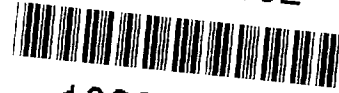


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1

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140448

Authorization to charge additional fees:

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William A. Munch
Name of Person Signing

William A. Munch
Signature

Dec 29, 2001
Date

ASSIGNMENT OF APPLICATION

Docket Number (Optional)
P04951

Whereas, I, Ravi Kumar of Bangalore, India, hereafter referred to as applicant, have invented certain new and useful improvements in CHARGE PUMP CIRCUIT FOR A HIGH SPEED PHASE LOCKED LOOP

for which an application for a United States Patent was filed on November 6, 2001, Application Number 09 / 993,283.

for which an application for a United States Patent was executed on _____, and

Whereas, National Semiconductor Corporation of Santa Clara, California 95051 herein referred to "assignee" whose post office address is 2900 Semiconductor Drive is desirous of acquiring the entire right, title and interest in the same;

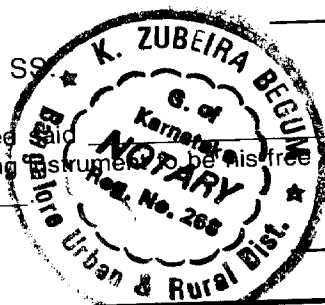
Now, therefore, in consideration of the sum of two dollars (\$ 2.00), the receipt whereof is acknowledged, and other good and valuable consideration, I, the applicant, by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this Sixth day of November, 2001, at Bangalore, India

(Signature)
Ravi Kumar

ATTESTED

State of _____
County of _____
Before me personally appeared _____
and acknowledged the foregoing instrument to be his free act and deed this _____
day of November, 2001.



TRUE COPY

K. ZUBEIRA BEGUM
B. A. B. A.
ADVOCATE & NOTARY
94/2, 5th Road
Bendidurga Road Extn.
(Notary Public)

Seal

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ASSIGNMENT OF APPLICATION

Docket Number (Optional)
P04951

Whereas, I, Chandra P. Tiwari of Bangalore, India, hereafter referred to as applicant, have invented certain new and useful improvements in _____

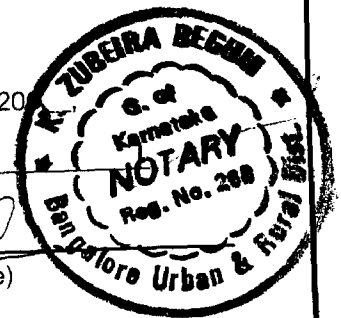
for which an application for a United States Patent was filed on November 6, 2001,
Application Number 09 / 993,283

for which an application for a United States Patent was executed on _____, and

Whereas, National Semiconductor Corporation of Santa Clara, California 95051 herein referred to "assignee" whose post office address is _____ 2900 Semiconductor Drive is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of two dollars (\$ 2.00), the receipt whereof is acknowledged, and other good and valuable consideration, I, the applicant, by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this Sixth day of November, 2001
at Bangalore India
Chandra P. Tiwari
(Signature)



State of Karnataka SS:
County of India
Before me personally appeared said Chandra P. Tiwari
and acknowledged the foregoing instrument to be his free act and deed this 06
day of Nov, 2001.

K. ZUBEIRA BEGUM
B. A. B. I.
(Notary Public)

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