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Search 3: CPC=(c10I5/00 and c10I4/40) (Results 0)
Search 4: CPC=(c10I5/00 and c10I5/40) (Results 18)

1) Family number: 1122029 (US3864094A)

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Title: Fuel composition

Abstract: An improved combustible fuel product for use in coal-burning heating systems, which fuel has a heat value substantially equivalent to that of coal and exhibits low pollution emissions. The fuel consists essentially of lignite (or brown coal) and cryogenically reclaimed rubber tire fragments. In the preferred range, the fuel consists in weight percent of between 85 percent and 92 percent lignite and between 8 percent and 15 percent cryogenically reclaimed tire fragments.

Classifications:

International (IPC 8-9): C10L5/00 C10L5/40 (Advanced/Invention)

International (IPC 1-7): C10L5/00

CPC: C10L5/00 C10L5/40 Y02E50/30

European: C10L5/00 C10L5/40 Y02E50/30

US: 44/605 44/608

Family:

Publication number	Publication date	Application number	Application date
US3864094 A	19750204	US19730351138	19730416

Priority:

US19730351138 19730416

Probable Assignee: CRYOGENIC RECYCLING INT

Assignee(s): (std): CRYOGENIC RECYCLING INT

Assignee(s): CRYOGENIC RECYCLING INTERNATIONAL INC

Inventor(s): (std): LOCKETZ HARRY B

2) Family number: 64663079 (CN106318502A)

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Title: DESULFURIZED STRAW BIOMASS COMBUSTION ROD WITH GOOD AIR PERMEABILITY AND PREPARATION METHOD THEREOF

Abstract: The invention discloses a desulfurized straw biomass combustion rod with good air permeability and a preparation method thereof. The desulfurized straw biomass combustion rod is characterized by being prepared from the following raw materials in parts by weight: 2-3 parts of corncobs, 4-8 parts of sludge, 1-2 parts of yeast, 1-2 parts of bagasse, 4-9 parts of powdered coal, 2-3 parts of polyvinyl alcohol, 3-6 parts of paraffin, 10-20 parts of yellow mud, 10-20 parts of wheat straw, 1-2 parts of zinc stearate, 5-10 parts of rice straw, 5-10 parts of a bamboo wood material, 3-5 parts of tree branches, 4-8 parts of ferric oxide, 0.1-0.4 part of zirconium dioxide, and an appropriate amount of water. The combustion rod is prepared by using the straws matching with the powdered coal, so that full utilization of resources is achieved, the emission of poisonous gases including sulfur dioxide and the like is effectively reduced, and the combustion rod is beneficial for environmental protection and health of human bodies; and the corncobs and the like are added by matching, so that the fuel is good in air permeability and can be combusted fully.

Classifications:

International (IPC 8-9): C10L5/00 C10L5/02 C10L5/40 C10L5/44 C10L5/48 (Advanced/Invention)

CPC: Y02E50/30 Y02E50/10 C10L5/00 C10L5/02 C10L5/40 C10L5/44 C10L5/48 C10L2200/029 C10L2200/0295

Family:

Publication number	Publication date	Application number	Application date
CN106318502 A	20170111	CN201610708376	20160824

Priority:

CN201610708376 20160824

Probable Assignee: TAIHU XIANGYOU NEW ENERGY CO LTD

Assignee(s): (std): TAIHU XIANGYOU NEW ENERGY CO LTD

Assignee(s): TAIHU COUNTY HAVE NEW ENERGY LLC ; TAIHU XIANGYOU NEW ENERGY CO

Inventor(s): (std): WU WENSHENG

Title: BRENNSTOFFMISCHUNG AUS KOHLENSTOFFHALTIGEN EINSATZSTOFFEN FUER FESTBETTVERGASER ZUM ERZEUGEN EINES PRODUKTGASES FUEL MIX FROM KOHLENSTOFFHALTIGEN APPLICATION MATERIALS FOR FIXED BED GASIFIER TO PRODUCE A PRODUCT GAS (Machine translation)

Abstract: Source: DE202015105001U1 [DE] Brennstoffmischung aus kohlenstoffhaltigen Einsatzstoffen fuer Festbettvergaser zum Erzeugen eines Produktgases mit der Zusammensetzung BS = mH + mx wobei mH die Massenprozentangabe von Holz im Bereich von 10 percent bis 90 percent und mx die Massenprozentangabe eines zweiten Stoffes ist, der aus folgender Gruppe mit den genannten Massenprozentbereichen gewaehlt wird: Kunststoff PE: mx = 10 percent bis 40 percent, Kunststoff PET: mx = 10 percent bis 40 percent, Kunststoff PP: mx = 10 percent bis 40 percent, Haselnussschalen: mx = 50 percent bis 95 percent, Kirschkerne: mx = 50 percent bis 95 percent, Sonnenblumenkernschalen: mx = 20 percent bis 80 percent, Palmkernschalen: mx = 50 percent bis 95 percent, Kaffeetrest: mx = 20 percent bis 80 percent, Gummireifen: mx = 10 percent bis 20 percent, Zellulose: mx = 10 percent bis 95 percent, Bambus: mx = 10 percent bis 40 percent, Heu: mx = 10 percent bis 50 percent, Stroh: mx = 10 percent bis 50 percent, Reisspelzen: mx = 10 percent bis 50 percent, Erdnussschalen: mx = 20 percent bis 80 percent, Gaerrest (aus Biogasanlagen): mx = 10 percent bis 20 percent, Miscanthus: mx = 10 percent bis 50 percent, Knoeterich: mx = 20 percent bis 80 percent, Walnussschalen: mx = 50 percent bis 95 percent, Macademiaschalen: mx = 50 percent bis 95 percent, Olivenkerne: mx = 50 percent bis 95 percent, Maisspindel: mx = 10 percent bis 40 percent, Braunkohle: mx = 20 percent bis 80 percent, torrefizierte Pellets aus Restholz: mx = 20 percent bis 80 percent, torrefizierte Pellets aus Gruenschnitt: mx = 20 percent bis 80 percent, Zuckerrohrbagasse: mx = 10 percent bis 40 percent, Fruchtrest: mx = 10 percent bis 40 percent. **Machine translation:** Fuel mixture of carbonaceous feedstocks for fixed bed Gasifier to produce a product gas composition BS = mH where mH the mass percentage of wood in the range of 10 percent to 90 percent and mx mx is the mass percentage of a second substance, which is chosen from the following group with the mass percent areas: polyethylene: mx = 10 percent to 40 percent, plastic PET: mx = 10 percent to 40 percent, Plastic PP: mx = 10 percent to 40 percent, Hazel nut shells: mx = 50 percent to 95 percent, cherry stones: mx = 50 percent to 95 percent, sunflower seed shells: mx = 20 percent to 80 percent, palm kernel shells: mx = 50 percent to 95 percent, coffee grounds: mx = 20 percent to 80 percent, rubber tyres: mx = 10 percent to 20 percent, cellulose: mx = 10 percent to 95 percent, bamboo: mx = 10 percent to 40 percent, Hay: mx = 10 percent up to 50 percent, straw: mx = 10 percent up to 50 percent, rice husk: mx = 10 percent up to 50 percent, peanut shells: mx = 20 percent to 80 percent, Digestate (from bio-gas plants): mx = 10 percent to 20 percent, Miscanthus: mx = 10 percent up to 50 percent, knotweed: mx = 20 percent to 80 percent, walnut shells: mx = 50 percent to 95 percent, Macademiaschalen: mx = 50 percent to 95 percent, Olive pits: mx = 50 percent to 95 percent, corn stem: mx = 10 percent to 40 percent, brown coal: mx = 20 percent to 80 percent, torrefizierte pellets from waste wood: mx = 20 percent to 80 percent, torrefizierte pellets from green waste: mx = 20 percent to 80 percent, sugarcane bagasse: mx = 10 percent to 40 percent, fruit pomace: mx = 10 percent to 40 percent.

