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1) Family number: 47490290 (US2005173425A)

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INSULATING MICROWAVE INTERACTIVE PACKAGING

Abstract: Source: US2005173425A The combination of insulating material with microwave interactive food packaging for enhanced cooking properties is disclosed. An insulating microwave packaging material (200) and a method of making the same are also disclosed. In one embodiment, the insulating microwave packaging material (200) is formed by bonding a microwave interactive material substrate (205) that creates sensible heat upon exposure to microwave energy to a second substrate (210) along bond lines (212) arranged in a pattern to form closed cells (214). Upon impingement of the insulating microwave packaging material (200) by microwave energy in a microwave oven, the closed cells (214) expand to form insulating pockets (216). One side of the insulating pocket (216) bulges and lofts above the opposite side. When a food product is situated on the insulating microwave packaging material (200), the insulating pockets (216) insulate the food product from the microwave oven environment.

Probable Assignee: GRAPHIC PACKAGING INT INC

Earliest Publication Date: 20030814

2) Family number: 24117096 (US2004095705A)

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PLASMA-TO-ELECTRIC POWER CONVERSION

Abstract: Source: US2004095705A This invention relates to technologies, including Direct ExB, Magnetohydrodynamic, and Plasmadynamic, for the conversion of plasma energy into electrical energy.

Probable Assignee: BRILLIANT LIGHT POWER INC

Earliest Publication Date: 20021031

3) Family number: 54271840 (US2013177737A)

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LOW SURFACE ENERGY TOUCH SCREENS, COATINGS, AND METHODS

Abstract: Source: US2013177737A Substrates, surfaces, assemblies, kits, compositions, and methods are provided for forming touch screens and other appliance surfaces exhibiting good hydrophobicity, oleophobicity, and abrasion resistance. Methods are provided for increasing a population density of hydroxyl groups on a touch surface of a touch screen substrate without affecting the compressive strength of the back surface. The treated touch surface of the substrate can then be coated with a coating that includes an organo-metallic and/or silane, for example, a fluorosilane such as a perfluoropolyether alkoxy silane. A substrate can retain its compressive resistance to breakage by impact applied to the touch surface while minimizing any decrease in compressive strength against impact against the touch surface. Examples of such substrates include touch screens for mobile and desktop electronic devices, components of 3D display devices, and components for electrowetting display devices.

Probable Assignee: CYTONIX LLC

Earliest Publication Date: 20130711

4) Family number: 30467656 (US3820894A)

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APPARATUS AND METHOD FOR PRODUCING HIGH REGISTRATION PHOTO MASKS

Abstract: Source: US3820894A A system is provided for producing high registration photo-optical masks. A control system generates signals to a step and repeat contact printing machine that exposes many prints of the master die images on a photographic film, where these prints have a high registration characteristic. Claims, 10 Drawing Figures

Probable Assignee: SAID MICRO COMPUTER INC BY SAI

Earliest Publication Date: 19720713

5) Family number: 15157032 (US4735513A)

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FLEXIBLE PACKAGING SHEETS

Abstract: Source: US4735513A A flexible sheet structure is described which comprises a base sheet having a **microwave** coupling layer, e.g. electrodeposited aluminum as an island covering a selected area of the sheet. The uncoated portions will not be heated and will not be damaged by **microwave** energy. The selectively located **microwave** coupling covered area transfers absorbed heat to a product by thermal conduction. In one form of the invention a flexible fibrous backing sheet such as paper is bonded to the base sheet to provide dimensional stability and prevent warping, shriveling, melting or other damage during **microwave** heating.

Probable Assignee: CONAGRA INC A DELAWARE CORPORATION

Earliest Publication Date: 19861217

6) Family number: 11792880 (US5391247A)

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HOT STAMPING GLASS

Abstract: Source: US5391247A A method for applying a decorative coating to glass and the resulting glass products.

Probable Assignee: DECO PATENTS INC

Earliest Publication Date: 19950221

7) Family number: 31142936 (EP0449643A1)

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FOOD PACKAGING.

Abstract: Source: EP0449643A1 The invention provides a food product comprising first and second nested **containers** (9,1), the first **container** being a closed **container** formed of a non-**metallic** (e.g. plastics) material capable of withstanding retorting conditions, the said first **container** being in the form of a dish and containing a food which has been subjected to cooking by retorting in the **container**; the second **container** being a closed **container** formed of a non-metallic (e.g. plastics) material capable of withstanding temperatures generated in a **microwave** oven, the said second **container** containing a dehydrated foodstuff. In particular, the first and second **containers** are in the form of a set of nested bowls, the outermost of the two bowls containing a pre-cooked dehydrated foodstuff such as instant rice or instant pasta, and the innermost of the two bowls containing a wet retorted foodstuff.

Probable Assignee: DALGETY SPILLERS FOODS

Earliest Publication Date: 19911002

8) Family number: 51940253 (US2012238035A)

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MULTICOLOR **MICROWAVE**-ACCELERATED METAL-ENHANCED FLUORESCENCE (M-MAMEF)

Abstract: Source: US2012238035A The present invention relates to the use of multiple different light emitting molecules that emit different and detectable emission signals to provide systems and methods to detect different target products in a single assay sample, wherein the different light emitting molecules are positioned an optimal distance from metallic particles thereby enhancing emissions. Preferably, the systems and methods further comprise use of either **microwave** or sonic energy to increase binding reactions, timing of such reactions within the assay sample and reduce background non-specific biological absorption.

