

AIPROV

PTO/SB/16 (10-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

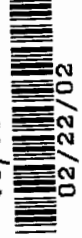
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No.

Jc997 U.S. PTO 60/358534



02/22/02

INVENTOR(S)

Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)
JAMES ANDREW	SENKIW	MINNEAPOLIS MINNESOTA

Additional inventors are being named on the _____ separately numbered sheets attached hereto

TITLE OF THE INVENTION (500 characters max)

AQUATIC OXYGEN GENERATOR

Direct all correspondence to: CORRESPONDENCE ADDRESS

Customer Number → Place Customer Number Bar Code Label here

OR Type Customer Number here

Firm or Individual Name: JAMES SENKIW

Address: 4750 ALDRICH AV N

City: MINNEAPOLIS State: MN ZIP: 55430-3529

Country: USA Telephone: 612-588-0579 Fax:

ENCLOSED APPLICATION PARTS (check all that apply)

Specification Number of Pages: 1 CD(s), Number:

Drawing(s) Number of Sheets: 2 Other (specify):

Application Data Sheet. See 37 CFR 1.76

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT

Applicant claims small entity status. See 37 CFR 1.27. FILING FEE AMOUNT (\$):

A check or money order is enclosed to cover the filing fees

The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number:

Payment by credit card. Form PTO-2038 is attached.

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

No.
 Yes, the name of the U.S. Government agency and the Government contract number are:

Respectfully submitted,

SIGNATURE _____

TYPED or PRINTED NAME JAMES SENKIW

TELEPHONE 612-588-0579

Date 2-5-2002

REGISTRATION NO.

(if appropriate)

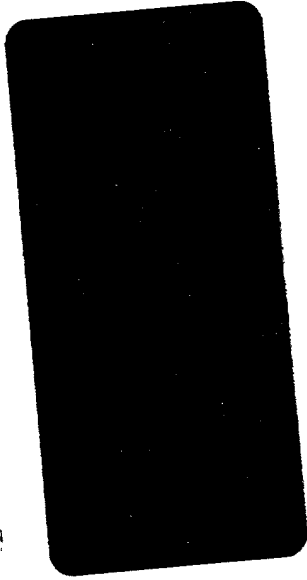
Docket Number:

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

20250114 14:53:53

James Senkiw
4750 Aldrich Av N
Mpls, MN 55430



2001/11/14/2002 2-370/1774

BOX PROVISIONAL PATENT APPLICATION
COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

RETURN RECEIPT
REQUESTED
FEB 22 2002
PTO MAIL CENTER

1c997 U.S. PTO
60/358534



02/22/02



SPECIFICATION

AQUATIC OXYGEN GENERATOR

An oxygen generating device used to extend the life of fish in bait buckets and live wells.

The device is placed in a water filled bait bucket or live well, and cyclically turns on an oxygen evolving anode.

The product consists of the following components:

1. Power Source; (external 12 volt dc or internal rechargeable 6 or 9 volt dc)
2. Anode; Iridium Oxide Coated Titanium or Stainless Steel 1.5" x 1.5" x .0156".
3. Cathode: Stainless Steel mesh 1/32 spacing
4. Control/Timing circuit;
5. Power management system, in which the Oxygen Button power is separated from the control/timing system. This allows for a predictable operating time, which can be as long as 96 contiguous hours.

An enclosure which houses the Oxygen Button and the control circuitry.

The main component of the device is the Oxygen Button. It consists of:

The Oxygen Evolving Anode consists of a 1.5 x 1.5 x .0156 inch thick titanium sheet coated on one side with iridium oxide

The cathode is made of 1/32 inch stainless steel screen mesh

The anode and cathode are separated by a 1/64 inch fiberglass spacer which electrically isolates the anode and cathode

Electrical connections are made mechanically to the anode and the cathode the above assembly is installed in an enclosure and sealed with epoxy or similar potting material to insure the interior of the enclosure does not get contaminated with water.

The oxygen button is connected to a power source via a control relay. The coil of the relay is connected to a timer control circuit.

The timer device is regulated via a temperature sensing device to determine the on/off ratio to regulate the amount of oxygen generated by the device.

Power sources for the timer control circuit and the oxygen button are batteries which are connected to a charging circuit which allow for recharging batteries from a commercially available power source. Recharge time for the generator is approximately one hour. The run time for the device on a full charge is approximately 96 hours.

AQUATIC OXYGEN GENERATOR

JAMES A. SENKIW (612) 588-0579

Date 2/5/02
Page 1 of 2

Fig 1

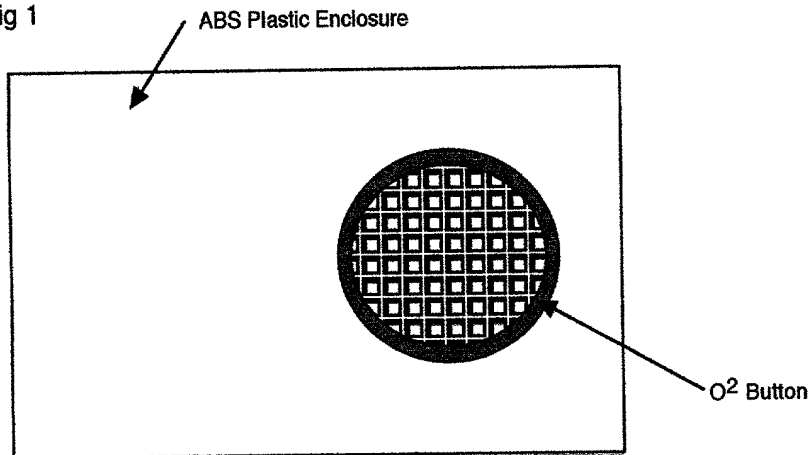
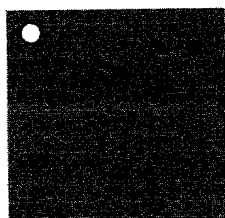
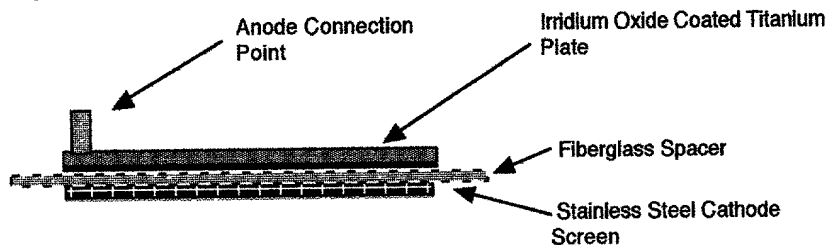
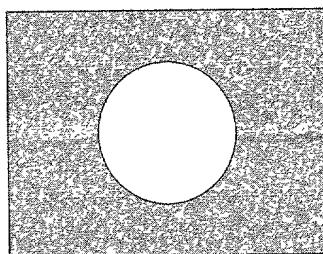


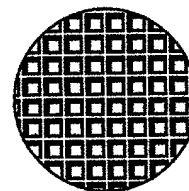
Fig. 2 O² Button



Iridium Oxide Coated Titanium Plate



Fiberglass Spacer



Stainless Steel Cathode Screen

AQUATIC OXYGEN GENERATOR
JAMES A. SENKIW (612) 588-0579

Date 2/5/02
Page 2 of 2