Classifications:

International (IPC 8-9): C10L5/44 (Advanced/Invention)

CPC: C10L5/40 C10L5/00 C10L5/04 C10L5/363 C10L5/406 C10L5/44 C10L5/442 C10L5/445 C10L5/447 C10L5/48 C10L9/10 C10L2200/0213 C10L2200/0218 C10L2200/0272 C10L2290/04 Y02E50/30 Y02E50/10 Y02E50/15

Family:

Publication number	Publication date	Application number	Application date
DE202015105001 U1	20170202	DE201520105001U	20150921

Priority:

DE201520105001U 20150921

Probable Assignee: ENTRADE ENERGIESYSTEME AG

Assignee(s): (std): ENTRADE ENERGIESYSTEME AG

Title: LOW-COST AND DEVULCANIZED STRAW BIOMASS BURNING ROD AND PREPARATION METHOD THEREOF

Abstract: The invention discloses a low-cost and devulcanized straw biomass burning rod and a preparation method thereof. The low-cost and devulcanized straw biomass burning rod is characterized by being prepared from, by weight, 1-2 parts of asphalt, 5-10 parts of sludge, 1-2 parts of yeast, 2-4 parts of cow dung, 5-10 parts of coal powder, 2-3 parts of polyvinyl alcohol, 3-6 parts of paraffin, 10-20 parts of yellow mud, 10-20 parts of wheat straw, 1-3 parts of lignin, 5-10 parts of rice straw, 5-10 parts of bamboo wood materials, 3-5 parts of branches, 4-8 parts of iron sesquioxide, 0.1-0.4 part of zirconium dioxide and an appropriate amount of water. The burning rod is prepared by cooperating the straw with the coal powder, not only is full utilization of resources achieved, but also emission of poisonous gas such as sulfur dioxide is effectively reduced, and environmental protection and physical health of human are promoted; by cooperatively adding the cow dung and the like, the production cost of the finished product is reduced.

Classifications:

International (IPC 8-9): C10L10/00 C10L5/00 C10L5/02 C10L5/06 C10L5/40 C10L5/42 C10L5/44 C10L5/48 C10L9/10 (Advanced/Invention)

CPC: C10L5/00 C10L5/02 C10L5/06 C10L5/40 C10L5/42 C10L5/445 C10L5/447 C10L5/48 C10L9/10 C10L10/00 C10L2200/029 C10L2200/0453 C10L2230/085 C10L2290/26 C10L2290/28 C10L2290/546 C10L2290/56 Y02E50/10 Y02E50/30

Family:

Publication number	Publication date	Application number	Application date
CN106281528 A	20170104	CN201610708408	20160824

Priority:

CN201610708408 20160824

Probable Assignee: TAIHU XIANGYOU NEW ENERGY CO LTD

Assignee(s): (std): TAIHU XIANGYOU NEW ENERGY CO LTD

Assignee(s): TAIHU COUNTY HAVE NEW ENERGY LLC ; TAIHU XIANGYOU NEW ENERGY CO

Inventor(s): (std): WU WENSHENG

Title: FIRE ENHANCEMENT SYSTEM

Abstract: A fire enhancement system for increasing the visual appearance of a fire with a simple to utilize structure. The inventive device includes an outer tube defining an interior cavity, and a fuel member positioned within the interior cavity of the outer tube. The outer tube is preferably comprised of copper tubing or similar composition of copper with the fuel member comprised of a plastic material thereby forming a chemical reaction when heated thereby displaying a pleasing variety of colors within a fire. The outer tube may include a first cap and a second cap for preventing the fuel member from exiting the outer tube.

Classifications:

International (IPC 8-9): C10L5/00 C10L5/40 (Advanced/Invention);

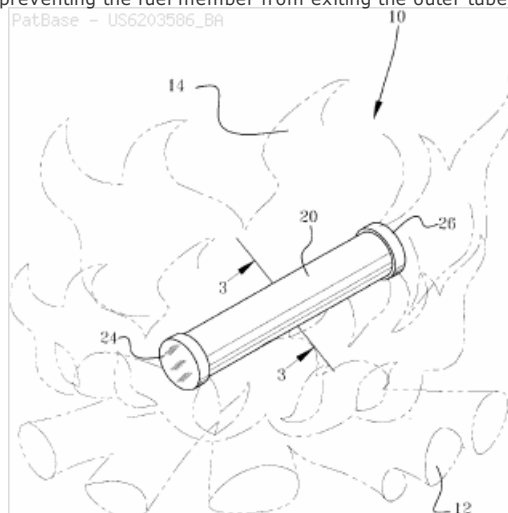
C10L5/00 C10L5/40 (Core/Invention)

International (IPC 1-7): C10L5/00

CPC: C10L5/00 C10L5/40 Y02E50/30

European: C10L5/00 C10L5/40 Y02E50/30

US: 44/530 44/535 44/535



Family:

Publication number	Publication date	Application number	Application date
US6203586 BA	20010320	US20000481989	20000112

Priority:

US20000481989 20000112

Probable Assignee:

DAVIS JOHN W

Assignee(s):

DAVIS JOHN W

Inventor(s): (std):

DAVIS JOHN W

Inventor(s):

JOHN W DAVIS

Agent(s):

MICHAEL S NEUSTEL

Title: METHOD FOR PREPARING HIGH-PERFORMANCE COMPOUND MACHINE-MADE CHARCOAL

Abstract: The invention relates to a method for preparing high-performance compound machine-made charcoal, and belongs to the technical field of resource comprehensive utilization. The method comprises the following steps: respectively grinding a biomass raw material with a moisture content of lower than 5 percent and lignite into particles having granularity of less than 1cm; pyrolyzing the biomass raw material particles to obtain charcoal; uniformly mixing charcoal, lignite, an adhesive, a combustion improver and water to obtain a mixed material, and pressing the mixed material into charcoal rods with center holes; and heating the charcoal rods with center holes to 400-700 degrees centigrade at a heating speed of 30-200 DEG C/min, carbonizing for 1-12 hours, and cooling to obtain the compound machine-made charcoal. The preparation process adopts biomass which is rich in source and low in price, is regenerative and can be easily ground and lignite with low price as carbon sources, has the potentials of low large-scale production price, high yield, high heat value and high porosity, and is well accepted by the market.

