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May 18, 2017

(12) **United States Design Patent** (10) Patent No.: **US D478,999 S**
Jobs et al. (45) Date of Patent: **** Aug. 26, 2003**

(54) **STAIRCASE**

(75) Inventors: **Steve Jobs**, Palo Alto, CA (US); **Karl Backus**, Emeryville, CA (US); **Rosa Sheng**, Emeryville, CA (US); **Ben McDonald**, San Francisco, CA (US); **Michael Waltner**, Berkeley, CA (US); **Colleen Caulliez**, San Francisco, CA (US); **James O'Callaghan**, New York, NY (US); **Graham Coult**, London (GB); **Damian Rogan**, New York, NY (US); **Scott Nelson**, Cirencester (GB)

(73) Assignee: **Apple Computer, Inc.**, Cupertino, CA (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/164,077**

(22) Filed: **Jul. 15, 2002**

(51) **LOC (7) Cl.** **25-04**

(52) **U.S. Cl.** **D25/62**

(58) **Field of Search** D25/62, 69; 52/182, 52/184, 188, 190, 191

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Primary Examiner—Doris Clark

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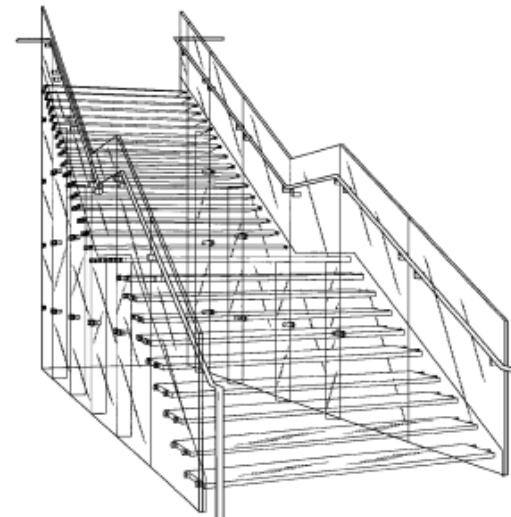
(57) **CLAIM**

We claim the ornamental design for a staircase, substantially as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a staircase in accordance with the present design. The staircase has a transparent character. FIG. 2 is a front view for the staircase shown in FIG. 1. FIG. 3 is a rear view for the staircase shown in FIG. 1. FIG. 4 is a left side view for the staircase shown in FIG. 1. FIG. 5 is a right side view for the staircase shown in FIG. 1. FIG. 6 is a top view for the staircase shown in FIG. 1; and, FIG. 7 is a bottom view for the staircase shown in FIG. 1.

1 Claim, 7 Drawing Sheets





US00D577976S

(12) **United States Design Patent** (10) **Patent No.:** **US D577,976 S**
Reiter (45) **Date of Patent:** ** **Oct. 7, 2008**

(54) **POWER DRILL FOR LOOSENING SOIL.**

(76) Inventor: **John P. Reiter**, 6521 Stevens Ave.
South, Richfield, MN (US) 55432

(**) Term: **14 Years**

(21) Appl. No.: **29/304,224**

(22) Filed: **Feb. 27, 2008**

(51) **LOC (S) CL.** **08-03**

(52) **U.S. CL.** **D8/70**

(58) **Field of Classification Search** D8/70,
D8/71; D15/21, 28, 138, 139, 140; 33/169 R,
33/185 R, 334; 76/18 A, 18 R, 18 T; 81/DIG. 5;
125/40; 145/116 R; 175/40; 408/16, 144,
408/202, 210, 211, 212-214, 223, 225, 226,
408/241 R, 241 S

See application file for complete search history.

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Assistant Examiner—Patricia Palusik
(74) *Attorney, Agent, or Firm*—Alan Kamrath; Kamrath &
Associates PA

(57) **CLAIM**

The ornamental design for a power drill for loosening soil, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a power drill accessory for loosening Soil showing my new design;

FIG. 2 is a front view thereof;

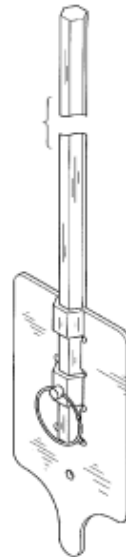
FIG. 3 is a rear view thereof;

FIG. 4 is a right view thereof the opposite side being a mirror image thereof;