Probable Assignee: GEDDES CHRIS D

Earliest Publication Date: 20120920

9) Family number: 30222191 (US2004059212A)

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APPARATUS AND METHOD FOR MEASURING BIOLOGIC PARAMETERS

Abstract: Source: US2004059212A Support structures for positioning sensors on a physiologic tunnel for measuring physical, chemical and biological parameters of the body and to produce an action according to the measured value of the parameters. The support structure includes a sensor fitted on the support structures using a special geometry for acquiring continuous and undisturbed data on the physiology of the body. Signals are transmitted to a remote station by wireless transmission such as by electromagnetic waves, radio waves, infrared, sound and the like or by being reported locally by audio or visual transmission. The physical and chemical parameters include brain function, metabolic function, hydrodynamic function, hydration status, levels of chemical compounds in the blood, and the like. The support structure includes patches, clips, eyeglasses, head mounted gear and the like, containing passive or active sensors positioned at the end of the tunnel with sensing systems positioned on and accessing a physiologic tunnel.

Probable Assignee: GEELUX HOLDINGS LTD

Earliest Publication Date: 20031231

10) Family number: 12102182 (US5277868A)

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SYRINGE DESTRUCTION DEVICE

Abstract: Source: US5277868A A simple to use, single quantity, syringe sterilization and destruction device is disclosed. A syringe is inserted into the device needle first by the operator. The device grips the syringe and holds it in place. The device heats the steel needle portion of a syringe to sterilize the needle portion. The heat also melts the steel-to-plastic fitting between the steel needle portion and the plastic barrel portion of the syringe. The plastic barrel portion separates from the heated needle portion of the syringe by force of gravity or by a light pulling force exerted by a pulling mechanism. The hole in the fitting is sealed by the molten plastic. Sealing the hole maintains the integrity of the plastic barrel/plunger **container** and prevents spillage of contaminated waste. The heated needle is bent into a spiral bundle so that no sharp portions protrude from the spiral bundle. The spiral bundle is deposited into a **container** for recycling or waste disposal. The plastic barrel/plunger portion is placed into a **microwave** oven and heated until sterile. In an alternate embodiment the barrel/plunger portion is heated in the **microwave** oven until the plastic barrel/plunger portion is melted. The needles and plastic barrel/plungers are now sterile and safe. Both the needle and barrel/plunger waste can be disposed of safely or recycled.

Probable Assignee: KEW IMPORT EXPORT INC

Earliest Publication Date: 19940111

SYSTEM FOR REMOVING NON-METALLIC FOREIGN MATTER IN MOLTEN METAL

Abstract: Source: US5429655A PCT No. PCT/JP92/00388 Sec. 371 Date Nov. 20, 1992 Sec. 102(e) Date Nov. 20, 1992 PCT Filed Mar. 27, 1992 PCT Pub. No. WO92/17295 PCT Pub. Date Oct. 15, 1992. An apparatus for removing non-metallic foreign matter in a molten steel includes a tundish and a coil device. The tundish is an intermediate **container** receiving the molten steel from a ladle and feeding a purified molten steel by removing the non-metallic foreign matter in the molten steel. For removing the non-metallic foreign matter, the tundish has a swirl flow bath and a floatation bath. In the circumference of the swirl flow bath of the tundish, a coil device is arranged for flowing the molten steel in the swirl flow bath in swirl fashion. The tundish and the coil device are formed separately and constructed for relative movement to each other. The molten steel in the swirl flow bath of the tundish is flown in swirl fashion in the horizontal direction by a magnetic field generated by the coil device. At this time, the molten steel forms a parabolic concaved surface. The non-metallic foreign matter in the molten steel is forcedly floated up on the parabolic surface portion of the molten steel, which is removed by an appropriate means. The molten steel thus purified flows into the floatation bath from the swirl flow bath. With the static flow in the floatation bath, the residual non-metallic foreign matter floats up. The purified molten steel is poured into the mold through the bottom of the floatation bath.

Probable Assignee: KAWASAKI STEEL A CORP OF JAPAN CORP

Earliest Publication Date: 19921015

METHOD OF MICROWAVE STERILIZING CANNED FOOD

Abstract: Source: US4400401A A method for canning food products in a non-metallic jar, utilizing a non-metallic jar lid and a none metallic enclosure enveloping the jar and lid and which is placed within a **microwave** oven for heating with a pressure control check valve for limiting the maximum pressure within the enclosure during heating and preventing entry of air during subsequent cooling of the enclosure and food product.

Probable Assignee: CALIFORNIA FOOD TECHNOLOGY

Earliest Publication Date: 19830823

MICROWAVE BROWNING COOKWARE

Abstract: Source: US4701585A A **microwave** cookware comprising a body and a browning portion having a cooking surface and a separate heat absorbing body. The heat absorbing body is in contact with a heating matrix which absorbs **microwave** energy such that increased amount of heat is retained for transfer to the cooking surface.

Probable Assignee: FARBERWARE LICENSING CO LLC

Earliest Publication Date: 19871007

DEVICE AND METHOD TO POP CORN

Abstract: Source: US4902520A A device and method to pop corn while preventing any unpopped kernels from mixing with the popped corn and further preventing the already popped corn from burning. Each corn kernel is placed into an individual cell on a cassette. When the kernel is popped, it pops out of the cell and falls off of the cassette and is thus removed from the heat source. The unpopped kernels remain in the cassette where they will later be disposed of.

Probable Assignee: DYSARZ EDWARD D

Earliest Publication Date: 19900220

METHOD AND APPARATUS FOR MEASURING SELECTED CHARACTERISTICS OF FLUIDS

Abstract: Source: GB2094033A Applications to the printed circuit industry are described in which the concentration of a chemical in a solution is monitored and maintained at a preselected level. Portions of the solution 10 are continually pumped through a **microwave** sensor 20 that senses the resulting attenuation of the **microwave** radiation. The attenuated signal detected beyond the solution is compared the the signal as detected in the sensor in advance of the solution. If the signals differ by an amount different from the initial amount, the concentration of the chemical is adjusted accordingly. Means are also provided to accommodate differences in the **microwave** detectors' responses to **microwave** radiation as a function of temperature, and delays in dissolving the chemical in solution. Alarm means generate alarm signals if the concentration of the chemical in the solution differs from a preselected concentration by more than a preselected amount. The temperature in a constant head supply tank 16 is controlled in response to a sensor 100 by a heater 102, also the temperature in **microwave** device 20 in response to a sensor 104, by a heater 106.