Classifications:

International (IPC 8-9): C10B53/04 C10B57/02 C10L5/00 C10L5/04 C10L5/10 C10L5/40 C10L5/44 (Advanced/Invention)

CPC: C10B57/02 C10B53/04 C10L5/00 C10L5/04 C10L5/10 C10L5/40 C10L5/445 C10L5/447 C10L2230/22 C10L2290/02 C10L2290/24 C10L2290/28 C10L2290/32 Y02E50/30 Y02E50/10

Family:

Publication number	Publication date	Application number	Application date
CN106635104 A	20170510	CN201611037588	20161123

Priority:

CN201611037588 20161123

Probable Assignee: UNIV KUNMING SCIENCE AND TECH

Assignee(s): (std): KUNMING UNIV OF SCIENCE AND TECHNOLOGY ; UNIV KUNMING SCIENCE AND TECH

Inventor(s): (std): CHEN ZHENGJIE ; YANG BIN ; MA WENHUI ; DAI YONGNIAN ; WU JIJUN ; LIU DACHUN ; WANG HUA ; YANG XINGWEI ; WEI KUOXIAN ; XIE KEQIANG

Title: PACKAGING FOR FUEL MOULDS AND METHOD FOR CONSTRUCTING SAME

Abstract: Source: EP2113471A3 [DE] Packung (1) von Brennstoffformkörpern (2), umfassend mehrere Lagen (3, 5, 6, 7, 8, 9) von Brennstoffformkörpern (2), wobei die Brennstoffformkörper (2) so angeordnet sind, dass sich mindestens ein durchstroembarer Kuehlkanal (14) in der Packung (1) bildet, **dadurch gekennzeichnet, dass** mindestens eine der folgenden Bedingungen erfuellt ist: a) der Quotient - der Summe der Querschnittsflaechen des mindestens einen Kuehlkanals (14) - zu der Summe der Querschnittsflaechen der Brennstoffformkoerper (2) einer Lage (3, 5, 6, 7, 8, 9) liegt zwischen $1 \cdot 10^{-2}$ und $4,2 \cdot 10^{-2}$; b) der Quotient - der Summe der Kuehlkanalumfange (16) - zur Summe der Querschnittsflaechen der Brennstoffformkoerper (2) in einer Lage (3, 5, 6, 7, 8, 9) groesser als $1,5 \cdot 10^{-3} \text{ mm}^{-1}$; und c) der Quotient - der Summe der Umfange (17) der freien Querschnitte (15) - zur Summe der Querschnittsflaechen der Brennstoffformkoerper (2) in einer Lage (3, 5, 6, 7, 8, 9) groesser als $1,5 \cdot 10^{-3} \text{ mm}^{-1}$. Die erfindungsgemaesse Packung (1) erlaubt den Transport und die Lagerung von Brennstoffformkoerpern (2), wobei die entsprechenden Packungen (1) stabil sind und insbesondere auch mehrere Packungen (1) aufeinander gestapelt werden koennen, wobei gleichzeitig gewaehrleistet ist, dass durch die Kuehlkanaele (14) die Brennstoffformkoerper (2) auch im Inneren der Packung (1) genuegend Kuehlluft erreicht, so dass eine Selbstentzuendung vermieden werden kann.

Classifications:

International (IPC 8-9): B65B27/00 B65D71/00 B65D85/62 C10L11/04 C10L11/06 C10L5/00 C10L5/02 C10L5/36 C10L5/40 (Advanced/Invention); B65D71/00 B65D85/62 C10L5/00 (Core/Invention)

CPC: C10L5/00 C10L5/368 C10L5/40 C10L11/04 C10L11/06 Y02E50/30

European: C10L11/04 C10L11/06 C10L5/00 C10L5/36J C10L5/40 Y02E50/30

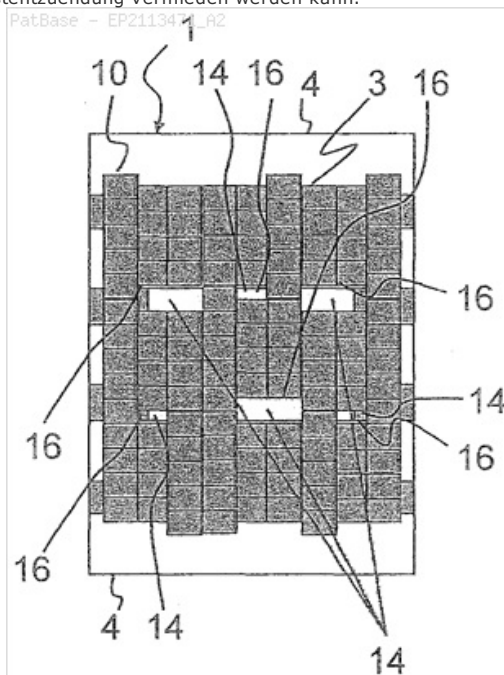


FIG. 9

Family:

Publication number	Publication date	Application number	Application date
DE102008021800 A1	20091105	DE200810021800	20080430
DE502009003729 D1	20120809	DE200950003729T	20090409
DK2113471 T3	20130422	DK20090157736T	20090409
EP2113471 A2	20091104	EP20090157736	20090409
EP2113471 A3	20100609	EP20090157736	20090409
EP2113471 B1	20120606	EP20090157736	20090409
ES2391740 T3	20121129	ES20090157736T	20090409
PL2113471 T3	20121130	PL20090157736T	20090409

Priority:

DE200810021800 20080430 EP20090157736 20090409

Probable Assignee: RWE POWER AG

Assignee(s): (std): RWE POWER AG

Assignee(s): RWE POWER AKTIENGESELLSCHAFT

Inventor(s): (std): EID LUDWIG ; LAENGSFELD ACHIM ; TELLER EDUARD

Agent(s): KNH PATENTANWALTE KAHLEHOEFER NEUMANN ROESSLER HEINE PARTG MBB; HEINE CHRISTIAN KLAUS

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Title: SOLID-STATE BIOFUEL AND PREPARATION METHOD THEREOF

Abstract: The invention provides a solid-state biofuel and a preparation method thereof. The solid-state biofuel is mainly prepared from lignin, agricultural wastes, sea mud, sepiolite fabric, aluminum oxide, a silane coupling agent, ammonium chloride, dimethyl silicone oil, yeast powder, capsaicin, di-tert-butylhydroquinone, an oxygen producer, a seismic explosion-proof agent

and a bulking agent. According to the solid-state biofuel and the preparation method thereof provided by the invention, the solid-state biofuel is green and environment-friendly; by using the agricultural wastes, pollution of the agricultural wastes to air is reduced, and the recycling value is improved; compared with conventional fuel, the solid-state biofuel has the advantages of high combustion value, no emission of harmful gases after combustion, no corrosion to combustion equipment, wide sources of the raw materials, easiness in obtaining, low production cost and suitability for large-scale industrial application.

