PLAINTIFF'S EXHIBIT
UC-369

RECEIVED
SEP - 6 1977

R. M. Eichhorn

August 30, 1977

(2) B-1

Invention Letter No. 77-32 has been assigned to your letter of August 18, 1977, on Chrysotile Asbestos as Voltage Stabilizer in Polyolefins.

Please refer to this Invention Letter No. on all future correspondence on this subject.

A. J. Cozzi/G. R. O'Brien

We're trying hard, as you know, to bring a voltage stabilized (treeing resistant) dielectric compound to market --- within the next few months, if possible. Presently, the action is centered on the silane modified materials of IL-77-24.

Functionally, asbestos appears to be at least as good - perhaps even a better voltage stabilizer than the silanic compounds, but its use raises some sharp questions about toxicology and the associated handling, customer acceptance and allied considerations. Secondarily, asbestos opacifies the composition -- and the clarity of pe dielectrics has been touted as an advantage; but this may not be a serious problem.

In other words, this is good technology functionally, but it is not currently - for the reasons stated above - our first choice. However, if the presently preferred voltage stabilizer candidates do not make it, asbestos will almost certainly be earnestly re-considered --- by UCC and/or others including (or perhaps especially) those in other countries which may be less concerned with the toxicological or opacity aspects.

Please plan to file in due course.

A copy of Eichhorn's Project Report #5594 is enclosed.

V. Auerbach

/vob

CPU: 221, PC: 261, MKT: 223

CC: R. L. Boysen
R. E. Byrne - N. F.
A. J. Cozzi
S. Gates/W. T. Higgins
R. H. Handwerk
B. W. Kiff
J. S. Nicholas
G. R. O'Brien
D. M. Papuga/J. J. O'Connell
D. L. Schober
R. G. Shaw
J. M. Stains
W. C. Thurber - NY

RECEIVED

AUG 31 1977

8/30/77

W. C. Thurber

Copies of I.L. and Project Report on an application for Calidria Asbestos are sent to you by request of Bob Byrne & Vic Averbach.

Bob Eichhorn
Bound Brook
x-2060

INVENTION LETTER Cover Sheet 1 of 2 IL-

UNION CARBIDE CORP.
Bound Brook, N.J.

Title Chrysotile Asbestos as Dielectric Filler in Ethylene Polymers and Copolymers

Contributor(s) R.M. Eichhorn

DATE:

ABSTRACT (point out novel features & utility)

Bus.Area Nos.		File
Opratns.	Mkt.	
		Group

The use of "Calidria Asbestos", which is a special form of crysotile asbestos, as a filler in ethylene polymers and copolymers used as electrical insulation increases the resistance to failure by the mechanism called "treeing." "Calidria" has proved superior to all other dielectric minerals tested for this application and is probably at least as good as more commonly used organic liquids.

Project Report No. 5594, July 28, 1977.

Attach at least one working example & add'l information (sketches/dwgs/reports/etc) as needed to explain the invention & show its scope

NOVELTY [Mark all that are New (N) or Improved (I)]

☒ Composition ☐ Method ☐ Apparatus
☐ Article of Mfr. ☐ Use ☐ Design

SCOPE

☐ BROAD ... new or important technology or wide commercial potential
☒ AVERAGE ... sound technology; reasonable commercial potential
☐ NARROW ... covers specific UCC operation or market need

PRESENT STATUS OF PROJECT

☐ ACTIVE ... Size of continuing effort: $_____/yr.
☒ INACTIVE ... ☐ Terminated ☐ Interrupted (work to be resumed ca._____

Work (now at) (was carried to) ☒ lab. stage ☐ pilot scale ☐ production scale
☐ customer evaluation ☐ other (explain)

COMMERCIALIZATION

☒ First use or sale date (~~was~~) (will be) None planned at present

☐ Commercialization probably .. within 1 yr. ☐ 2 yrs. ☐ 5 yrs. ☐ >5 yrs. ☐
☐ " unlikely
☐ Too early to predict commercialization

PUBLICATION

☐ NONE ☐ (was) (Will be) published _____ (date), _____ (place)

☐ Decision has been made to keep information secret within UCC
☐ " " " " " distribute " to customers
☒ No decision made yet

Disclosure must await filing for protection, at least. Perhaps then we may publish to support our other voltage stabilizer formulations.

REMARKS

This technology will be very valuable and possibly used by UCC if distinctions are made between the toxicological hazards of the three varieties of asbestos because crysotile, or white, asbestos is the least hazardous. If not, there are other material suppliers who may decide to commercialize anyway.

Patent Mgr. - V. Auerbach (2)
Patent Counsel - A.J. Cozzi (2)
" " - G.R. O'Brien
Ass't Director - J.S. Nicholas
Tech. Mgr. - Oper. - R.H. Handwerk
" " - Mkt. - R.L. Boysen

Patent Mgr. - J.S. Lovell - SC
* " " - S. Sterman - TT

Other
* Director of R&D - J.E. McKeon
* Mgr. of Patents - S. Gates
Dr. D.L. Schober - BB
Dr. R.G. Shaw - NY

*Cover Sheet Only

Invention Letter Data Sheet

IL-

Title: Polyethylene Electrical Insulation Containing Calidria Asbestos

Contributors (Include FULL first, middle & last names)

1. Name: Robert Milne Eichhorn
Address: 871 Boulevard
City: Westfield County: Union State: N.J. Zip Code: 07090
Citizen of: U.S. Physicist ~~XXXXXXX XXXXXXXXXXX XXXXXXXXXXX~~

2. Name:
Address:
City: County: State: Zip Code:
Citizen of: Chemist or Engineer (check one)

3. Name:
Address:
City: County: State: Zip Code:
Citizen of: Chemist or Engineer (check one)

Date Conceived: 12/11/73 By Whom: R. Eichhorn References: 9628-122

First Reduced to Practice: 6/3/74 By Whom: R. Eichhorn References: Lab. notes W.E. Smoot

Witness(es) to Reduction to Practice [Must be someone OTHER THAN the inventor(s)]:

W.E. Smoot

Related Patent Cases:

I.L. from R.J. Turbett

Known Prior Art:

References in attached report.

rev. 8-70

Morcell Company
550 N Hobbie Avenue
Kankakee, IL 60901
815/933-5514