Probable Assignee: CONS DESIGN INC

Earliest Publication Date: 19820827

MOLDED CONTAINER WITH INTEGRAL HINGE

Abstract: Source: US4466541A A stacking and nesting **container**, particularly a bakery tray, is provided with bails on two opposed sidewall top edges that are pivotable between a nesting position when the trays may be nested within each other and a stacking position wherein a like tray may have its bottom supported by the bails of a lower tray, and the entire structure is molded of synthetic resin material, without metal parts or separate hinge components. The hinge for the bails is formed by pins molded into the bails and fit within self locking bearing apertures of the sidewalls.

Probable Assignee: BUCKHORN MATERIAL HANDLING GROUP INC

Earliest Publication Date: 19840821

17) Family number: 15316932 (US2004107674A)

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METHOD OF AND APPARATUS FOR ENCODING AND RECORDING IDENTIFYING INDICIA FOR ARRAYS OF ROD-SHAPED COMMODITIES

Abstract: Source: US2004107674A Packs of rod-shaped smokers' products comprise **containers** of a material which permits monitoring of their contents by a suitable detector serving to generate signals which indicate the presence of characteristic indicia on one or more packed smokers' products. Such signals are encoded and the encoded information is applied to the respective **containers**. The information can be decoded and compared with signals furnished by the detector in order to ascertain whether or not the smokers' products are genuine, i.e., made by the manufacturer whose trademark(s) and/or other identifying information appear or appears on the **containers**.

Probable Assignee: HAUNI MASCHINENBAU AG

Earliest Publication Date: 20010330

18) Family number: 15352969 (GB2149757A)

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MOLDED **CONTAINER WITH INTEGRAL HINGE**

Abstract: Source: GB2149757A A stacking and nesting **container** 2, particularly a bakery tray, is provided with bails 1 on two opposed sidewall top edges that are pivotable between a nesting position when the trays may be nested within each other and a stacking position wherein a like tray may have its bottom supported by the bails of a lower tray, and the entire structure is molded of synthetic resin material, without metal parts or separate hinge components. The hinge for the bails is formed by pins molded into the bails which fit within self locking bearing apertures of the sidewalls. The hinge is so designed that it is assembled by inserting one pin in a bearing aperture, bowing the bail and inserting the other pin in a second bearing aperture, and straightening the bail while offering internal pivot pins to the slots 25 leading to bearing bores 24. The assembled **container** is metal-free and may be used without damage in a micro-wave oven.

Probable Assignee: BUCKHORN MATERIAL HANDLING

Earliest Publication Date: 19850619

19) Family number: 43203084 (US2011212938A)

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BICYCLIC HETEROCYCLE DERIVATIVES AND THEIR USE AS MODULATORS OF THE ACTIVITY OF GPR119

Abstract: Source: US2011212938A The present invention relates to Bicyclic Heterocycle Derivatives, compositions comprising a Bicyclic Heterocycle Derivative, and methods of using the Bicyclic Heterocycle Derivatives for treating or preventing obesity, diabetes, a metabolic disorder, a cardiovascular disease or a disorder related to the activity of GPR119 in a patient.

Probable Assignee: MERCK SHARP AND DOHME CORP

Earliest Publication Date: 20090430

20) Family number: 2147935 (US4775769A)

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METHOD OF BAKING UTILIZING RADIO FREQUENCY ENERGY AND METAL **CONTAINERS**

Abstract: Source: US4775769A In a method of baking using an open face **container** a radio frequency field is applied between the **container** and the material to be baked therein in order to enhance the heating of the material and thus shorten the baking time. The method can be used in a conventional oven of, for example, the convection type.

Probable Assignee: EA TECHNOLOGY LTD

Earliest Publication Date: 19871216

21) Family number: 29953763 (US2003076423A)

© PatBase

OPTICAL ELEMENT TO RESHAPE LIGHT WITH COLOR AND BRIGHTNESS UNIFORMITY

Abstract: Source: US2003076423A A light valve such as an active matrix LCD between crossed polarizers, utilizing, for instance, individual transistors to control each "pixel area" of the LCD and storage elements to store video signal data for each pixel, with optically shielded "dead spaces" between pixels to eliminate electric field cross-talk and non-information-bearing light bleed-through, is illuminated with a bright independent light source which creates a video image projected via specialized projection optics onto an internal or external screen without distortions, regardless of the angle of projection onto the screen. Use of heat sinks, IR reflective coatings, heat absorbing optics, optional fluid and a thermistor controlled pixel transistor bias voltage injection servo circuit stabilizes image performance, maintaining accurate color and contrast levels as the LCD changes temperature. In one embodiment of the invention, use of a multi-color LCD with a stepped cavity, producing different thicknesses of LCD for the different wavelengths that pass through it, allows a linear correspondence between the wavelengths passing through the LCD to produce true black, high contrast and CRT-like color rendition. A dichroic mirror arrangement is used to overlap differently colored pixels in the projected image. Use of striped mirrors duplicate pixels, where necessary, eliminating spaces between pixels, creating a continuous image with no apparent stripes or dots. A special venetian-blind type of screen is also disclosed and methods for using the system to view three-dimensional video are also explained.

Probable Assignee: DOLGOFF GENE

Earliest Publication Date: 19890713

22) Family number: 32246818 (US2005202589A)

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TECHNIQUE AND APPARATUS FOR DEPOSITING THIN LAYERS OF SEMICONDUCTORS FOR SOLAR

CELL FABRICATION

Abstract: Source: US2005202589A The present invention advantageously provides for, in different embodiments, low-cost deposition techniques to form high-quality, dense, well-adhering Group IBIIIAVIA compound thin films with macro-scale as well as micro-scale compositional uniformities. In one embodiment, there is provided a method of growing a Group IBIIIAVIA semiconductor layer on a base, and includes the steps of depositing on the base a film of Group IB material and at least one layer of Group IIIA material, intermixing the film of Group IB material and the at least one layer of Group IIIA material to form an intermixed layer, and forming over the intermixed layer a metallic film comprising at least one of a Group IIIA material sub-layer and a Group IB material sub-layer. Other embodiments are also described.