Classifications:

International (IPC 8-9): C10L10/00 C10L10/18 C10L5/00 C10L5/40 C10L5/44 C10L5/46 C10L9/10 (Advanced/Invention)

CPC: Y02E50/30 C10L5/00 C10L5/40 C10L5/44 C10L5/445 C10L5/46 C10L9/10 C10L10/00 C10L10/18 C10L2200/0254 C10L2200/0272 C10L2200/029 C10L2200/04 C10L2200/0461 C10L2200/0469 Y02E50/10

Family:

Publication number	Publication date	Application number	Application date
CN107227186 A	20171003	CN201710527368	20170630

Priority:

CN201710527368 20170630

Probable Assignee: SUZHOU BEIKAY BIOCHEMICAL INSTR CO LTD

Assignee(s): (std): SUZHOU BEIKAY BIOCHEMICAL EQUIPMENT CO LTD ; SUZHOU BEIKAY BIOCHEMICAL INSTR CO LTD

Assignee(s): SUZHOU BEIKAY BIOCHEMICAL INSTRUMENTS CO

Inventor(s): (std): MA RONGHUA

9) Family number: 71870484 (RU2671824C)

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Title: PELLETS FROM WOOD RAW MATERIAL (HYDROLYTIC LIGNIN) AND A METHOD FOR PRODUCTION THEREOF

Abstract: FIELD: technological processes.SUBSTANCE: invention discloses hydrolytic lignin pellets made in the form of fuel pellets compressed from hydrolytic lignin, obtained by the method of hydrolysis of wood waste with sulfuric acid solutions, characterized by the fact that before processing the hydrolytic lignin is enriched with derived waste of hydrolysis production, and before pressing, it is finely cleaned, sorted into fractions, followed by the removal of mineral elements and decreasing ash content. Also a method for producing hydrolyzed lignin pellets is disclosed.EFFECT: technical result consists in obtaining pellets that have optimal characteristics: they have a high calorific efficiency, high mechanical strength, and when they are burned, no ash residue is formed.3 cl

Classifications:

International (IPC 8-9): C07G1/00 C10L5/00 C10L5/40 C10L5/44 (Advanced/Invention)

CPC: C10L5/44 C07G1/00 C10L5/40 C10L5/00

Family:

Publication number	Publication date	Application number	Application date
RU2671824 C1	20181107	RU20180104729	20180207

Priority:

RU20180104729 20180207

Probable Assignee: OTKRYTOE AKTSIONERNOE OBSHCHESTVO BIONET

Assignee(s): (std): OTKRYTOE AKTSIONERNOE OBSHCHESTVO BIONET

Inventor(s): (std): PYSHNYJ VYACHESLAV ANATOLEVICH

Agent(s): A YA 26 RYBINA N A

10) Family number: 12946501 (US6458177B)

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Title: SYNTHETIC FIRE LOGS

Abstract: A mixture includes paraffin wax and a thickening agent, the thickening agent being pseudoplastic above the melting point of the paraffin wax. The paraffin wax ideally makes up 50-99 percent w of the mixture, and the thickening agent 1-40 percent w of the mixture. The thickening agent includes diatomaceous earth. The mixture may include abrasive material, fibrous particles, and talc to affect its texture when applied to an article. Also disclosed is a synthetic log of combustible material including wood waste and a hydrocarbon (such as paraffin wax), and a coating applied in a state of low viscosity so as to partially or wholly cover the surface of the log, which then sets. This coating is ideally the mixture defined above. The log may be wrapped in a sleeve which features a transparent window, so the coating can be viewed, especially if the coating is only applied to part of the log's surface.

Classifications:

International (IPC 8-9): C08L91/06 C09D5/28 C10L5/00 C10L5/34

C10L5/40 C10L5/44 (Advanced/Invention);

C09D5/28 C10L5/00 C10L5/40 (Core/Invention)

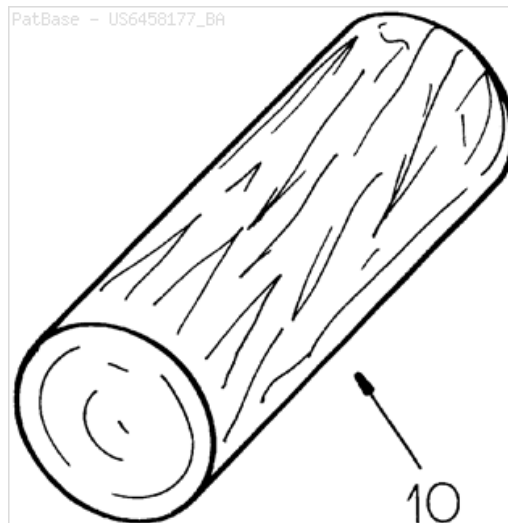
International (IPC 1-7): C08L91/06 C08L91/08 C09D191/06 C09D5/28

