0182-EX-PL-1999
New Exhibit 1

File No. 2534

Law Offices
BLOOSTON, MORDKOFSKY, JACKSON & DICKENS
2120 L Street, N.W.
Washington, D.C. 20037

FAX No. (202) 828-5568

Office No. (202) 659-0830

FACSIMILE LEAD SHEET

To: Anthony Serafini

Company: Federal Communications Commission

City: DC

FAX: 418-1918

From: Hal Mordkofsky

Operator:

Date: December 7, 1999 ← Originally sent **Time:** 5:10 PM EST

Number of Pages (including lead sheet): 7

Description of Material Being Sent: Copy of filing

Note to Recipient: Tony: This is a copy of the filing today in connection with the application of Bobier Electronics, Inc., changing the applicant to Joseph A. Bobier, withdrawing the original Exhibit 1 and request for confidentiality and substituting a new Exhibit 1. Thanks for your help and please call me if you have any questions.

Hal

IF COPIES ARE NOT LEGIBLE OR IF NOT ALL PAGES WERE RECEIVED, PLEASE CONTACT THE OPERATOR AT (202) 659-0830.

LAW OFFICES
BLOOSTON, MORDKOFSKY, JACKSON & DICKENS
2120 L STREET, N.W.
WASHINGTON, D.C. 20037

(202) 659-0830
FACSIMILE: (202) 828-5568

HAROLD MORDKOFSKY
BENJAMIN H. DICKENS, JR.
JOHN A. PRENDERGAST
GERARD J. DUFFY
ANDREW BROWN
RICHARD D. RUBINO
MARY J. SISAK
D. CARY MITCHELL
MICHAEL B. ADAMS, JR.
LAURA A. OTIS
KENNETH T. SIGMAN*

ARTHUR BLOOSTON
1914 - 1999

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AFFILIATED SOUTH AMERICAN OFFICES:
ESTUDIO JAUREGUI & ASSOCIATES
BUENOS AIRES, ARGENTINA

ROBERT M. JACKSON
OF COUNSEL

PERRY W. WOOFTER
LEGISLATIVE CONSULTANT

EUGENE MALISZEWSKYJ
DIRECTOR OF ENGINEERING
PRIVATE RADIO

SEAN A. AUSTIN
DIRECTOR OF ENGINEERING
COMMERCIAL RADIO

WRITER'S DIRECT DIAL NO.
(202) 828-5520

December 7, 1999

Magalie R. Salas, Secretary
Office of the Secretary
Federal Communications Commission
Washington, DC 20554

Attention: **James Burtle, Chief**
Experimental Licensing Branch
New Technology Development Division
Office of Engineering and Technology
Mail Stop 1300E1

Re: **Bobier Electronics, Inc.**
File No. 0182

Dear Ms. Salas:

Reference is made to the pending application of Bobier Electronics, Inc. for a license in the Experimental Radio Service.

The application is amended to change the name of the applicant to Joseph A. Bobier and the mailing address to Route 2, Box 510, St. Marys, West Virginia 26170. New pages 1 and 2 of FCC Form 442, reflecting these changes, are attached hereto.

The application, as filed on June 25, 1999, included a request that Exhibit 1 thereof be accorded confidentiality and not made available for public inspection. The justification for this request was that Exhibit 1 contained Bobier's intellectual property, not yet protected by patents, that would be compromised if the exhibit were to be put in a public file.

We have since been advised by a member of your staff that the application is ripe for action and that such action would be expedited if the request for confidentiality were to be

withdrawn. Based upon our understanding that the application is capable of being granted without the detailed proprietary information presently included therein, we hereby request, on Bobier's behalf, that the original Exhibit 1 be returned to us along with the request for confidentiality without placing a copy thereof in the Commission's public files. In their place, we are submitting herewith a revised Exhibit 1 that eliminates the proprietary information.

If there are any questions concerning this filing, please communicate directly with undersigned counsel.

Very truly yours,

Harold Mordkofsky
Counsel for Bobier
Electronics, Inc.

Attachments

Approved by OMB
3060-0065
Expires 9/30/98

FEDERAL COMMUNICATIONS COMMISSION

FCC FORM 442

FOR FCC USE ONLY

APPLICATION FOR NEW OR MODIFIED RADIO STATION AUTHORIZATION UNDER PART 5 OF FCC RULES - EXPERIMENTAL RADIO SERVICE (OTHER THAN BROADCAST)

SECTION I

APPLICANT NAME (Last, first, middle initial)
Joseph A. Bobier.

MAILING ADDRESS (Line 1) (Maximum 35 characters - refer to Instruction (2) on reverse of form)
Route 2

MAILING ADDRESS (Line 2) (if required) (Maximum 35 characters)
Box 510

CITY
St. Marys

STATE OR COUNTRY (if foreign address)	ZIP CODE	CALL SIGN OR FILE NUMBER
West Virginia	26170	(NEW)

Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in FCC Fee Filing Guides. Enter in Column (B) the Fee Multiple, if applicable. Enter in Column (C) the result obtained from multiplying the value of the Fee Type Code in Column (A) by the number entered in Column (B), if any.