Probable Assignee: SOLOPOWER SYSTEMS INC

Earliest Publication Date: 20050915

23) Family number: 30113680 (US2002008512A)

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METHOD OF EXTENDING THE UTILITY OF AN INTEGRAL DRIVING-SENSING POT-CORE HALF EDDY CURRENT PROBE

Abstract: Source: US2002008512A An axial direction groove is formed in a high permeability toroidal core taking the form of a pot core half with a mounting hole, a high cross-section ratio copper casing being tightly fit around core circumference, having poly-phase excitation windings shuttled through the mounting hole to encompass both the copper casing and the pot-core, forming an integral driving-sensing eddy current probe. A naked pot-core is wound as an integral driving-sensing probe. Poly-phase excitation of the probe is mesh-connected as a gramme-ring.

Probable Assignee: LOGUE DELMAR LEON

Earliest Publication Date: 19950404

24) Family number: 49243708 (US2012282630A)

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MIXED-METAL SUBSTRATES FOR METAL-ENHANCED FLUORESCENCE

Abstract: Source: US2012282630A The present invention provides for mixed metal structures that can be deposited on a substrate or free in solution that exhibit several distinctive properties including a broad wavelength range for enhancing fluorescence signatures. Further, metal surface plasmons can couple and such diphas coupled luminescence signatures create extra plasmon absorption bands. The extra bands allow for a broad range of fluorophores to couple therefore making more generic substrates with wider reaching applications.

Probable Assignee: GEDDES CHRIS

Earliest Publication Date: 20110714

25) Family number: 5284872 (US4744486A)

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SEALING SYSTEM FOR CONTAINERS

Abstract: Source: US4744486A Sealable containers are disclosed which include a plastic base with an annular rim, a plastic lid with an annular U-shaped outer periphery for application to the annular rim on the plastic base, and a U-shaped annular metallic clamping strip with a corresponding configuration to the outer periphery of the lid, so that when applied to the closed container and crimped on either side of the annular rim, the container is effectively sealed form the atmosphere.

Probable Assignee: POLTEC TECNOLOGIA DE TRANSFORM

Earliest Publication Date: 19860101

26) Family number: 30005236 (US2002176879A)

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SKIN DEODORIZING COMPOSITIONS

Abstract: Source: US2002176879A The present invention relates to aqueous gel compositions comprising an odor controlling agent for deodorizing skin surfaces. Articles of manufacture and methods of deodorizing the skin using disclosed compositions are also disclosed.

Probable Assignee: PROCTER AND GAMBLE CO

Earliest Publication Date: 20000602

27) Family number: 57358678 (US2014254084A)

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MULTIPROCESSOR COMPUTING APPARATUS WITH WIRELESS INTERCONNECT FOR COMMUNICATION AMONG ITS COMPONENTS

Abstract: Source: US2014254084A A fan less Multiprocessor Computing Apparatus (MCA) is housed in a metallic Enclosure (ME) that acts as an heat sink and provides extended surface area for heat dissipation. The ME also acts as an electro-magnetic-Shield that provides immunity from Electro-Magnetic-Interference (EMI) from external stray magnetic fields to wireless communications among components of MCA. The Wireless Interconnect (WLI) can use whole range of radio, microwave, and optical frequencies involving transceivers and antennas. Printed Circuit Boards of MCA are mounted on inside of metallic surfaces of ME of any required size and shape. MEs are filled with vacuum or clean air without any suspended particles for efficient and reliable communications. Electro-magnetically shielded and sealed MEs housing MCAs are made dust and water proof so that they can be placed under water in a sea or a river, particularly MCAs constituting large data/cloud centres.

Probable Assignee: SURESHCHANDRA PATEL

Earliest Publication Date: 20140911

28) Family number: 15639168 (US2003024605A)

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MAGNETIC SUBSTANCE WITH MAXIMUM COMPLEX PERMEABILITY ...

Abstract: Source: US2003024605A A magnetic substance having the maximum value of complex permeability in quasi-**microwave** range is provided for suppressing a high frequency noise in a small-sized (electronic apparatus). The magnetic substance is of a magnetic composition comprising M, X and Y, where M is a metallic magnetic material consisting of Fe, Co, and/or Ni, X being element or elements other than M and Y, and Y being F, N, and/or O. The M-X-Y magnetic composition has a concentration of M in the composition so that said M-X-Y magnetic composition has a saturation magnetization of 35-80 percent of that of the metallic bulk of magnetic material comprising M alone. The magnetic composition has the maximum μ''_{max} of complex.

Probable Assignee: NEC TOKIN CORP

Earliest Publication Date: 20010726

29) Family number: 30890528 (US5453755A)

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CIRCULARLY-POLARIZED-WAVE FLAT ANTENNA

Abstract: Source: US5453755A A plurality of insulators are disposed in holes, respectively, defined in a metal plate of a waveguide of a circularly-polarized-wave flat antenna. Each insulator has a through-hole and a protrusion. The through-hole extends from the outside of the metal plate to the inside of the waveguide. The protrusion protrudes outward beyond the metal plate. The protrusion has a groove which is open to the outside. Curl antenna elements each have a shaft portion, an arm portion, and a curl portion. The shaft portion is fitted in the through-hole of the insulator and partly protrudes outward from the metal plate. The arm portion extends from the protruded end of the shaft portion. The curl portion is in a substantially helical shape and connected to the top of the arm portion. When the arm portion is engaged with the groove of the insulator, provided that the position of the groove of the insulator has been set in accordance with a desired orientation of the curl portion of the curl antenna element, the orientation of the curl portion is automatically set to a predetermined direction. Thus, the orientation of the curl portion can be precisely set to the predetermined direction. As a result, the operation for mounting a large number of curl antenna elements on the insulators in different directions according to the positions thereof can be easily performed.