C10L11/04 C10L5/00 C10L5/14 C10L5/40 C10L5/44

CPC: C10L5/40 C10L5/34 C10L5/00 Y02E50/30

European: C10L5/00 C10L5/34 C10L5/40 Y02E50/30

US: 44/535 44/541 44/543 44/544 44/559 44/562 44/563 44/576 44/580 44/593 44/594 44/595 44/596 44/597 44/598 44/599 44/600 44/601 44/602 44/603 44/604 44/605 44/606 44/607 44/608 44/609 44/610 44/611 44/612 44/613 44/614 44/615 44/616 44/617 44/618 44/619 44/620 44/621 44/622 44/623 44/624 44/625 44/626 44/627 44/628 44/629 44/630 44/631 44/632 44/633 44/634 44/635 44/636 44/637 44/638 44/639 44/640 44/641 44/642 44/643 44/644 44/645 44/646 44/647 44/648 44/649 44/650 44/651 44/652 44/653 44/654 44/655 44/656 44/657 44/658 44/659 44/660 44/661 44/662 44/663 44/664 44/665 44/666 44/667 44/668 44/669 44/670 44/671 44/672 44/673 44/674 44/675 44/676 44/677 44/678 44/679 44/680 44/681 44/682 44/683 44/684 44/685 44/686 44/687 44/688 44/689 44/690 44/691 44/692 44/693 44/694 44/695 44/696 44/697 44/698 44/699 44/700 44/701 44/702 44/703 44/704 44/705 44/706 44/707 44/708 44/709 44/710 44/711 44/712 44/713 44/714 44/715 44/716 44/717 44/718 44/719 44/720 44/721 44/722 44/723 44/724 44/725 44/726 44/727 44/728 44/729 44/730 44/731 44/732 44/733 44/734 44/735 44/736 44/737 44/738 44/739 44/740 44/741 44/742 44/743 44/744 44/745 44/746 44/747 44/748 44/749 44/750 44/751 44/752 44/753 44/754 44/755 44/756 44/757 44/758 44/759 44/760 44/761 44/762 44/763 44/764 44/765 44/766 44/767 44/768 44/769 44/770 44/771 44/772 44/773 44/774 44/775 44/776 44/777 44/778 44/779 44/780 44/781 44/782 44/783 44/784 44/785 44/786 44/787 44/788 44/789 44/790 44/791 44/792 44/793 44/794 44/795 44/796 44/797 44/798 44/799 44/800 44/801 44/802 44/803 44/804 44/805 44/806 44/807 44/808 44/809 44/810 44/811 44/812 44/813 44/814 44/815 44/816 44/817 44/818 44/819 44/820 44/821 44/822 44/823 44/824 44/825 44/826 44/827 44/828 44/829 44/830 44/831 44/832 44/833 44/834 44/835 44/836 44/837 44/838 44/839 44/840 44/841 44/842 44/843 44/844 44/845 44/846 44/847 44/848 44/849 44/850 44/851 44/852 44/853 44/854 44/855 44/856 44/857 44/858 44/859 44/860 44/861 44/862 44/863 44/864 44/865 44/866 44/867 44/868 44/869 44/870 44/871 44/872 44/873 44/874 44/875 44/876 44/877 44/878 44/879 44/880 44/881 44/882 44/883 44/884 44/885 44/886 44/887 44/888 44/889 44/890 44/891 44/892 44/893 44/894 44/895 44/896 44/897 44/898 44/899 44/900 44/901 44/902 44/903 44/904 44/905 44/906 44/907 44/908 44/909 44/910 44/911 44/912 44/913 44/914 44/915 44/916 44/917 44/918 44/919 44/920 44/921 44/922 44/923 44/924 44/925 44/926 44/927 44/928 44/929 44/930 44/931 44/932 44/933 44/934 44/935 44/936 44/937 44/938 44/939 44/940 44/941 44/942 44/943 44/944 44/945 44/946 44/947 44/948 44/949 44/950 44/951 44/952 44/953 44/954 44/955 44/956 44/957 44/958 44/959 44/960 44/961 44/962 44/963 44/964 44/965 44/966 44/967 44/968 44/969 44/970 44/971 44/972 44/973 44/974 44/975 44/976 44/977 44/978 44/979 44/980 44/981 44/982 44/983 44/984 44/985 44/986 44/987 44/988 44/989 44/990 44/991 44/992 44/993 44/994 44/995 44/996 44/997 44/998 44/999

**Family:**

Publication number	Publication date	Application number	Application date
AU199963020 A1	20000608	AU19990063020	19991201
AU199963020 A5	20000608	AU19990063020	19991201
CA2291208 AA	20000603	CA19992291208	19991129
EP1006172 A1	20000607	EP19990120379	19991013
GB200108836 A0	20010530	GB20010008836	19991001
GB2344351 A1	20000607	GB19990023119	19991001
GB2344351 B2	20010905	GB19990023119	19991001
GB2368593 A1	20020508	GB20010008836	19991001
GB2368593 B2	20030219	GB20010008836	19991001
GB9826410 A0	19990127	GB19980026410	19981203
GB9923119 A0	19991201	GB19990023119	19991001
HU9904467 AA	20000828	HU19990004467	19991202
NO995486 A	20000605	NO19990005486	19991109
NO995486 A0	19991109	NO19990005486	19991109
NO995486 L	20000605	NO19990005486	19991109
NZ500950 A	20010629	NZ19990500950	19991110
NZ511662 A	20020531	NZ19990511662	19991110
PL336921 A1	20000605	PL19990336921	19991202
US6458177 BA	20021001	US19990428960	19991104

Priority:

GB19980026410 19981203 GB19990023119 19991001 EP19990120379 19991013
 NZ19990500950 19991110 CA19992291208 19991129

Probable Assignee: SWEDISH MATCH UK LTD**Assignee(s):** (std): SWEDISH MATCH UK LTD**Assignee(s):** COX MICHAEL ; SWEDISH MATCH UK LIMITED**Inventor(s):** (std): COX MICHAEL**Inventor(s):** MICHAEL COX**Agent(s):** SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; OGILVY RENAULT LLP SENCRL SRL; HERBERT DUBNO**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE**11) Family number: 69735547 (RU2653362C)**

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Title: METHOD FOR FUEL BRIQUETTES PRODUCTION FROM WOOD WASTE

Abstract: FIELD: wood industry.SUBSTANCE: invention describes a method fuel briquettes production from wood waste, which includes grinding, drying to a humidity of 12-16 percent, mixing of the mixture ingredients, including technical hydrolytic lignin, while the binding charge is prepared by 5-10 percent sodium carbonate addition to the 70-80 percent technical hydrolytic lignin and further mechanical activation with subsequent addition of 15-20 percent tall oil pit heated to 90 degrees centigrade, the obtained charge in an amount of 10-15 percent is mixed with wood waste, crushed to 1-5 mm in an amount of 85-90 percent and the mixture is briquetted at a temperature of 90 plus or minus 2 degrees centigrade and a pressure of 45-50 MPa.EFFECT: improved processability by reducing pressure while increasing the briquette density, briquette sulphur reduction while maintaining the heat of combustion, with decreased ash.3 tbl

Classifications:**International (IPC 8-9):** C10L5/00 C10L5/40 C10L5/44 (Advanced/Invention)**CPC:** C10L5/44 C10L5/40 C10L5/00 Y02E50/10 Y02E50/30**Family:**

Publication number	Publication date	Application number	Application date
RU2653362 C1	20180508	RU20170112472	20170411

Priority:

RU20170112472 20170411

Probable Assignee: FEDERALNOE GOSUDARSTVENNOE BYUDZHETNOE OBRAZOVATELNOE UCHREZHDENIE VYSSHEGO OBRAZOVANIYA SANKT PETER**Assignee(s):** (std): FEDERALNOE GOSUDARSTVENNOE BYUDZHETNOE OBRAZOVATELNOE UCHREZHDENIE VYSSHEGO OBRAZOVANIYA SANKT PETER**Assignee(s):** FEDERALNOE GOSUDARSTVENNOE BYUDZHETNOE OBRAZOVATELNOE UCHREZHDENIE VYSSHEGO OBRAZOVANIYA SANKT PETERBURGSKIY GOSUDARSTVENNYJ UNIVERSITET PROMYSHLENNYKH TEKHNOLOGIJ I DIZAJNA ; OBRAZOVATELNOE FEDERALNOE STATE BUDGETARY INSTITUTION OF HIGHER EDUCATION ST PETERSBURG STATE UNIV OF TECHNOLOGY AND DESIGN**Inventor(s):** (std): ALEKSANDROV ALEKSANDR VASILEVICH ; PETROV VIKTOR ALEKSANDROVICH**Agent(s):** OTDEL INTELLEKTUALNOJ SOBSTVENNOSTI**12) Family number: 70412607** (CN108264949A)

