

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 July 2007 (19.07.2007)

PCT

(10) International Publication Number
WO 2007/081937 A3

(51) International Patent Classification:
C21D 1/62 (2006.01)

(21) International Application Number:
PCT/US2007/000503

(22) International Filing Date: 9 January 2007 (09.01.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/757,434 9 January 2006 (09.01.2006) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

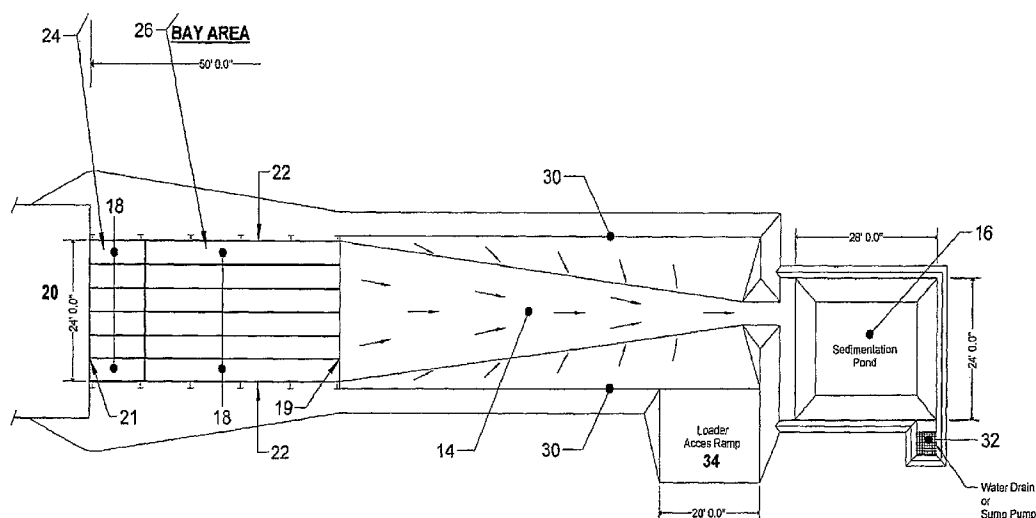
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
29 November 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: LIQUID SLAG QUICK QUENCHING APPARATUS AND METHOD



(57) Abstract: An apparatus and method for quick quenching liquid slag, which includes a bay area for receiving the liquid slag and a water supply system for spraying, or quick quenching, the liquid slag provided on the bay area with water to cool the liquid slag and turn it into a crystalline form. The bay area includes an angled and generally flat surface provided between first and second ends, with the first end defining a high end and the second end defining a low end, such that liquid slag provided to the bay area adjacent the first end will run down the bay area toward the second end. The water supply system is provided operatively above the bay area and applies water to the liquid slag on the bay area such that the liquid slag cools and turns into a crystalline form. Additional amounts of liquid slag may be poured on top of previous cooled and quenched crystalline slag and quick quenched with water in a similar manner.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 07/00503

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - C21D 1/62 (2007.01)

USPC - 266/134

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(8) - C21D 1/62 (2007.01)

USPC - 266/134

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC 106/624

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST, Google Patents Database, Google Scholar Database
(quick quenching, liquid, slag, bay area, water supply system, trough, platform, sedimentation pond, crystalline, pressure)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2,210,999 A (BARTHOLOMEW) 13 August 1940 (13.08.1940), Figure 1, Figure 4, column 3, line 45-74, column 4, line 37-41, line 50-53, column 5, line 30-45	1-27

☐ Further documents are listed in the continuation of Box C.

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

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Date of the actual completion of the international search

05 August 2007 (05.08.2007)

Date of mailing of the international search report

01 OCT 2007

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

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