FIG. 5 is a top view thereof; and,

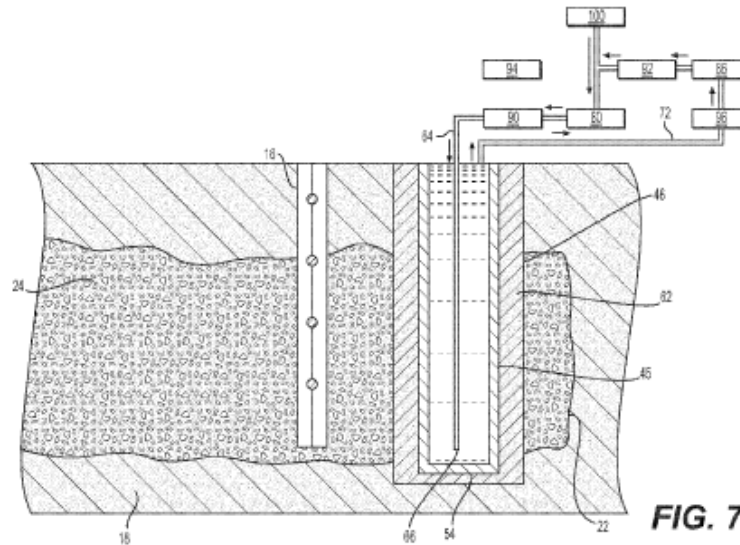
FIG. 6 is a bottom view thereof.

1 Claim, 6 Drawing Sheets



(19) **United States**(12) **Patent Application Publication**
CAREY(10) **Pub. No.: US 2017/0087607 A1**(43) **Pub. Date: Mar. 30, 2017**(54) **SYSTEM AND METHOD OF HEAT
EXTRACTION FOR PREVENTING OR
MITIGATING A LANDFILL SUBSURFACE
REACTION**(52) **U.S. CL**CPC *B09B 1/00* (2013.01); *B09B 1/006*
(2013.01); *F28D 15/00* (2013.01); *F28F 27/00*
(2013.01); *F28F 21/04* (2013.01); *F28F*
2200/00 (2013.01); *F28F 2250/08* (2013.01);
F28F 2275/06 (2013.01)(71) Applicant: **BRIDGETON LANDFILL, LLC,**
BRIDGETON, MO (US)(72) Inventor: **PETER J. CAREY, SUGAR HILL,**
GA (US)(57) **ABSTRACT**(21) Appl. No.: **15/275,351**(22) Filed: **Sep. 24, 2016****Related U.S. Application Data**(60) Provisional application No. 62/233,005, filed on Sep.
25, 2015.**Publication Classification**(51) **Int. Cl.**
B09B 1/00 (2006.01)
F28F 27/00 (2006.01)
F28F 21/04 (2006.01)
F28D 15/00 (2006.01)

Disclosed is a system for preventing or mitigating elevated temperatures within a landfill. The system comprises at least one water tight heat exchange unit with a lower edge and an upper edge, wherein the placement of the heat exchange unit is at least one of (1) within the waste mass proximate the area of elevated temperature, or (2) within the area of elevated temperature, the at least one heat exchange unit fabricated to resist differential settlement forces within the landfill as well as the elevated temperatures. The system further includes piping configured to discharge a cooling fluid within the heat exchange unit and a heat exchanger for ejecting heat from the cooling fluid and at least one temperature probe configured to measure the temperature of the waste mass. The system utilizes a pump adapted to circulate the cooling fluid within the piping system and to the heat exchange unit.



(12) **United States Patent**
Villamagna(10) **Patent No.:** **US 9,393,519 B2**
(45) **Date of Patent:** **Jul. 19, 2016**(54) **WASTE DISPOSAL**(71) Applicant: **Strategic Environmental & Energy Resources, Inc.**, Commerce City, CO (US)(72) Inventor: **Fortunato Villamagna**, Las Vegas, NV (US)(73) Assignee: **Strategic Environmental & Energy Resources, Inc.**, Golden, CO (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **14/523,666**(22) Filed: **Oct. 24, 2014**(65) **Prior Publication Data**

US 2015/0044115 A1 Feb. 12, 2015

Related U.S. Application Data

(63) Continuation of application No. 13/782,877, filed on Mar. 1, 2013, now Pat. No. 8,870,735.

(60) Provisional application No. 61/648,377, filed on May 17, 2012.

(51) **Int. Cl.**
A62D 3/19 (2007.01)
B01D 53/30 (2006.01)
B01D 53/76 (2006.01)
B09B 3/00 (2006.01)(52) **U.S. Cl.**
CPC *B01D 53/76* (2013.01); *A62D 3/19* (2013.01);
B01D 53/30 (2013.01); *B01D 2259/818*
(2013.01); *Y10S 423/10* (2013.01); *Y10S 588/90*
(2013.01)(58) **Field of Classification Search**CPC B01D 53/007; B09B 3/00; B09B 3/0075;
A62D 3/19; A62D 2101/20
See application file for complete search history.(56) **References Cited**

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Primary Examiner — Timothy Vanoy(74) *Attorney, Agent, or Firm* — HolzerIPLaw, PC(57) **ABSTRACT**

The waste disposal system disclosed herein includes a chamber operated at high ampere and low voltage, the chamber configured to inject smoke on a stream of free radicals. In one implementation, the stream of free radicals is generated from a plasma igniter and the smoke is generated from waste products, such as hospital waste products.

19 Claims, 11 Drawing Sheets