Probable Assignee: YOKOWO CO

Earliest Publication Date: 19930804

30) Family number: 55204028 (US2015166241A)

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FOOD PACKAGING

Abstract: Source: US2015166241A Food packaging (50) has a food vessel (52) and a food tray (54). The vessel has an upper lip (56) and an inwardly projecting ledge (58) below the upper lip. The food tray has a pair of opposed handle structures (70a, 70b) and a tray portion (72) depending from the handle structures. Each handle structure has an outwardly projecting protuberance (82). The food tray is positioned within the food vessel with each protuberance resting on the inwardly projecting ledge such that the tray portion is suspended within the food vessel by the handle structures. This forms two food compartments (90, 92): one (90) below and one (92) above the tray portion. The vessel may be topped by a topping film (98).

Probable Assignee: NESTEC SA

Earliest Publication Date: 20131128

31) Family number: 29352728 (US2003003596A)

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METHOD AND DEVICE FOR SOLID PHASE MICROEXTRACTION AND DESORPTION

Abstract: Source: US2003003596A A device for carrying out solid phase microextraction is a fiber contained in a syringe. The fiber can be solid or hollow. The syringe has a barrel and a plunger slidable within the barrel, the plunger having a handle extending from one end of the barrel. A hollow needle extends from an end of the barrel opposite to the plunger. The fiber is contained in the needle. When the plunger is depressed, the fiber extends beyond a free end of the needle and when the plunger is in a withdrawn position, the fiber is located within the needle. The syringe protects the fiber from damage. When it is desired to analyze a sample in a bottle having a septum, the needle is inserted through the septum and the plunger is depressed so that the fiber will extend into the sample. After one or two minutes, the plunger is moved to the withdrawn position so that the fiber will return to the needle and the syringe is withdrawn from the sample bottle. The syringe is then inserted through a septum in a gas injection port of a gas chromatograph. The plunger is again depressed so that the fiber will extend into the gas chromatograph and an analysis of the components on the fiber is carried out. Then, the plunger is moved to the withdrawn and the syringe is withdrawn from the injection port. Previously, samples were analyzed using liquid-liquid extraction or using cartridges. Both of these methods are relatively expensive and time consuming. Both of these methods also require the use of solvents which can be difficult and expensive to dispose of.

Probable Assignee: WATERLOO UNIV OF

Earliest Publication Date: 19911017

32) Family number: 42182831 (US2001056255A)

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EFFECT OF ELECTRIC FIELD AND ULTRASOUND FOR TRANSDERMAL DRUG DELIVERY

Abstract: Source: US2001056255A Transdermal transport of molecules during sonophoresis (delivery or extraction) can be further enhanced by application of an electric field, for example, electroporation or iontophoresis. In a preferred embodiment the ultrasound is low frequency ultrasound which induces cavitation of the lipid layers of the stratum corneum (SC). This method provides higher drug transdermal fluxes, allows rapid control of transdermal fluxes, and allows drug delivery or analyte extraction at lower ultrasound intensities than when ultrasound is applied in the absence of an electric field.

Probable Assignee: NITTO DENKO CORP

Earliest Publication Date: 19950829

33) Family number: 28087996 (US2001026111A)

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ACOUSTIC BIOSENSOR FOR MONITORING PHYSIOLOGICAL CONDITIONS IN A BODY IMPLANTATION SITE

Abstract: Source: US2001026111A An acoustic biosensor is provided for deployment at an implantation site within a body, such as an abdominal aortic aneurysm. The biosensor includes a sensor element for measuring a physiological condition at the implantation site, and for generating an information signal representative of the physiological condition. The biosensor further includes a piezoelectric transducer element for converting an externally originated acoustic interrogation signal into energy for operating the sensor, and for modulating the interrogation signal, e.g., by employing a switching element to alternate the mechanical impedance of the transducer element, to transmit the information signal outside of the body.

Probable Assignee: REMON MEDICAL TECHNOLOGIES LTD

Earliest Publication Date: 19990708

34) Family number: 64783511 (WO17015531A1)

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HYDROPHILIC COATINGS OF PLASMONIC METALS TO ENABLE LOW VOLUME METAL-ENHANCED FLUORESCENCE

Abstract: The present invention provides for metallic structures comprising a sulfhydryl or amino- terminated hydrophilic coating to provide a layer of hydrophilic character on the surface of the metallic structures thereby allowing the use of low volumes of aqueous solvents of fluorophores that have the ability to "spread out" across the surfaces of the metallic structures and to provide for a more uniform surface coating of fluorophores attached to or near the metallic structures.

Probable Assignee: UNIV MARYLAND

Earliest Publication Date: 20170126

35) Family number: 46874273 (US2010243230A)

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HEAT-DISSIPATING DEVICE INCLUDING A PLATING METAL LAYER

Abstract: Source: US2010243230A A heat-dissipating device includes: a planar body made of a graphite laminate and extending along an x-y plane of the graphite laminate; and a plating metal layer formed on the planar body. The heat-dissipating device further includes a metal panel. The planar body is connected substantially perpendicularly to the metal panel. A method of making the heat-dissipating device is also disclosed.

Probable Assignee: TRIMBLE INC

Earliest Publication Date: 20100929

36) Family number: 32610945 (US2006027482A)

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JUMPER CABLE BAG

Abstract: Source: US2006027482A Jumper cable bag with wordage on it so that it can double as a sign to request a jump start.

