

H. TRACY HALL, INCORPORATED

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10 October 1977

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Prof. Y. Yarnitsky,
Head of Diamond Research Lab.
Faculty of Mechanical Engineering
Stone Research Centre
Israel Institute of Technology
Haifa, Israel

Dear Prof. Yarnitsky:

Thank you for your letter of September 16, 1977. Our corporation manufactures equipment capable of simultaneous generation of 1,000,000 pounds per square inch pressure and 3200° F temperature. This equipment is capable of synthesizing diamond from graphite and can also produce diamond compacts, cubic boron nitride, etc.

We only sell apparatus. We do not sell detailed process information for diamond making. However, we do demonstrate the general elementary procedure for making diamond grit.

We manufacture equipment rated from 200 to 3000 ton ram size. We have on hand one 300 ton cubic press suitable for research and developmental or pilot plant production of diamond.

I have enclosed a Polaroid Photo of this machine. Its price is \$106,000.00US plus a 10% (\$10,600.00) royalty which I must pay to the patent owners.

I can not answer your question concerning the black platelets given to you by Dr. Samuel Greenfield. I gave some materials to him but do not know what he passed on to you.

I am enclosing my biographical sketch and also a few of my publications.

Very truly yours,

H. Tracy Hall

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TECHNION — ISRAEL INSTITUTE OF TECHNOLOGY

FACULTY OF MECHANICAL ENGINEERING — הפקולטה להנדסת מכונות



מרכז טכנולוגית אבן
STONE TECHNOLOGY CENTRE

פרופ' ירניצקי
Prof. Y. YARNITSKY

September 16, 1977

H. TRACY HALL Incorporation
P.O.Box 7533 University Station
PROVO UTAH 84601
U. S. A.

Dear Sir,

I was informed that you produce and sell equipment for artificial diamonds.

We, the Diamond Industrial laboratory here of the Technion - Israel Institution of Technology are interested to get detailed information about this process. What type of syntetic diamonds can be produced and what is the quantity which one unit can give per day?

Can the compacts be done on the same press?
What is the capacity of the proposed press?

A friend of Dr. Samuel Greenfield from New York who came to Israel gave me some samples of black platlets which are soft. Is it compressed diamond powder? One piece was thicker and it was written upon it "Diamond Run". What does this mean?

Please send me possible information as well as price of the unit?

I have asked some of my friends in the U.S.A. to contact you, for more detailed information.

My laboratory is devoted to research in the field of diamonds and is sponsored by the Israely Diamond Institution.

Thank you in advance for a prompt reply.

Sincerely Yours
Prof. Y. Yarnitsky
Y. Yarnitsky
Head of Diamond Research lab.