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**4. Application or patent number(s):**  This document is being filed together with a new application.  
 A. Patent Application No.(s)  
 12/092,250  
 B. Patent No.(s)  
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**5. Name and address to whom correspondence concerning document should be mailed:**  
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**6. Total number of applications and patents involved:** 1  
**7. Total fee (37 CFR 1.21(h) & 3.41)** \$40.00  
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**9. Signature:** \_\_\_\_\_ /Yingsheng Tung/ \_\_\_\_\_ May 29, 2013  
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PATENT



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(54) **MONOLITHIC LNA SUPPORT IC**

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(57) **ABSTRACT**

A low noise amplifier (LNA) comprises: a plurality of FETs (F1, F2, F3, F4) arranged to process signals received by the amplifier; a power input (10) arranged to receive electrical power to operate the LNA; and a monolithic support integrated circuit (IC). The monolithic support IC comprises: a FET control circuit (2) arranged to monitor and control the drain current of each FET; a FET selection circuit (3, 24, 22) arranged to detect the level of a DC component of a voltage signal supplied to the power input and to provide a FET selection signal to the FET control circuit (2) according to the detected DC level.

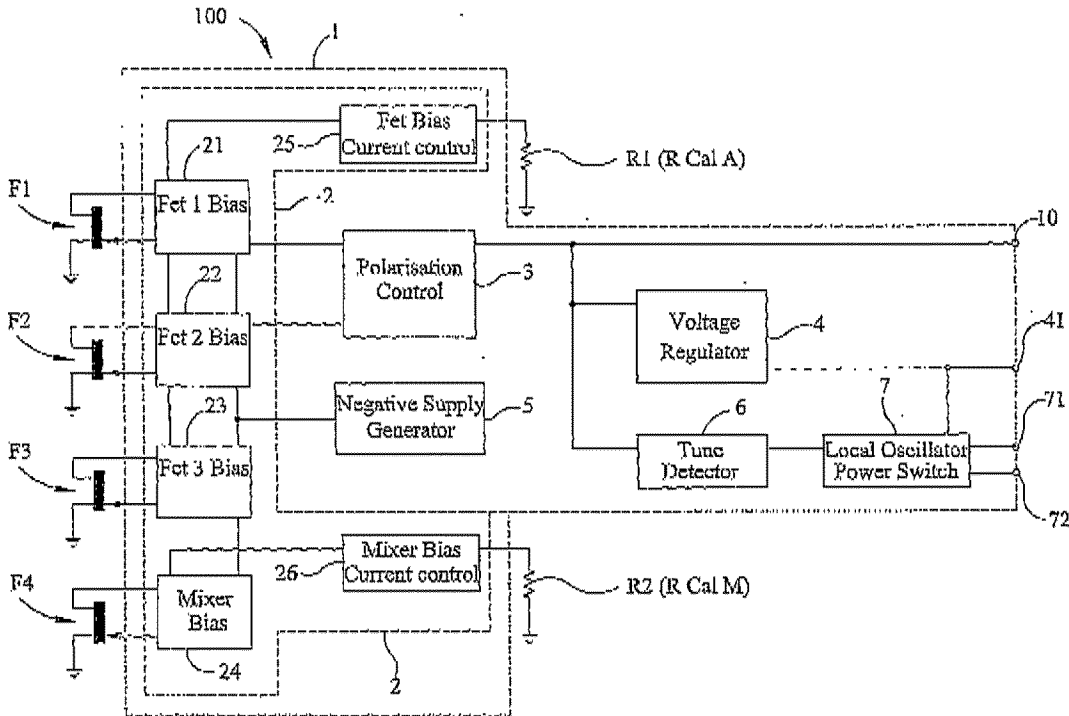
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(86) **PCI No.: PCT/GB06/04045**

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### CERTIFICATE OF MERGER

I, the undersigned, do hereby certify that

Zetex Semiconductors Plc  
of Zetex Technology Park Chadderton Oldham  
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was a corporation duly organized under the laws of England and Wales, and that  
said corporation merged with and into

Diodes Incorporated  
(surviving corporation)  
of 4949 Hedgcoxe Road  
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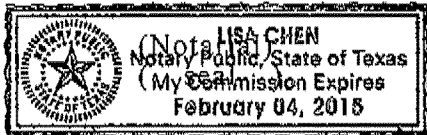
a corporation organized and existing under the laws of Delaware  
on the 9th day of June, 2008.

Executed this 4th day of October, 2012.

Diodes Incorporated  
(surviving corporation)

Representative: Richard D. White  
name: RICHARD D. WHITE  
title: CFO- DIODES INCORPORATED

Subscribed and sworn to  
before me this 4th day  
of October, 2012.



Notary Public:

[Signature]

Date my commission expires: