## References Within References (anonymous.dtx)

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Often a shorter work will be included in a larger compilation, and both need to be cited in order to facilitate access to the shorter work. A private letter may be reprinted in a volume of collected letters, for example, or a brief filed in a case may appear within the docket for a case. *Hereinafter* provides a number of ways to support this.

First, some reference parameters accept another reference nickname as input. All references accept the parameter reprinted, and some such as casedoc accept the parameter citation. More generally, the reference type citecontainer provides a comprehensive mechanism for citing a reference contained within another reference.

As an example, consider the following reference definitions:

```
\defletter{madison-letter}{
    author=James Madison,
    to=W.T. Barry,
    date=aug 4 1822,
    reprinted=madison-writings,
}
\defbook{madison-writings}{
    name=Letters and Other Writings of
        James Madison,
    year=1884,
}
```

The parameter reprinted in the letter's reference definition identifies the book in which the letter has been reprinted by its reference nickname, and the book is defined separately as a reference. This approach works perfectly well, but it can be cumbersome to define the book as its own reference with its own nickname. If the book is never used anywhere else, it might be convenient to define the book reference inside the letter reference definition.

"Anonymous references" allow for this. Instead of providing a reference name as the value to reprinted, the book can be included in the letter reference definition as follows:

```
\defletter{madison-letter}{
    author=James Madison,
    to=W.T. Barry,
    date=aug 4 1822,
    reprinted=book: {
        name=Letters and Other Writings
            of James Madison,
            year=1884,
    },
}
```

More generally, anonymous reference definitions consist of the reference type (without the \def prefix), a colon and space, and a set of parameter-value pairs in braces. Note that whitespace following the parameter-value pairs can confuse the parser, so it is best to place a comma after the closing brace as shown above.

A counter used to make unique names for anonymous references.

```
\newcount\hi@anonrefno
\make@find@in{: }
```

Used inside a reference parameter definer, determines if the given parameter value is an anonymous reference. If so, creates a new reference object, gives it a name, and runs a callback on the created name. Otherwise, the value is a reference name, so the callback is run directly on it. #1 is the reference name or an anonymous reference definition; #2 is the callback.

```
\def\hi@anonref#1#2{%
  \find@in{: }{#1}{\hi@anonref@{#2}}{#2{#1}}
}
#1 is the callback, #2 is the type, #3 the parameter definition.
\def\hi@anonref@#1#2#3{%
  \global\advance\hi@anonrefno\@ne
  \def\reserved@a{anon@cite@\the\hi@anonrefno}%
  \begingroup
  \hi@param@clear
  \chop@space@then@run{#3}{%
  \@expand{\csname def#2\endcsname}{\reserved@a}i%
  }%
  \endgroup
  \@expand{#1}\reserved@a i%
}

Defining finders that cause syntax highlighting problems.
\make@find@in{ {}%
  \make@find@end{}}%
```