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Title: MECHANISM CHARCOAL CONTAINING POMELO PEELS**Abstract:** The invention discloses mechanism charcoal containing pomelo peels. The charcoal is prepared from, by weight, 20-25 parts of pomelo peel powder, 10-15 parts of jasmine flower powder, 15-20 parts of rice hull powder, 15-20 parts of peanut shell powder, 60-80 parts of sawdust, 5-8 parts of rosin powder and 5-8 parts of diatomaceous earth; the particle diameter of the pomelo peel powder, the jasmineflower powder, the rice husk powder, the peanut shell powder, the sawdust and the rosin powder is 2-4 mm. The charcoal has the aroma of pomelos and the fresh scent of jasmine flowers during burning, the pomelo peels have the functions of resolving phlegm, relieving a cough, regulating qi and relieving pain, and the mechanism charcoal is mainly used for treating cough and asthma, qi depression and chest distress, abdominal crumodynia, dyspepsia, hernia and the like and can also be used for removing indoor odors and repelling mosquitoes and flies.**Classifications:****International (IPC 8-9):** A61L101/12 A61L101/56 A61L9/01 A61L9/013 C10L5/00 C10L5/40 C10L5/44 (Advanced/Invention); A61L101/12 A61L101/56 (Advanced/Non-invention)**CPC:** C10L5/00 A61L9/01 A61L9/013 A61L2209/21 C10L5/40 C10L5/442 C10L5/445 C10L5/447 Y02E50/10 Y02E50/30**Family:**

Publication number	Publication date	Application number	Application date
CN108264949 A	20180710	CN201710000051	20170101

Priority:

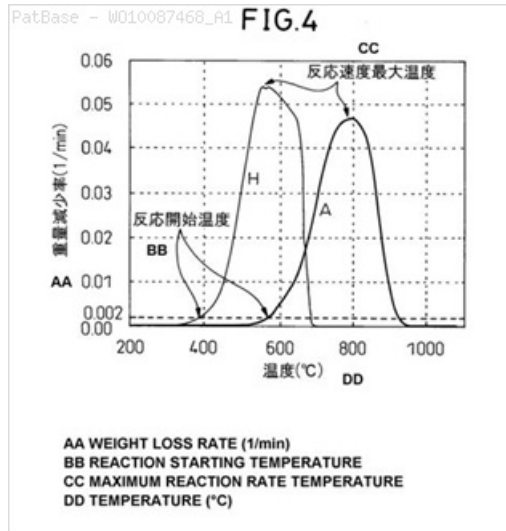
CN201710000051 20170101

Probable Assignee: JIANG PINYUAN**Assignee(s):** (std): JIANG PINYUAN**Assignee(s):** JIANG PRODUCT YUAN**Inventor(s):** (std): JIANG PINYUAN**13) Family number: 46419665** (WO10087468A1)

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Title: CARBONACEOUS MATERIAL FOR SINTERING IRON ORE**Abstract:** Provided is a fuel for sintering iron ore which is less expensive and more efficient in sintering than sintering fuels that have been used conventionally, can improve the productivity of sintered ore and the product yield thereof, and can reduce the emission of nitrogen oxides in the course of the production of the sintered ore. A carbonaceous material to be used as a fuel in sintering iron ore which has the following properties: (i) the reaction starting temperature being lower than or equal to 550 degrees C; (ii) the content of volatile matters (VM) being greater than or equal to 1.0 percent; (iii) the atomic ratio of hydrogen to carbon (H/C) being greater than or equal to 0.040; and (iv) the 0.1-10 micrometres pore volume measured by the mercury porosimetry being greater than or equal to 50 mm³/g.**Classifications:****International (IPC 8-9):** C10B47/30 C10L5/00 C22B1/16 (Advanced/Invention);

C10B47/30 C10L5/00 C22B1/16 (Advanced/Non-invention)

CPC: C10L5/40 C22B1/205 Y02E50/30 C10L5/00 C10B47/30 C22B1/16**European:** C10B47/30 C10L5/00 C10L5/40 C22B1/16 C22B1/20B Y02E50/30**JP F-Term:** 4H012 4H015 4H015/AA11 4H015/AB01 4H015/BA12 4H015/BB11 4H015/CA03 4H015/CB01 4K001 4K001/AA10 4K001/BA02 4K001/CA36 4K001/GA10**JP F-Index:** C10B47/30 C10L5/00 C22B1/16/G

Family:

Publication number	Publication date	Application number	Application date
BRPI1007900 A2	20160216	BR2010PI07900	20100126
BRPI1007900 B1	20180515	BR2010PI07900	20100126
CN102300965 A	20111228	CN201080006351	20100126
CN102300965 B	20140312	CN201080006351	20100126
IN05376DN2011 A	20120928	IN2011DN05376	20110713
IN280287 B	20170217	IN2011DN05376	20110713
JP2010087468 A1	20120802	JP20100525088T	20100126
JP4681688 B1	20110511	JP20100525088T	20100126
JP4681688 B2	20110511	JP20100525088T	20100126
KR101296887 B1	20130814	KR20117014332	20100126
KR20110086638 A	20110728	KR20117014332	20100126
WO10087468 A1	20100805	WO2010JP51312	20100126

Priority:

JP20090021204 20090202 WO2010JP51312 20100126

Probable Assignee: NIPPON STEEL CORP

Assignee(s): (std): KASAMA SHUNJI ; NIPPON STEEL AND SUMITOMO METAL CORP ; NIPPON STEEL CORP ; NOMURA SEIJI

Inventor(s): (std): NOMURA SEIJI ; KASAMA SHUNJI ; SHUNJI KASAMA ; SEIJI NOMURA

Agent(s): AOKI ATSUSHI; ISHIDA TAKASHI; KOGA TETSUJI; AOKI ATSUSHI ET AL

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 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 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 PE PG PH PL PT RO RS RU 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

14) Family number: 42150674 (WO08107042A2)

