(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
1 August 2013 (01.08.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/111143 A1

(51) **International Patent Classification**:
C22C 30/06 (2006.01) ***C22C 18/00*** (2006.01)
C22C 5/00 (2006.01) ***C22C 1/00*** (2006.01)
C22C 9/00 (2006.01) ***C22B 5/08*** (2006.01)
C22C 11/00 (2006.01)

(21) **International Application Number**:
PCT/IN2012/000176

(22) **International Filing Date**:
14 March 2012 (14.03.2012)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
286/CHE/2012 24 January 2012 (24.01.2012) IN

(72) **Inventor; and**
(71) **Applicant** : **G.D.ABDHOOL Rahim** [IN/IN]; No: 2 N-Blocks, 90th Ward, Land Mark: Near Bharathi Nagar Bus Stop, Kovaipudur Post, Coimbatore 641 042, Tamilnadu (IN).

(74) **Agent**: **V. SELVARAJAN**; 143/1 Thiruvalluvar Nagar llNd Cross, Vadavalli, Coimbatore 641 046, Tamil Nadu (IN).

(81) **Designated States** *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*

WO 2013/111143 A1

(54) **Title**: ALLOY CONTAINING PRECIOUS METALS AND ITS METHOD OF PREPARATION BY USING HERBAL EXTRACTS

(57) **Abstract**: An alloy containing precious metals comprises copper 18 ± 5%, zinc 36 ± 5%, lead 18 ± 5%, iron 12 ± 5% and trace quantities of precious metals such as gold, silver, and palladium etc. The alloy is produced by using extracts of nineteen herbarls.

THE PATENTS ACT, 1970

(39 OF 70)

&

THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

(See section 10 and rule 13)

Title:

ALLOY CONTAINING PRECIOUS METALS AND ITS METHOD OF PREPARATION BY USING HERBAL EXTRACTS

Applicant:

G.D.ABDHOOL RAHIM
No: 2 N-Blocks, 90th Ward,
Land Mark: Near Bharathi Nagar Bus Stop,
Kovaipudur Post, Coimbatore-641042.
Tamilnadu, South India
Mobile No – 93631 21422
E – Mail: alchemy_alchemists@yahoo.co.in

The following specification particularly describes the invention and the manner in which it is to be performed:

This invention relates to precious metals containing alloy and its method of preparation by using extracts of nineteen herbals in a unique way.

The alloy obtained by this method is novel and useful in making ornaments and finds some applications in preparing integrated circuit components, locomotives,television components, electrical components etc. Because of the precious characteristics of the alloy, it is the cheapest substitute for making jewelry.

Apart from the precious characteristics of the alloy of this invention, its preparation method is also novel in using the extracts of nineteen herbals.

The raw materials required for preparing this alloy are four chemicals, viz.,

1. Copper Sulphate
2. Zinc Sulphate
3. Lead Sulphate
4. Iron Sulphate

Apart from the raw materials mentioned above, five utility chemicals are also used in making this alloy. The five utility chemicals are as follows:

1. Sulphur
2. Cinnabar
3. Potassium Nitrate
4. Borax
5. Ammonium Chloride

The nineteen herbals used in preparing the alloy mentioned in the invention are as follows:

1. Dodonaea -Angustifolia
2. Ricinus-Communis

3. Citrus-Medica
4. Eclipta-Procera
5. Siddacuta
6. SesbaniaAegyptiaca
7. Daturametel
8. OcimumSanetum
9. Piper Betle
10. Phyllanthusurinaria
11. Acalypha-Indica
12. Sphyeranthus-Indicus
13. GossypiumArboreum
14. Musaparadisiaca
15. CynodonDactyion
16. HeliotRopiumIndicum
17. Caricapapaya
18. OcimumBasilicum
19. Sacharum-Officinarum

After a lot of research, I have invented this new and useful alloy. Accordingly, this invention provides a precious metals containing alloy comprising copper, zinc, lead and ironand precious metals gold, silver, and Palladium Etc, Etc, in trace quantities.

The composition of the precious metals containing alloy of this inventionis as follows:

1) Copper 18 ± 5%
2) Zinc 36 ±5%
3) Lead 18 ± 5%
4) Iron 12 ± 5%

and precious metals Gold, Silver, and Palladium Etc, Etc, are present in trace amounts.

Before discussing the process of preparation of the alloy, I would like to describe the process of preparing the herbal extracts.

Preparation of herbal extracts:

Each 100gm of the nineteen herbs mentioned above is taken in separate dishes and to each dish 100ml of cow urine is added and is kept sealed airtight for five hours.

After five hours, the herbs are removed and air-dried. Then the herbs are crushed individually and squeezed to get the extracts. The extracts thus obtained are stored separately.

Preparation of the alloy:

In a crucible, 35gm each of the chemical ingredients, viz.,

1) Copper Sulphate
2) Zinc Sulphate
3) Lead Sulphate
4) Iron Sulphate

and35gm each of the five utility chemicals

1) Sulphur
2) Cinnabar
3) Potassium Nitrate
4) Borax
5) Ammonium Chlorideare taken and mixed thoroughly.