Probable Assignee: PEARSON DAVID A

Earliest Publication Date: 20060209

37) Family number: 43782992 (US2009243150A)

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MANUFACTURING METHOD OF PLUGGED HONEYCOMB STRUCTURE

Abstract: Source: US2009243150A Disclosed is a manufacturing method of a honeycomb structure including a large number of cells arranged via partition walls, the cells being constituted of two types of cells including large cells each having a relatively large area of a section thereof vertical to a longitudinal direction and small cells each having a relatively small area of the section, the large cells being plugged in one end face of the honeycomb structure and the small cells being plugged in the other end face of the honeycomb structure. The method horizontally holds the honeycomb structure before the plugging along the longitudinal direction of the cells, first plugs the large cells, and continuously plugs the small cells.

Probable Assignee: NGK INSULATORS LTD

Earliest Publication Date: 20091001

38) Family number: 12177521 (US5212365A)

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DIRECT INJECTION MICRO NEBULIZER SYSTEM AND METHOD OF USE

Abstract: Source: US5212365A A direct injection micro nebulizer system for use in nebulizing sample solutions in close proximity to sample analysis systems, is disclosed. The present invention offers design features and utility not available in previously known micro nebulizer systems. The present invention, preferably, provides single piece unibody construction of the primary body element, and construction of all element thereof from nonmetallic, hydrofluoric acid resistant materials. The present invention allows easy cleaning and adjustment of element relationships which are necessary to proper operation of direct injection micro nebulizer systems. Use of separate or integrated protective sleeving on otherwise crushable sample solution delivery tubing is also disclosed. Use of the direct injection micro nebulizer with standard and specially designed inductively coupled plasma torches, as well as other sample analysis systems is disclosed.

Probable Assignee: SD ACQUISITION INC

Earliest Publication Date: 19930401

39) Family number: 11990272 (US5652021A)

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COMBUSTION CHEMICAL VAPOR DEPOSITION OF FILMS AND COATINGS

Abstract: Source: US5652021A A method for applying coatings to substrates using combustion chemical vapor deposition by mixing together a reagent and a carrier solution to form a reagent mixture, igniting the reagent mixture to create a flame, or flowing the reagent mixture through a plasma torch, in which the reagent is at least partially vaporized into a vapor phase, and contacting the vapor phase of the reagent to a substrate resulting in the deposition, at least in part from the vapor phase, of a coating of the reagent which can be controlled so as to have a preferred orientation on the substrate, and an apparatus to accomplish this method.

Probable Assignee: GEORGIA TECH RESEARCH CORP

Earliest Publication Date: 19940929

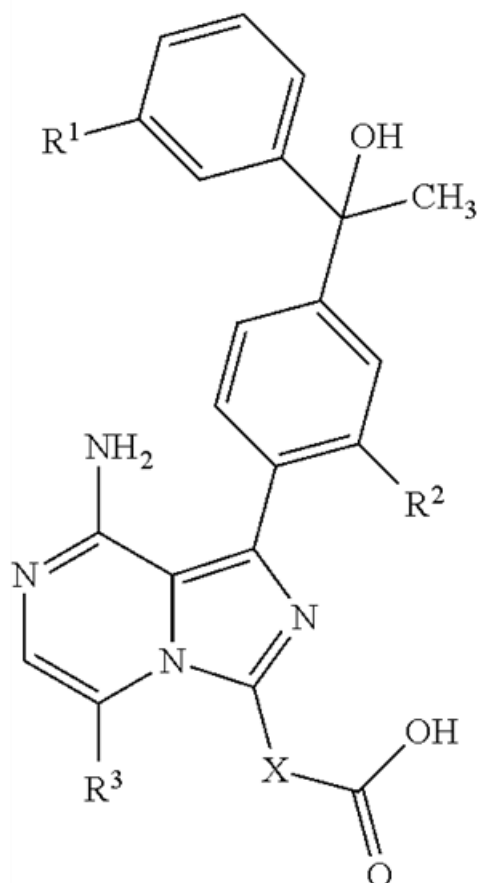
40) Family number: 62827893 (US2017342076A)

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TERTIARY ALCOHOL IMIDAZOPYRAZINE BTK INHIBITORS

Abstract: Source: US2017342076A The present invention provides Bruton's Tyrosine Kinase (Btk) inhibitor compounds according to Formula I, or pharmaceutically acceptable salts thereof, Formula I or to pharmaceutical compositions comprising these compounds and to their use in therapy. In particular, the present invention relates to the use of Btk inhibitor compounds of Formula I in the treatment of Btk mediated disorders.

(I)



Probable Assignee: MERCK SHARP AND DOHME

Earliest Publication Date: 20160707

41) Family number: 23264317 (WO0228626A1)

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BIO-DEGRADABLE COPOLYESTER NONWOVEN FABRIC

Abstract: A nonwoven fabric produced using an aliphatic copolyester as the filament material in a meltspinning process and apparatus including a filament extruder, spinneret and drawing unit having the capability of high velocity filament production. The fabric produced is biodegradable, soft, highly drapeable and has elastic properties. The degree of elasticity may be adjusted by varying filament production conditions and bonding parameters.

Probable Assignee: ASON ENGINEERING LTD

Earliest Publication Date: 20020411

42) Family number: 62827901 (WO16109216A1)

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BTK INHIBITORS

Abstract: The present invention provides Bruton's Tyrosine Kinase (Btk) inhibitor compounds according to Formula (I), or pharmaceutically acceptable salts thereof, or to pharmaceutical compositions comprising these compounds and to their use in therapy. In particular, the present invention relates to the use of Btk inhibitor compounds of Formula (I) in the treatment of Btk mediated disorders.

Probable Assignee: MERCK SHARP AND DOHME

Earliest Publication Date: 20160707

43) Family number: 52812200 (WO13008209A2)

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METHODS FOR THE PREPARATION OF CARBON NANOTUBES DOPED WITH DIFFERENT ELEMENTS

Abstract: The present invention relates to a method for the synthesis and in-situ doping of carbon nanotubes (CNT). The method of the invention enables the manufacture of nanotubes in an economically viable way and free from amorphous carbon, resulting in that their purification is performed only by the catalyst, which process requires just a few washes with low-concentration commercial acid. Also, this process allows the in-situ doping of carbon nanotubes with different doping elements during and after growth.

