## CSV module - improper regexp for escaping special characters

### Description

There seems to be a bug in `csv.rb` module. If you would like to use some special characters like `(({|}))` as a `quote_char` (passed as a parameter to CSV methods like `read`), the program terminates with `((CSV::MalformedCSVError: Missing or stray quote in line xxx))` error message even if the input `.csv` file is correct.

Below is the assignment of the Regexp used for escaping special symbols used in regular expressions:

```
1587: @re_chars = /#{%"[-\[\[\.{^$?*+{}()|\s\r\n\t\f\v\]]".encode(@encoding)}/
```

The issue is with the leading `(({-}))` which I find completely wrong and causes miss of all matches it was intended to. The hyphen char `"(({-}))"` has to be escaped only inside brackets `(({{{}}}))` and only if it does not immediately follow the left bracket.

The quick fix for the above issue may look like:

```
1587: @re_chars = /#{"(?<!\[)-(?=\].\]\])|\[.\.{^$?\+{}()|\s\r\n\t\f\v\]]".encode(@encoding)}/
```

I'd like to mention it would also match strings including right bracket without its left counterpart but it doesn't matter anyway. Lookbehind doesn't support quantifiers in Ruby so it would require to rewrite whole substitution code where applied.

### Associated revisions

**Revision 3fb752a9 - 03/20/2014 02:38 PM - JEG2 (James Gray)**

- `lib/csv.rb`: Fixed a broken regular expression that was causing CSV to miss escaping some special meaning characters when used in parsing.
  - Reported by David Unric
  - [ruby-core:54986][Bug #8405]

**Revision 45374 - 03/20/2014 02:38 PM - JEG2 (James Gray)**

- `lib/csv.rb`: Fixed a broken regular expression that was causing CSV to miss escaping some special meaning characters when used in parsing.
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**Revision 45374 - 03/20/2014 02:38 PM - JEG2 (James Gray)**

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Revision 5d53e5b7 - 03/30/2014 04:01 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) r45374: [Backport #8405]

* lib/csv.rb: Fixed a broken regular expression that was causing CSV to miss escaping some special meaning characters when used in parsing.
  Reported by David Unric
  [ruby-core:54986] [Bug #8405]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@45476 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45476 - 03/30/2014 04:01 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) r45374: [Backport #8405]

* lib/csv.rb: Fixed a broken regular expression that was causing CSV to miss escaping some special meaning characters when used in parsing.
  Reported by David Unric
  [ruby-core:54986] [Bug #8405]

Revision a9006d3a - 05/15/2014 03:28 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) r45374: [Backport #8405]

* lib/csv.rb: Fixed a broken regular expression that was causing CSV to miss escaping some special meaning characters when used in parsing.
  Reported by David Unric
  [ruby-core:54986] [Bug #8405]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@45956 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45956 - 05/15/2014 03:28 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) r45374: [Backport #8405]

* lib/csv.rb: Fixed a broken regular expression that was causing CSV to miss escaping some special meaning characters when used in parsing.
  Reported by David Unric
  [ruby-core:54986] [Bug #8405]
lib/csv.rb: Fixed a broken regular expression that was causing
CSV to miss escaping some special meaning characters when used
in parsing.
Reported by David Unric
[ruby-core:54986] [Bug #8405]

#5 - 03/21/2014 03:17 PM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN to 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: REQUIRED

#6 - 03/30/2014 04:01 PM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: REQUIRED to 1.9.3: REQUIRED, 2.0.0: DONE, 2.1: REQUIRED

r45374 was backported to ruby_2_0_0 at r45476.

#7 - 05/15/2014 03:29 PM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 1.9.3: REQUIRED, 2.0.0: DONE, 2.1: REQUIRED to 1.9.3: REQUIRED, 2.0.0: DONE, 2.1: DONE

r45374 was backported into ruby2_1 branch at r45956.