

INSTRUCTIONS

ASSIGNMENT OF U.S. RIGHTS TO CORPORATION

WHEREAS,

Inventor(s) Name,
Address, Citizenship

1. Alfons HESSE residing at Antoniusstrasse 18, 57368 Lennestadt, Germany and a citizen of Germany;
2. Franz-Josef PÜTTMANN residing at Winterberger Strasse 52, 67368 Lennestadt, Germany and a citizen of Germany;

Date Patent Declaration
Signed and Title Serial
No. and filing date (if
known)

(herein called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States on _____ for this invention, which application is entitled METHOD AND APPARATUS FOR DIRECTIONAL BORING and which has been given Serial Number 09/123,036 and the filing date of July 27, 1998;

Name of Corporation

AND WHEREAS Tracto-Technik Paul Schimdt Spezialmaschinen (herein called "ASSIGNEE"), a corporation organized under the laws of Germany, and having an office and place of business at Reiherstrasse 2, 57368 Lennestadt, Germany

State or Country of
Incorporation and Address

wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign and transfer to the ASSIGNEE, its successors and assigns, the entire right, title and interest for the United States in and to the invention disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents to issue any and all United States Letters Patent for the aforesaid invention to the ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE its successors and assigns, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Each inventor must sign & date

Alfons Hesse 30.09.1998
Signature Date

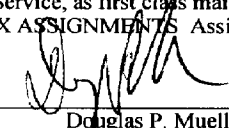
Note: No legalization or other
witness required

F. J. Püttmann 30.09.1998
Signature Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alfons HESSE et al. Examiner: unknown
Serial No.: 09/123,036 Group Art Unit: 3625
Filed: July 27, 1998 Docket: 11450.48US01
Notice of Allow. Date: N/A Batch No.: N/A
Due Date: October 12, 1998
Title: METHOD AND APPARATUS FOR DIRECTIONAL BORING

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described hereinabove, are being deposited in the United States Postal Service, as first class mail, with sufficient postage, in an envelope addressed to: ASSIGNMENT DIVISION: BOX ASSIGNMENTS Assistant Commissioner for Patents, Washington, D.C. 20231, on October 7, 1998.

By: 
Douglas P. Mueller

ASSIGNMENT DIVISION: BOX ASSIGNMENTS
Assistant Commissioner for Patents
Washington, D.C. 20231

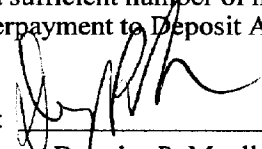
Sir:

We are transmitting herewith the attached:

- Transmittal Sheet in duplicate containing Certificate of Mailing
- Assignment of the invention to Tracto-Technik Paul Schimdt Spezialmaschinen, Recordation Form Cover Sheet, and fee of \$40.00
- Return postcard

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers, if appropriate. Please charge any additional fees or credit overpayment to Deposit Account No. 13-2725. A duplicate of this sheet is enclosed.

MERCHANT, GOULD, SMITH, EDELL,
WELTER & SCHMIDT
3100 Norwest Center, Minneapolis, MN 55402
(612) 332-5300

By: 
Name: Douglas P. Mueller
Reg. No.: 30,300
DPM/smh

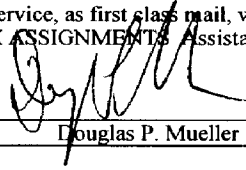
(PTO TRANSMITTAL - GENERAL)

PATENT
REEL: 9522 FRAME: 0054

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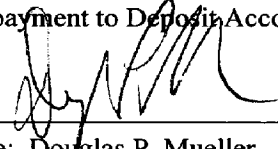
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RECORDED: 10/14/1998

PATENT
REEL: 9522 FRAME: 0055