Probable Assignee: UNIV PONTIFICIA BOLIVARIANA

Earliest Publication Date: 20130117

44) Family number: 63934688 (US2017371322A)

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SYSTEM AND METHOD FOR MONITORING AND CONTROLLING A MANUFACTURING ENVIRONMENT

Abstract: Source: US2017371322A A system for monitoring and controlling a manufacturing environment is disclosed. Aspects discussed include beacons broadcasting identifying information for aspects of the manufacturing environment such as workstations, manufactured items, machines, equipment, and people. The identifying information may be used to generate reports about the operation of these and possibly other aspects, as well as provide control options for changing the manufacturing environment. Employees may move about the environment to visually monitor activities taking place, while the system may automatically query for additional information about the tools, equipment, people encountered in the environment. Control options for changing aspects of the manufacturing processes may also be automatically displayed as well.

Probable Assignee: LAKE COMPANIES INC

Earliest Publication Date: 20161110

45) Family number: 862159 (US3438021A)

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PERIMETER INTRUSION ALARM

Abstract: Source: US3438021A ABSTRACT OF THE DISCLOSURE

This invention relates to a perimeter intrusion alarm system which includes a flexible hose member containing a fluid capable of transmission of energy impulses in response to pressure applied to the external portion of the flexible tube. The pressure impulses are detected by a transducer means which converts this mechanical energy into an electrical energy manifestation and indicates an intrusion over the flexible detector hose means. In addition, the system provides a piezo-electric crystal member for sensing said intrusion and also means for interrogating said system by means of providing an interrogating energy pulse into said detection system.

Probable Assignee: WESTINGHOUSE ELECTRIC CORP

Earliest Publication Date: 19690408

46) Family number: 11284796 (US5747127A)

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POLYESTER COMPOSITION FOR USE IN THERMOFORMING DUAL-OVENABLE TRAYS

Abstract: Source: US5747127A This invention relates to a thermoplastic resin composition which is particularly suitable for use in thermoforming thin-walled articles, such as dual-ovenable trays. Articles which are made utilizing this thermoplastic resin composition have improved low-temperature impact strength. This thermoplastic resin composition is comprised of (a) from about 86 weight percent to about 98 weight percent polyethylene terephthalate having an intrinsic viscosity of at least about 0.7 dl/g; (b) from about 1 weight percent to about 7 weight percent of a polyethylene ionomer; and (c) from about 1 weight percent to about 7 weight percent of a polyolefin with repeat units derived from olefin monomers containing 2 to 6 carbon atoms, wherein the thermoplastic resin composition contains an effective amount of a heat stabilizer. The subject invention also includes thermoforming such thermoplastic resin compositions into thin-walled articles having a crystallinity of from about 10 percent to about 40 percent.

Probable Assignee: M AND G USA CORP

Earliest Publication Date: 19960718

47) Family number: 33994905 (US2006281650A)

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CLEANSING BAR WITH DISTRIBUTED POLYMERIC NETWORK PROVIDING ENHANCED DELIVERY

Abstract: Source: US2006281650A An article especially suitable for cleansing skin having the general form of a fibrous cleansing bar is described which includes a hydrous lathering composition that at least partially incorporates a fabricated polymer network that is exposed either before or during use. The fibrous cleansing bar exhibits an enhanced release of hydrophobic organic benefit agents used to deliver sensory, skin care or other functional benefits.

Probable Assignee: CONOPCO INC D B A UNILEVER

Earliest Publication Date: 20061214

48) Family number: 33994906 (US2006281651A)

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RED COLORED CLEANSING ARTICLE WITH DISTRIBUTED POLYMERIC NETWORK

Abstract: Source: US2006281651A A colored article suitable for cleansing skin having the general form of a fibrous bar is described. The article includes a solid or semi-solid lathering composition that at least partially incorporates a continuous fabricated polymeric network. The articles have a substantially red color defined by L_{ss}, a_{ss}, b_{ss} chromaticity values falling within a specific region of the CIE color space and exhibit a low tendency for discoloration in storage and use.

Probable Assignee: CONOPCO INC D B A UNILEVER

Earliest Publication Date: 20061214

49) Family number: 33994907 (US2006281652A)

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DARKLY COLORED CLEANSING ARTICLE WITH DISTRIBUTED POLYMERIC NETWORK

Abstract: Source: US2006281652A A darkly colored article especially suitable for cleansing skin having the general form of a fibrous bar is described. The article includes a solid or semi-solid lathering composition that at least partially incorporates a continuous fabricated polymeric network. By including a network that has a CIE Lightness Value of less than about 50, especially an achromatic network, darkly colored cleansing articles can be provided that have minimum staining potential and exhibit good color stability during storage and use.

Probable Assignee: CONOPCO INC D B A UNILEVER

Earliest Publication Date: 20061214

50) Family number: 15315970 (US6131296A)

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METHOD AND DEVICE FOR DETERMINING POSITIONS OF OBJECTS

Abstract: Source: US6131296A PCT No. PCT/SE96/00782 Sec. 371 Date Dec. 19, 1997 Sec. 102(e) Date Dec. 19, 1997 PCT Filed Jun. 17, 1996 PCT Pub. No. WO97/00454 PCT Pub. Date Jan. 3, 1997As equipment has a transducer (G) that receives signals from a number of objects with unknown positions and senses the directions from the transducer to the objects. The directions of the sight lines to the objects are sensed in at least two separate transducer locations. The transducer signals are supplied to calculator (CU) which calculates the positions of the objects.

