



PATENT TERM CALCULATOR

If this estimate is for either a **reexamination** or a **reissue** you must use the **original patent's** information.

NOTE: If you wish to save this file for future reference, please retype the date in this calculated field.

Today's date is:

MM DD YYYY
4 30 2018

For what type of patent are you calculating a term?

utility

(NOTE: if a **reexamination** or **reissue**, base calculations on the **original patent's** information)

What is the filing date of the patent (U.S. or 371 International Date, if applicable)?

MM DD YYYY
12 22 1994

Domestic Benefit

Does the patent claim any domestic benefit?

Yes No

If the patent claims any domestic benefit, what is the Earliest Effective Filing Date?

MM DD YYYY

Domestic Benefit = Continuation, Continuation-in-Part, or Divisional

What is the grant date of the patent?

MM DD YYYY
5 20 1997

How much 156 PTE is the patent entitled to (days)? If none, enter '0'

0 days of 156 PTE

Terminal Disclaimers

Does the patent have any terminal disclaimers?

Yes No

If there are any terminal disclaimers, what is the earliest TD-based expiration date?

MM DD YYYY

Timely Payment of Maintenance Fees

NOTE: For patents that are not designs or plants, maintenance fees must be paid on time to preserve the full patent term. Maintenance fees are due three times during the life of a patent, and may be paid without surcharge 3 to 3.5 years, 7 to 7.5 years, and 11 to 11.5 years after the date of issue and cannot be paid early. Maintenance fees may also be paid with a surcharge during the "grace periods" of 3.5 to 4 years, 7.5 to 8 years, and 11.5 to 12 years after the date of issue.

The dates below reflect the latest possible payment date, including grace periods.

Your first Maintenance Fee should be paid no later than 4 years after issue:

MM DD YYYY
5 20 2001

Did you pay this fee?

yes

Your second Maintenance Fee should be paid no later than 8 years after issue:

MM DD YYYY
5 20 2005

Did you pay this fee?

yes

Your third Maintenance Fee should be paid no later than 12 years after issue:

MM DD YYYY
5 20 2009

Did you pay this fee?

yes

NOTICE: This calculator is only an educational tool. It was developed based on assumptions that may or may not apply in a particular case. It does not provide a determination of any kind by USPTO. It is not intended to, and does not, create any right or benefit, substantive or procedural, enforceable at law or in equity by a party against the United States, its departments, agencies, instrumentalities, entities, officers, employees or agents, or any other person.

MM DD YYYY

The calculated expiration date for this patent is 12 22 2014

ERROR CONTROL SUMMARY - The above calculation is based upon the following date information:

Date Filed	12/22/1994
Earliest Effective Filing Date	
Grant Date	5/20/1997
Terminally Disclaimed to	
Combined days of 35 USC 154 PTA, 35 USC 154 PTE and 35 USC 156 PTE additions.	0
Expiration due to Missed Maintenance Fee Payment	

Patent Number:	5631287
Application Number:	08/362677

Exhibit 1106

