

APPLICANT

DAVID J LEE, CLOVERVILLE, SC; THOMAS H SAVCHICK, NOBLESVILLE, TN.

CONTINUING DATA***

VERIFIED

none AL

FOREIGN/PCT APPLICATIONS***

VERIFIED

none AL

FOREIGN FILING LICENSE GRANTED 02/11/97

Foreign priority claimed 35 USC 119 conditions met	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes	AS FILED	STATE OR COUNTRY	SHEETS DRWGS.	TOTAL CLAIMS	INDEP. CLAIMS	FILING FEE RECEIVED	ATTORNEY'S DOCKET NO.
Verified and Acknowledged	Examiner's Initials <u>AL</u>		→	IN	3	11	1	\$770.00	H-195076

ADDRESS
 DELCO ELECTRONICS CORPORATION
 ERC BUILDING M S D 32
 PO BOX 9005
 KOKOMO IN 46904

TITLE
METHOD OF IMPROVING ZONE OF COVERAGE RESPONSE OF AUTOMOTIVE RADAR

U.S. DEPT. OF COMM./PAT. & TM—PTO-436L (Rev.1)

PARTS OF APPLICATION FILED SEPARATELY		Applications Examiner <i>adh</i>	
NOTICE OF ALLOWANCE MAILED <i>7-22-97</i>	Assistant Examiner <i>ANTH LA</i>	CLAIMS ALLOWED Total Claims: <i>12</i> Print Claim: <i>1</i>	
ISSUE FEE Amount Due: <i>1290.00</i> Date Paid: <i>9/22/97</i>	Primary Examiner <i>JEFFERY HORSAD</i> SUPERVISORY PATENT EXAMINER GROUP 2600	DRAWING Sheets Drwg.: <i>3</i> Figs. Drwg.: <i>10</i> Print Fig.: <i>5</i>	
Label Area	PREPARED FOR ISSUE	ISSUE BATCH NUMBER <i>P50</i>	
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Form PTO-436A (Rev. 8/92)

ISSUE FEE IN FILE

APPLICANT

MICHAEL J SHORKEYON, NOBLESVILLE, IN; DAVID J J LEE, CLOVERVILLE, SC;
THOMAS H SAVCHICKK, NOBLESVILLE, IN.

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This is to certify that annexed hereto is a true copy from the records of the United States Patent and Trademark Office of the application which is identified above.

By authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS

Date

Certifying Officer

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

310 YC 04-0549 12/30/96 08762090

31011 101 770.00CH H-195076

PTO-1556
(5/87)

Sir:

Enclosed for filing are the following patent application papers:

Docket No.: H-195076
Inventors: Mark Ford Henderson
Michael John Shorkey
David James Lee
Thomas Hays Savchick

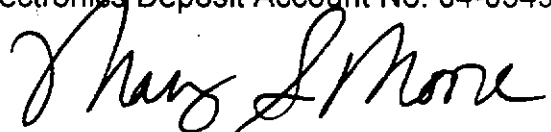
Title: METHOD OF IMPORVING ZONE OF COVERAGE
RESPONSE OF AUTOMOTIVE RADAR

Filing Fee Formula

Basic Fee.....	\$ 770.00
Additional Fees:	
Number of independent claims in excess of 3, times \$80.00.....	\$ 0.00
Number of claims in excess of 20, times \$22.00.....	\$ 0.00
Multiple dependent claim, add \$260.00.....	\$ 0.00
Total Filing Fee.....	\$ 770.00

The patent specification h-195076 entitled METHOD OF IMPROVING ZONE OF COVERAGE RESPONSE OF AUTOMOTIVE RADAR and filed in the Patent and Trademark Office herewith is the patent specification for which the inventor(s) executed the Declaration enclosed herewith.

Please charge the \$770.00 filing fee to Delco Electronics Deposit Account No. 04-0549.



MARY S. MOORE
Reg. No. 37,245
317/451-34867

This invention relates to the control of side
detection automotive radar systems and particularly to a
10 method of controlling an alarm or alert indicator to
enhance the perceived coverage of a blind spot.

Background of the Invention

Vehicle mounted near object detection systems
15 utilize various means for detecting and identifying
targets of interest in their vicinity. The target
information is useful in collision warning systems
wherein the system notifies the vehicle operator that an
object is positioned to present collision potential.
20 While many forms of near object detection systems
presently exist, generally those utilizing radar
transceivers and related signal processing techniques do
the best job of reliably detecting targets within range
over variations in environment.

25 Such near object detection systems use radar,
preferably microwave radar, to "illuminate" a target of
interest by transmitting energy with certain signatory
characteristics and then monitoring for similar return
signals reflected from an object. Microwave
30 transmissions with approved power levels and spectra
generally experience lower overall attenuation with
weather and are less susceptible to "scattering" effects
than are other transmission media utilized by systems of
this type. Properties of the reflected signal are
35 analyzed using established (proprietary) techniques to
determine relevance to the interests of the driver of a
vehicle equipped with such a system. Information derived

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