

07-08-1998

FORM PTO-1595

(Rev. 6-93)

R



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

OMB No. 0651-0011 (exp. 4/94)

100756719

JUN 26 1998

Tab settings => => => ▼

To the Assistant Commissioner for Patents:
Please record the attached original documents or copy thereof.

6-24-98

1. Name of conveying party(ies):

Larry G. OFFUTT

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Arch Technology Corporation

Internal Address: _____

Street Address: CityPlace One, Suite 300

City: St. Louis

State: MO ZIP: 63141-7056

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: June 5, 1998

4. Application number(s) or patent number(s):

If this document is being filed together with a new application,
the execution date of the application is: _____

A. Patent Application No.(s)

09/037,405, filed March 10, 1998

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Richard L. Byrne

Internal Address: Webb Ziesenheim Bruening

Logsdon Orkin & Hanson, P.C.

Street Address: 700 Koppers Building

436 Seventh Avenue

City: Pittsburgh State: PA ZIP: 15219-1818

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

(Attach triplicate copy of this page if paying by deposit account)

07/06/1998 DMSJYEN 00000031 09037405

01 FC 581

40.00 OP

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Richard L. Byrne
Name of Person Signing
Registration No. 28,498

Signature

June 22, 1998
Date

Total number of pages including cover sheet, attachments and document

3

Mail documents to be recorded with required cover sheet information to:
Assistant Commissioner for Patents, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 9280 FRAME: 0119

ASSIGNMENT

WHEREAS, I, LARRY G. OFFUTT, residing in Shorncliffe, Queensland, Australia, together with DAVID A. CHRISTOPHER, have invented certain new and useful improvements in "ELECTRICAL CONTROL SYSTEM FOR APPARATUS AND METHOD FOR CONTINUOUS UNDERGROUND MINING" for which a patent application was filed in the United States Patent and Trademark Office on March 10, 1998 and bears Serial No. 09/037,405;

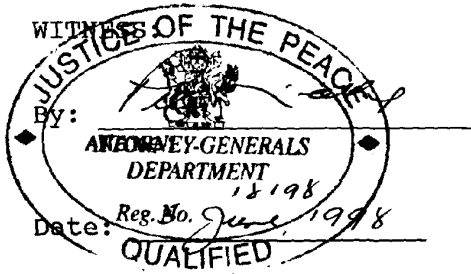
AND, WHEREAS ARCH TECHNOLOGY CORPORATION, a corporation of Delaware having a place of business at CityPlace One, Suite 300, St. Louis, Missouri 63141-7056, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by me had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owner of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests

herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.



Inventor: *Larry G. Offutt*
Larry G. Offutt

Date: 5 June 98