIBRATION FOR SMOOTHING. Treating a metal surface, e.g. for cooking utensils, comprises: (i) forming a series of micro-cavities in the treated surface; (ii) partially applying a coating on the surface, e.g. PTFE; and (iii) smoothing the non coated surface by projecting small balls (7) on the surface. Also claimed is the manufacture of cooking utensils by treating a metal layer (1), providing a continuous coating (2) of PTFE on a first surface (1b) and a partial coating (3) which is decorative on the other surface (1a). ADVANTAGE - The process removes grooves, reduces porosity, and harden the surface, making it easier to clean
	ФРАНЦИЯ В.з. № 2123579-А МПК B44D-001/00; F27B-009/00	Заявитель AQUITAINE TOTAL ORGANICO SA З. № FR047505 Пр-т 31 декабря 1970	8.	PLASTIC COATED METAL - WITH SURFACES POLISHED BY POST-HEATING OF A FLUIDISED BED COATING. Metal items are coated on being preheated above the fusion temp. of a (thermoplastic) coating material dropped into a fluidised bed of plastic particles, and left until below the fusion temp., removed pref. by a magnetic hoist, and then conveyed through a tunnel oven where the plstic surface is briefly remelted to form a smooth surface. Pref. the polishing tunnel and/or conveyor is lined with glass or PTFE and uses infrared heaters. The objects may be supported by (graduated) magnetic fields to prevent distortion of the coating under the weight of the core. The coated items may be finally quenched in a water bath. No support or holder is in direct contact with the moulding during coating. Method produces a fused surface finish on items or parts having insufficient heat capacity to delay the chilling of a coating until surface tension has formed a smooth surface.