Probable Assignee: FAEGER JAN G

Earliest Publication Date: 19961220

51) Family number: 29411750 (US4503070A)

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METHOD FOR REDUCING THE DURATION OF THE COMMON COLD

Abstract: Source: US4503070A The invention disclosed and claimed is a method to reduce duration of common colds in humans as evinced by reduction of duration of 10 common cold symptoms through use of zinc gluconate topically and frequently applied to the oral mucosa. The invention improves upon the prior art using zinc intranasally as an astringent and decongestant in treatment of common colds. Results of a clinical study are presented in support of disclosure and claims.

Probable Assignee: EBY III GEORGE A

Earliest Publication Date: 19850305

52) Family number: 31840666 (EP1525857A1)

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DEVICE FOR TREATING TEETH AND/OR ORAL MUCOSAL TISSUE

Abstract: Source: EP1525857A1 A device for treating teeth and/or oral mucosal tissue by electrolysis is provided. The invention provides a dental device with positive and negative electrodes and an electrolytically conductive composition is applied to the dental device. The conductive composition contains water and an electrolyte and is preferably in thickened form. The positive and negative electrodes are spaced apart and are preferably placed on a front and back portion of the dental device, respectively. The conductive composition is placed in the device between the positive and negative electrodes. Once power is activated an electric current is sent to the electrodes and the conductive composition generates one or more oxidizing agents which whiten the user's teeth. Additionally, the oxidizing agents eliminate harmful bacteria in the regions around the teeth.

Probable Assignee: MCNEIL PPC INC

Earliest Publication Date: 20050423

53) Family number: 41458300 (WO08017647A1)

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A MOLD WITH A METALLIC SURFACE TO WHICH A PRETREATMENT LAYER HAS BEEN APPLIED, COMPRISING A PHOSPHINIC ACID DERIVATIVE

Abstract: The invention relates to a mold with a metallic surface to which a pretreatment layer has been applied. This pretreatment layer has been obtained by means of a method comprising the following steps: (1) Provision of a substrate with a metallic surface, (2) Application of a crosslinkable product to the metallic surface of the substrate, wherein the product comprises the following, related to the sum of all the components with the exception of the solvent: (A) 20 percent to 70 percent by weight of at least one thermally and/or photochemically and/or atmospherically crosslinkable binder system, (B) 20 percent to 70 percent by weight of at least one component selected from the group of inorganic fillers, pigments, and colorants, (C) 0.25 percent to 40 percent by weight of at least one phosphinic acid derivative of the general formula $\text{HO}_2\text{P}(\text{R}^1)(\text{R}^2)$, where R^1 and R^2 may be alike or different and where R^1 is a substituted or unsubstituted phenyl group ($-\text{C}_6\text{H}_5$) or a substituted or unsubstituted, saturated or unsaturated aliphatic group with 1 to 30 C-atoms, and R^2 is a substituted or unsubstituted, saturated or unsaturated aliphatic group with 1 to 30 C-atoms, or a substituted or unsubstituted aromatic group, or a substituted or unsubstituted araliphatic group. All of the aforementioned groups may comprise one or several heteroatoms from the group comprising nitrogen, oxygen, sulfur, and phosphor chains and, if there is a substitute, this is selected from the group $-\text{OH}$; $-\text{OR}^3$; $-\text{SR}^4$; $-\text{NR}^5_2$

Probable Assignee: BASF SE

Earliest Publication Date: 20080213

54) Family number: 21102665 (FR1386279A)

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PROCEDE DE PREPARATION DE COMPOSES DE METAUX ET DE CARBONE COMPOUNDS FOR THE PREPARATION OF METAL AND CARBON (MACHINE TRANSLATION)

Abstract: Source: FR1386279A (Claim 1) RESUME L'invention concerne notamment: I.

Machine translation: (Claim 1) SUMMARY The invention relates in particular: I.

Probable Assignee: ENGELHARD IND

Earliest Publication Date: 19650122

WASTE PLASTIC CONVERSION

Abstract: The first aspect of the invention comprises: a method of recovering indiscriminate waste plastics comprising the following steps: preparation of medium from waste thinners and chemically active waste plastics, blending the inert plastic powders into this medium, blending other fibrous wastes into medium, blending abundant powder waste of flyash into mix, using reclaimed carbons and glass as reinforcement in the blend of medium and powdered plastics. The second aspect of the invention comprises: the method to utilize abundant waste thinners to prepare the medium (resin) without expensive filtration.

Probable Assignee: DOBOZY J G

Earliest Publication Date: 19960425

MOLDABLE LEAD COMPOSITION

Abstract: Source: US3827982A ABSTRACT OF THE DISCLOSURE Dry lead powder is mixed with water. Substantially all free water is removed from the wet composition to produce a self-supporting lead composition. This composition can be used as a matrix into which aggregates are dispersed. OTHER APPLICATIONS This is a continuation-in-part of our earlier filed copending application, Ser. No. 406,561, filed Oct. 26, 1964, now abandoned. FIELD OF INVENTION

Probable Assignee: CHEMTREE CORP

Earliest Publication Date: 19660426

METHOD OF DEVELOPING A SILVER HALIDE PHOTOGRAPHIC MATERIAL.

Abstract: Source: EP0358165A2 A method of developing with a developer containing at least one compound selected from the group consisting of compounds represented by Formulae I, II and III a negative-type silver halide photographic light-sensitive material having a support and provided thereon hydrophilic colloid layers comprising at least one light-sensitive silver halide emulsion layer is disclosed. At least one of said colloid layers on the emulsion layer side comprising at least one compound selected from the group consisting of compounds represented by Formulae I, II and III, the ratio of the silver content represented by g/m of at least one of said colloid layers to the thickness represented by μm of said colloid layers being not less than 0.7 and the ratio of the content of said compound represented by mg/m in at least one of said colloid layers to that of said compound represented by mg/l in said developer being from 0.01 to 1. l

Probable Assignee: KONISHIROKU PHOTO IND

Earliest Publication Date: 19900308