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Title: IMPROVED COMBUSTIBILITY OF A WASTE PLASTIC BASED FUEL SOURCE

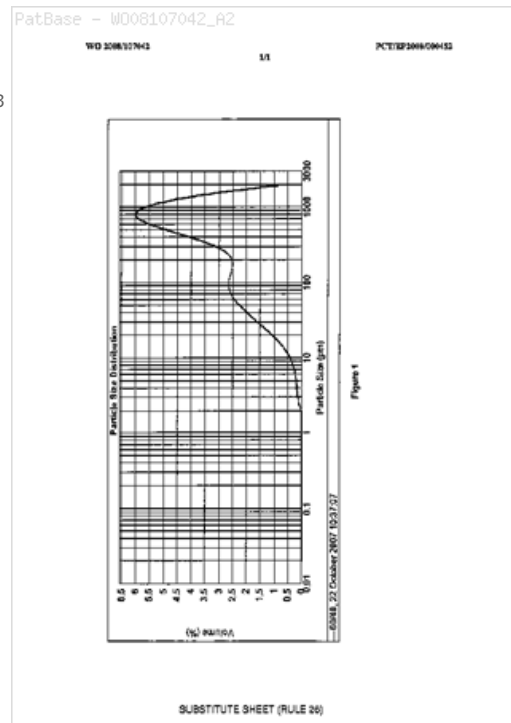
Abstract: This invention relates to a fine particulate material for use as a fuel source or reducing agent derived from waste plastic material comprising: a cellulose component; and a plastic component. The dry weight ratio of the cellulose component to the plastic component is greater than 2:3 and the cellulose/plastic mixture has a particle size distribution such that at least 95 wt percent of the particles in the mixture are less than 2.8 mm, based upon the total dry weight of the cellulose/plastic mixture, and the mode of the particle size distribution is between 0.3 and 2.5 mm.

Classifications:

International (IPC 8-9): C10J3/00 C10L5/00 C10L5/36 C10L5/40 C10L5/44 C10L5/48 (Advanced/Invention); C10L5/00 C10L5/40 (Core/Invention)

CPC: C10J2300/0946 C10L5/44 C10L5/46 C10L5/48 C10L5/00 C10L5/363 C10L5/366 C10L5/40 C10L5/403 C10L5/406 C10L2250/06 C10L2290/02 C10L2290/04 C10L2290/08 C10L2290/143 C10L2290/24 C10L2290/28 C10L2290/30 C10L2290/546 C10L2290/58 C10L2290/60 C10J3/00 Y02E50/10 Y02E50/30

European: C10J3/00 C10L5/00 C10L5/36D C10L5/40 C10L5/44 C10L5/46 C10L5/48 M10J300/09D14 Y02E50/10 Y02E50/30



Family:

Publication number	Publication date	Application number	Application date
DK2129753 T3	20190624	DK20080707184T	20080122
EP2129753 A2	20091209	EP20080707184	20080122
EP2129753 B1	20190313	EP20080707184	20080122
ES2729851 T3	20191106	ES20080707184T	20080122
WO08107042 A2	20080912	WO2008EP00452	20080122
WO08107042 A3	20090115	WO2008EP00452	20080122

Priority:

WO2007EP01954 20070307 EP20080707184 20080122 WO2008EP00452 20080122

Probable Assignee: SUBCOAL INT BV**Assignee(s):** (std): DSM IP ASSETS BV ; KOEKKOEK RALPH ; LINDEN ALFONS MATHEAS GERTRUDES VAN D ; LINDEN ALFONS MATHEAS VAN D ; SCHRISTOFFEL ANTON RUDOLF ; SCHOEN LOEWHARDT ADOLF ALBERT ; NAFID MOHAMMED ; VAN DER LINDEN ALFONS MATHEAS ; VAN DER LINDEN ALFONS MATHEAS GERTRUDES ; ROYAL DSM NV ; SUBCOAL INT BV**Assignee(s):** DSM IP ASSETS B V**Inventor(s):** (std): LINDEN ALFONS MATHEAS GERTRUDES VAN D ; VAN DER LINDEN ALFONS MATHEAS GERTRUDES ; SCHOEN LOEWHARDT ADOLF ALBERT ; LINDEN ALFONS VAN D ; SCHOEN LOEWHARDT ; SCHRISTOFFEL ANTON ; LINDEN ALFONS MATHEAS VAN D ; VAN DER LINDEN ALFONS MATHEAS ; KOEKKOEK RALPH ; NAFID MOHAMMED ; SCHOEN LOEWHARDT ADOLF ALBERT ; SCHRISTOFFEL ANTON RUDOLF**Agent(s):** KIRK MARTIN JOHN; HOYNG ROKH MONEGIER LLP; ARIAS SANZ JUAN; PLOEG A F M J VAN D**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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**15) Family number: 71374701 (CN108611145A)**

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Title: FUEL

Abstract: A fuel is mainly prepared by 2-9 parts of pearl powder, 3-9 parts of sea urchin, 4-11 parts of starfish, 5-12 parts of broken ceramic, 10-23 parts of coconut oil, 2-9 parts of kaolin, 5-9 parts of talcum powder, 4-8 parts of 1, 5, 6-tetrahydrogen benzyl alcohol, 3-11 parts of butylene, 5-10 parts of ethylene oxide, 1-9 parts of vitamin C, 2-12 parts of polyvinyl chloride, 6-9 parts of vegetable powder, 7-9 parts of phenylalanine, 2-16 parts of roselle, 20-24 parts of pitcher grass, 8-13 parts of vinyltrimethoxysilane, 6-9 parts of ferroferric oxide, 1-5 parts of butene and 1-6 parts of modifier, 4-9 parts of zinc oxide, 2-12 parts of iron powder, 4-9 parts of manganese sulfide, 3-7 parts of polysaccharide amino acid and 5-18 parts of turpentine oil. The fuel is made from a large number of herbaceous plants, produces less smoke during combustion, is more environment-friendly and provides more than 20 percent of heat higher than the heat provided by coal.

Classifications:**International (IPC 8-9):** C10L10/02 C10L5/00 C10L5/04 C10L5/40 C10L5/42 C10L5/44 C10L9/10 (Advanced/Invention)**CPC:** Y02E50/30 C10L5/00 C10L5/04 C10L5/40 C10L5/406 C10L5/42 C10L5/44 C10L5/445 C10L9/10 C10L10/02 C10L2230/22**Family:**

Publication number	Publication date	Application number	Application date
CN108611145 A	20181002	CN201611126418	20161209

Priority:

CN201611126418 20161209

Probable Assignee: BO FUCHENG**Assignee(s):** (std): BO FUCHENG**Assignee(s):** THIN FUKUNARI**Inventor(s):** (std): BO FUCHENG**16) Family number: 60168805 (US2015240177A)**

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Title: METHOD FOR MANUFACTURING DRIED COMBUSTIBLE MATERIAL AND DRIED COMBUSTIBLE MATERIAL

Abstract: A method for manufacturing dried combustible material includes: a mixing step of mixing a number of particles made of combustible material containing moisture and a dehydrating liquid made of an emulsion containing synthetic resin to form a mixture in which surfaces of the particles are made contact with the dehydrating liquid; and a drying step of forming a synthetic resin coating made of the dehydrating liquid dried on the surfaces of the particles and evaporating the moisture of the particles, to form coated particles including the particles having a reduced moisture content percentage and the synthetic resin coating that covers the surfaces of the particles, and produce dried combustible material made up of the coated particles.