	(A) FEE TYPE CODE	(B) FEE MULTIPLE (if required)	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
(1)	E A E	0 0 0 1	$ 45.00	

SECTION II

To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.

	(A) FEE TYPE CODE	(B) FEE MULTIPLE (if required)	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
(2)	E A E	0 0 0 1	$ 45.00	
(3)			$	
(4)			$	
(5)			$	

ADD ALL AMOUNTS SHOWN IN COLUMN C, LINES (1) THROUGH (5), AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE.

TOTAL AMOUNT REMITTED WITH THIS APPLICATION OR FILING	FOR FCC USE ONLY
$ 90.00	

This form has been authorized for reproduction.

FEDERAL COMMUNICATIONS COMMISSION
Washington, DC 20554

APPROVED BY OMB
3060-0065
Expires 9/30/98

APPLICATION FOR NEW OR MODIFIED RADIO STATION AUTHORIZATION UNDER PART 5 OF FCC RULES - EXPERIMENTAL RADIO SERVICE (OTHER THAN BROADCAST)

1. Applicant's Name and Post Office address (Street address, city, state, and ZIP Code. See instruction No. 4)

Joseph A. Bobier.
Route 2
Box 510
St. Marys, West Virginia 26170

DO NOT WRITE IN THIS BLOCK

File No.

0182-EX-PL-1999
WB2XBC

2(a). Application for (check only one box)

☒ New station ☐ Modification of existing authorization

2(b). For Modification indicate below:

File No.: Call Sign:

3. Application for Modification: Check the box beside all particulars to be modified. Check either addition or replacement to indicate whether the change is an addition or a replacement of parameters in the current authorization.

☐ FREQUENCY - ☐ addition or ☐ replacement?

☐ EMISSION - ☐ addition or ☐ replacement?

☐ POWER - DNA ☐ addition or ☐ replacement?

☐ LOCATION - ☐ addition or ☐ replacement?

☐ OTHER PARTICULARS - addition or replacement? (Describe below or in attached EXHIBIT No. _____)

4. Particulars of Operation (see instruction below)

Frequency (state whether kHz or MHz) (A)	POWER (B)	(C)	(D)	EMISSION (E)	MODULATING SIGNAL (F)	NECESSARY BANDWIDTH (kHz) (G)
2,450 MHz and (ISM) Fixed	20 w.	31.7 kw.	PEAK	See below	See below	1,000
2.450 MHz Band (ISM) Mobile	20 w.	20 kw.	PEAK	See below	See below	1,000

(A) List each frequency or frequency band separately. (If more space is required, attach as EXHIBIT No. _____)

(B) Insert maximum R.F. output power at the transmitter terminals. Specify units.

(C) Insert maximum effective radiated power from the antenna (If pulsed emission, specify peak power). Specify units.

(D) Insert "MEAN" or "PEAK" (See definitions in Part 5).

(E) List each type of emission separately for each frequency. (See Section 2.201 of FCC Rules.)

(F) Insert as appropriate for the type of modulation:

(1) the maximum speed of keying in bauds;

(2) maximum audio modulating frequency;

(3) frequency deviation of carrier;

(4) pulse duration and repetition rate.

For complex emissions, describe in detail in the space provided below.

(G) Describe how the necessary bandwidth was determined in space provided below.

Transmitter Specifications The Breezecom radios utililize GFSK as the modulating means and spread spectrum fre...

Exhibit 1

PUBLIC INTEREST CONVENIENCE AND NECESSITY

Applicant requests a two-year Experimental Radio Service license to conduct experimentation looking toward developing new radio techniques for distributing Instructional Television Fixed Service (ITFS) and Multichannel Multipoint Distribution Service (MMDS) signals over a large area without encountering problems of signal degradation resulting from terrestrial interference and physical obstructions, including foliage.

The obstructions of current systems:

Line-of-sight transmissions in the 2 GHz band are adversely affected by foliage and other physical obstructions. Foliage obstructs terrestrial signals in extreme measure because the bipolar nature of water in the leaves absorb large amounts of RF energy.

Obstructions create costs:

These obstructions necessitate supplemental transmitters to work around the physical obstructions in order to assure reliable communications. The associated higher costs hinder the creation of new and innovative public access systems to the Internet and other related services. When these additional costs are encountered, they must be passed on to the public in the form of higher user fees.

Possible solution:

If reliable communications could be achieved without the higher costs of supplemental transmitters, i.e., if foliage and other physical obstructions were no longer a limiting factor, buildout costs would diminish and lower cost public access would become a reality.

Applicant's proposal:

Applicant proposes to conduct experiments with a potential ITFS or MMDS facility in which signals would be transmitted in other than conventional means. If these experiments are successful, applicant believes that the current limitations on signal propagation would be substantially overcome.

* * *

The proposed experimentation will determine the feasibility of applicant's theoretical solution. Accordingly, in view of the resulting benefits if this project proves to be feasible and cost effective, it is submitted that grant of this application is in the public interest.