To the above mixture, 0.10 ml of each of the nineteen herbal extracts, obtained as above, is added and 1.9ml of cow urine is also added.

All these are thoroughly mixed in the crucible and kept in a furnace and heated to a temperature of 900°C and then the temperature is gradually raised to 2000°C and maintained at that temperature for 60 minutes. At this stage the alloy is formed. After cooling, the alloy formed is taken out. Thus obtained impure alloy is purified by immersing in a mixture of three times the weight of cow urine and two times the weight of the sulphuric acid of the alloy for twenty fourhours.

The alloy is then cleaned with waterand metal brush. The alloy thus obtained is assayed for its composition by using X-ray fluorescence spectrometer and atomic absorption spectrometer.

Though the invention has been described with reference to the above example, any minor modification, variation, alteration should be construed to be falling within the scope of this invention.

I claim:

1. A precious metals containing alloy comprising copper, zinc, leadand iron and precious metals gold, silver, and Palladium Etc, Etc, in trace quantities.

2. The precious metals containing alloy as claimed in claim 1 wherein the composition of the alloy is as follows:

1) Copper 18 ± 5%

2) Zinc 36 ±5%

3) Lead 18 ± 5%

4) Iron 12 ± 5%

and precious metals Gold, Silver, and Palladium Etc, Etc, in trace amounts.

3. A method of preparing precious metals containing alloy comprising the following steps:

i)In a crucible, 35gm each of the chemical ingredients, viz.,

1) Copper Sulphate

2) Zinc Sulphate

3) Lead Sulphate

4) Iron Sulphate

and 35gm each of the five utility chemicals,viz.,

1) Sulphur

2) Cinnabar

3) Potassium Nitrate

4) Borax

5) Ammonium Chloride are taken and

ii) To this mixture, 0.10ml of each of the nineteen herbal extracts, obtained as above, is added and 1.9ml of cow urine is also added and

iii) All these are thoroughly mixed in the crucible and kept in a furnace and heated to a temperature of 900°C and then gradually raised to 2000°C and maintained at that temperature for 60 minutes;

iv) After cooling, the alloy formed is taken out. Thus obtained impure alloy is purified by immersing in a mixture of three times the weight of cow urine and two times the weight of the sulphuric acid of the alloy for twenty four hours and

v) The alloy is then cleaned with metal brush and water.

Dated this 20th January 2012

V. SELVARAJAN
PATENT AGENT
Reg. No. IN/PA 1485
154/1, Thiruvalluvar Nagar,
II Cross, Vadavalli,
COIMBATORE 641 046.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IN2012/000176

A. CLASSIFICATION OF SUBJECT MATTER

See extra sheet

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: C22C30/-, C22C5/-, C22C1/-, C22C9/-, C22C11/-, C22C18/-, C22B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CNKI,CNPAT,WPI,EPODOC: precious metal?, precious alloy?, Cu, Zn, Pb, Fe, Au, Ag, Pd, gold, silver, palladium, copper, cuprum, zinc, lead, iron, herb????, heat+, temperature?

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP60036638 A (NIHON GENMA KK) 25 Feb. 1985 (25.02.1985) see pages 6-7,	1-2
A	see the whole document	3
X	GB2047740 A (PACKER ENG ASSOC et al.) 02 Dec. 1980 (02.12.1980) see claims 1-14,	1-2
A	see the whole document	3
A	JP1177327 A (SANPO SHINDO KOGYO) 13 Jul. 1989(13.07.1989) see the whole document	1-3
A	US4446102 A (BALES R L) 01 May 1984(01.05.1984) see the whole document	1-3
A	CN101451198 A (HUANGSHI COLLEGE TECH) 10 Jun. 2009(10.06.2009) see the whole document	1-3

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
18 Oct. 2012(18.10.2012)	**08 Nov. 2012 (08.11.2012)**
Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451	Authorized officer YAN Xiaoming Telephone No. (86-10)62084044

Form PCT/ISA /210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/IN2012/000176

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
JP60036638 A	25.02.1985	NONE	
GB2047740 A	03.12.1980	NL8001776 A	30.09.1980
		JP55128396 A	04.10.1980
		JP57054239 B	17.11.1982
		GB2047740 B	16.03.1983
		CA1165647 A	17.04.1984
		IT1194623 B	22.09.1988
		US4451541 A	29.05.1984
		JP1160410 C	10.08.1983
JP1177327 A	13.07.1989	JP4069218 B	05.11.1992
		JP1782678 C	31.08.1993
US4446102 A	01.05.1984	NONE	
CN101451198 A	10.06.2009	CN100591783 C	24.02.2010

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IN2012/000176

Continuation of: second sheet, A. CLASSIFICATION OF SUBJECT MATTER

C22C 30/06 (2006.01) i
C22C 5/00 (2006.01) i
C22C 9/00 (2006.01) i
C22C 11/00 (2006.01) i
C22C 18/00 (2006.01) i
C22C 1/00 (2006.01) i
C22B 5/08 (2006.01) i