Classifications:**International (IPC 8-9):** C10L5/00 C10L5/06 C10L5/14 C10L5/32

C10L5/36 C10L5/40 C10L5/42 C10L5/44 C10L5/46 C10L5/48

C10L9/10 (Advanced/Invention)

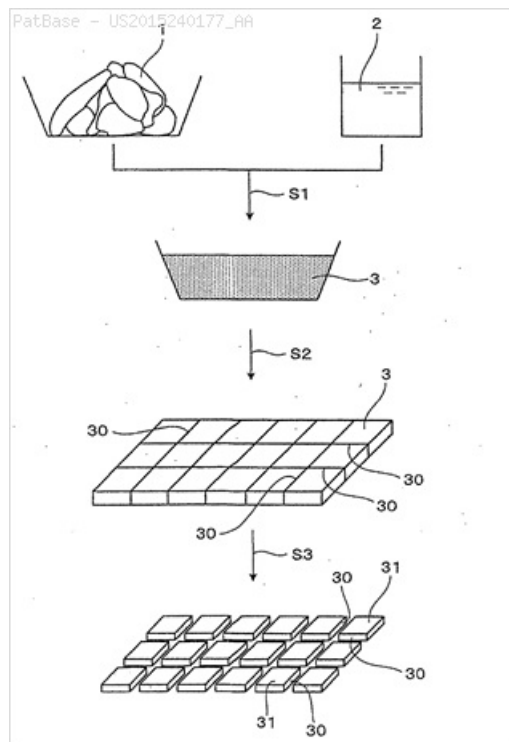
CPC: C10L5/32 C10L5/46 C10L5/48 C10L2200/0469 C10L2250/06

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C10L5/14 C10L5/361 C10L5/42 C10L5/445 C10L2250/04 C10L2290/145

Y02E50/10 Y02E50/30

US: 44/505



Family:

Publication number	Publication date	Application number	Application date
EP3112445 A1	20170104	EP20140783757	20140225
EP3112445 A4	20170927	EP20140783757	20140225
KR101637802 B1	20160707	KR20147033243	20140225
KR20150113812 A	20151008	KR20147033243	20140225
RU2014147612 A	20160620	RU20140147612	20140225
RU2604724 C2	20161210	RU20140147612	20140225
US2015240177 AA	20150827	US20140391960	20140225
US10072226 BB	20180911	US20140391960	20140225
WO15128923 A1	20150903	WO2014JP54410	20140225

Priority:

WO2014JP54410 20140225

Probable Assignee: ACT CO LTD

Assignee(s): (std): ACT CO LTD ; AKT KO LTD

Assignee(s): ACT CO ; AKT KO

Inventor(s): (std): YAMASHITA HIROYUKI ; OKUDA AKIHISA

Agent(s): PRUEFER AND PARTNER MBB PATENTANWALTE RECHTSANWALTE; OLIFF PLC; COSMOS PATENT OFFICE

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

17) Family number: 5182830 (GB2091290A)

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Title: A Combustible Package

Abstract: A combustable package (2) which is of a size suitable for placing on a fire and which comprises a solid fuel in the form of coal (4) or a product of coal and a wrapping (6) which covers the solid fuel to provide a clean surface for storage and handling and which is combustable so as not to adversely affect a fire formed from the combustable package.

Classifications:

International (IPC 8-9): C10L5/00 C10L5/40 (Advanced/Invention)

International (IPC 1-7): C10L5/00

CPC: C10L5/00 C10L5/40 Y02E50/30

European: C10L5/00 C10L5/40 Y02E50/30

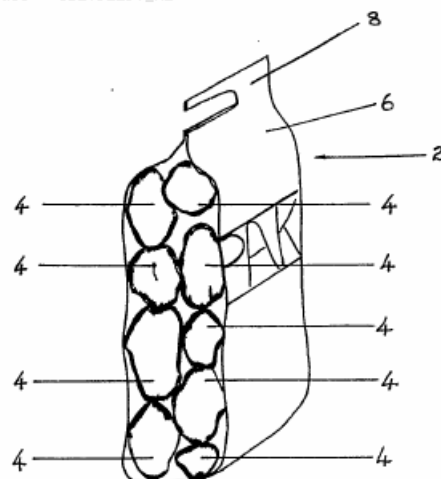


Fig. 2.

Family:

Publication number	Publication date	Application number	Application date
GB2091290 A1	19820728	GB19820000206	19820105

Priority:

GB19810001624 19810120 GB19820000206 19820105

Probable Assignee: SMITH RICHARD GWYNNE

Assignee(s): (std): SMITH RICHARD GWYNNE

18) Family number: 61542860 (KR101589267B)

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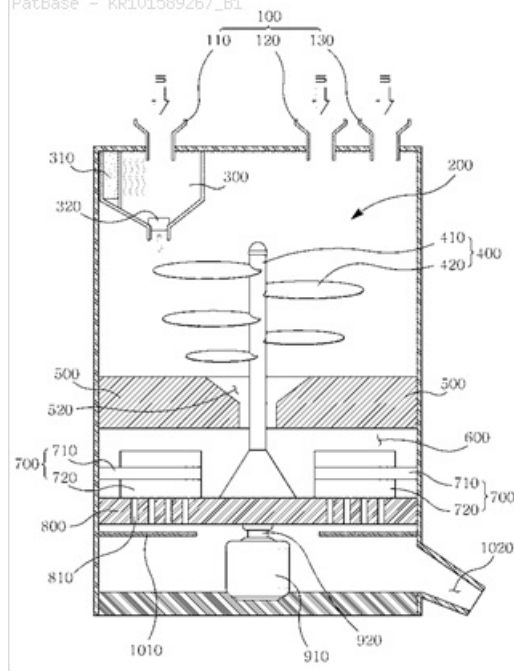
Title: INTEGRATED PELLET FORMING DEVICE

Abstract: The present invention relates to an integrated pellet forming device. More specifically, the integrated pellet forming device comprises: fuel injection ports into which a variety of byproducts or waste fuel in a powder form can be injected from the outside; a drier communicating with the fuel injection ports and drying fuel fed therinto through the fuel injection ports; and a forming device communicating with the drier and forming the dried fuel discharged from the drier into pellets. The fuel injection ports consist of two or more fuel injection ports to inject the fuel in a powder form separately according to water contents. The drier comprises: a hot air drier disposed in one area in the drier to blow hot air of a prescribed pressure towards an upper portion of the drier; and a microwave drier disposed in another area in the drier and connected to a fuel injection port among the fuel injection ports into which fuel having a water content of a prescribed level or higher is injected to lower the water content to the prescribed level or lower by a microwave before the fuel having the water content of the prescribed level or higher is fed therinto.

Classifications:

International (IPC 8-9): C10L5/00 C10L5/40 (Advanced/Invention)

CPC: C10L5/40 C10L5/00 Y02E50/30



Family:

Publication number	Publication date	Application number	Application date
KR101589267 B1	20160128	KR20140193651	20141230

Priority:

KR20140193651 20141230

Probable Assignee:

NA YONG HUN

Assignee(s): (std):

NA YONG HUN

Assignee(s):

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