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Helfand et al.

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(54) **AUTOMATIC CREATION OF CASCADING STYLE SHEETS**

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(73) Assignee: **Adobe Systems Incorporated**, San Jose, CA (US)

* cited by examiner

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 384 days.

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(21) Appl. No.: **10/930,714**

(57) **ABSTRACT**

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A system and method are described for automatically generating style sheet formatting for stylistic edits to a Web page in a Web development environment. The Web development environment detects the user's selection of particular content of the Web page and captures any stylistic changes that the user makes to the content. Using the stylistic changes, the Web development environment searches a style data structure to determine whether any style rules already exist that correspond to the user's stylistic changes. If the Web development environment does not find a pre-existing style rule, it automatically generates one or more style rules for the stylistic edits and associates those rules with the selected content. If a pre-existing style rule exists within the style data structure, the Web development environment assigns the pre-existing style rule to the selected content.

(51) **Int. Cl.**
G06F 17/30 (2006.01)
G06F 3/00 (2006.01)

(52) **U.S. Cl.** **715/234**; 715/235; 715/236; 715/243; 715/249

(58) **Field of Classification Search** 715/517, 715/513, 522, 51, 510, 234, 235, 236, 243, 715/249; 707/1

See application file for complete search history.

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18 Claims, 25 Drawing Sheets

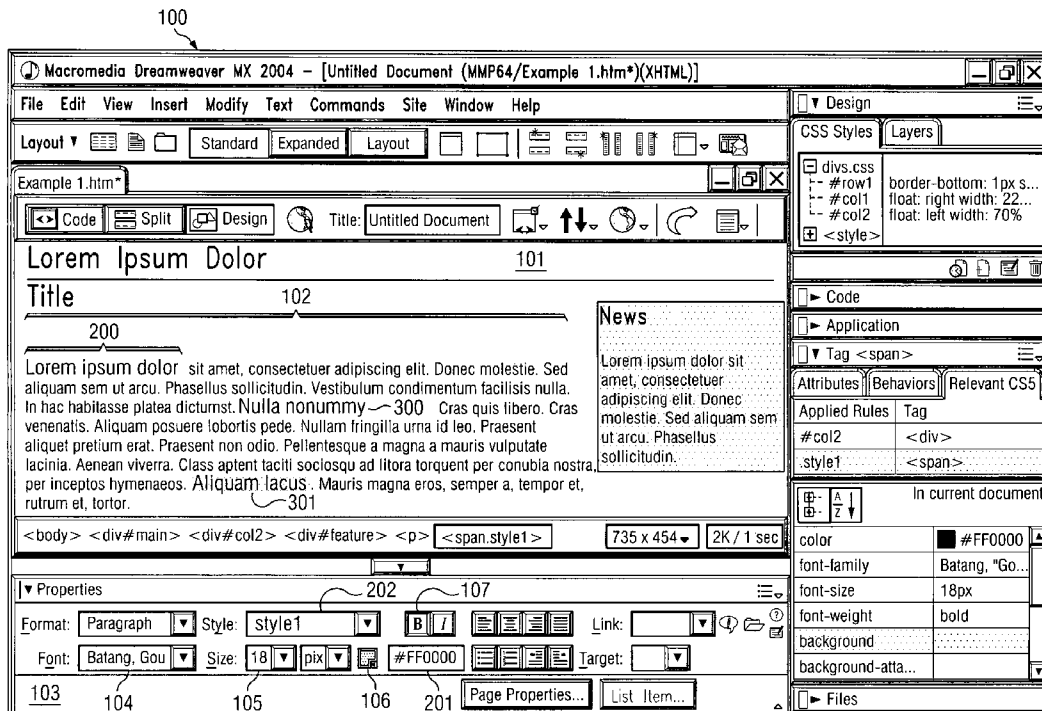


FIG. 1

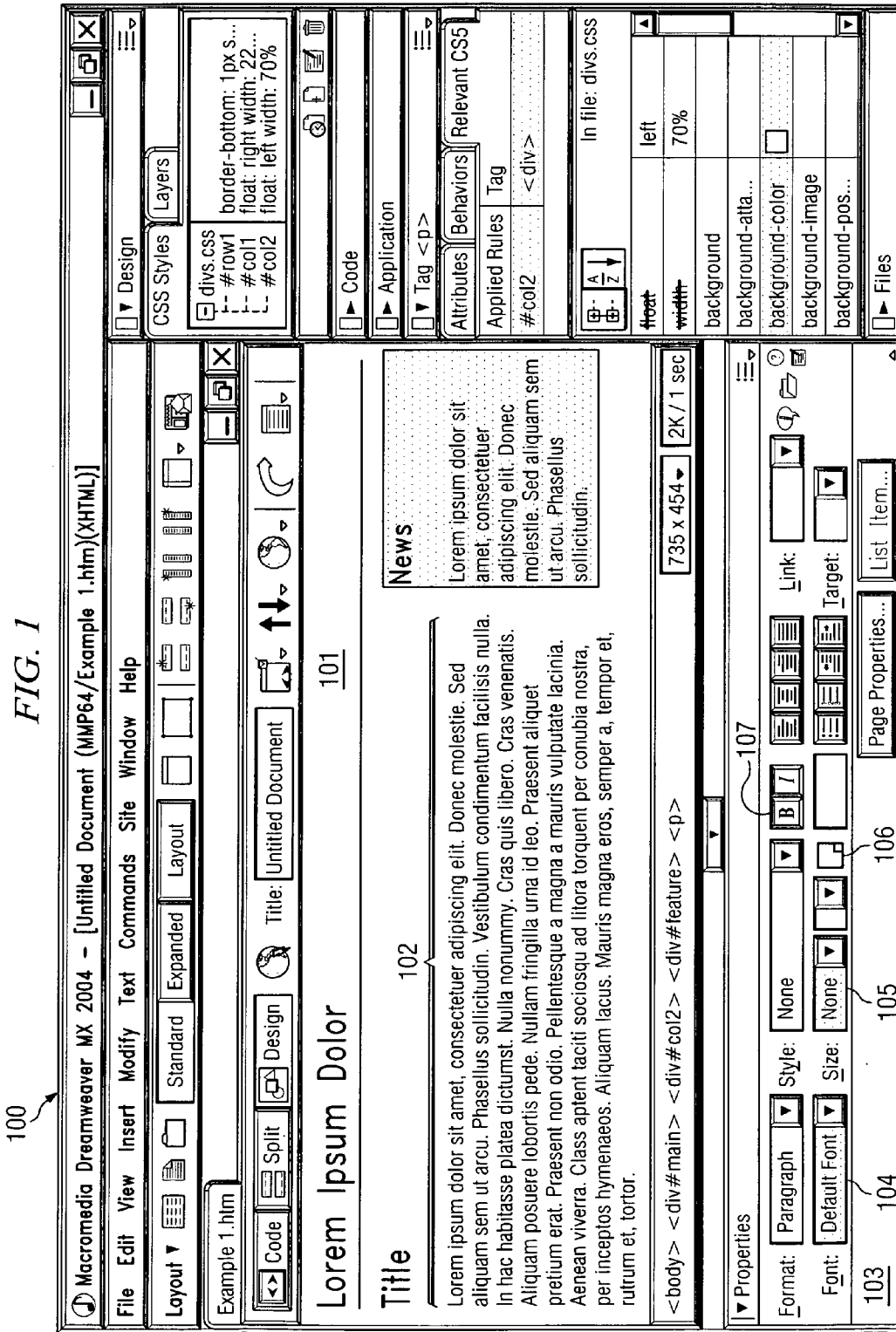


FIG. 2A

100

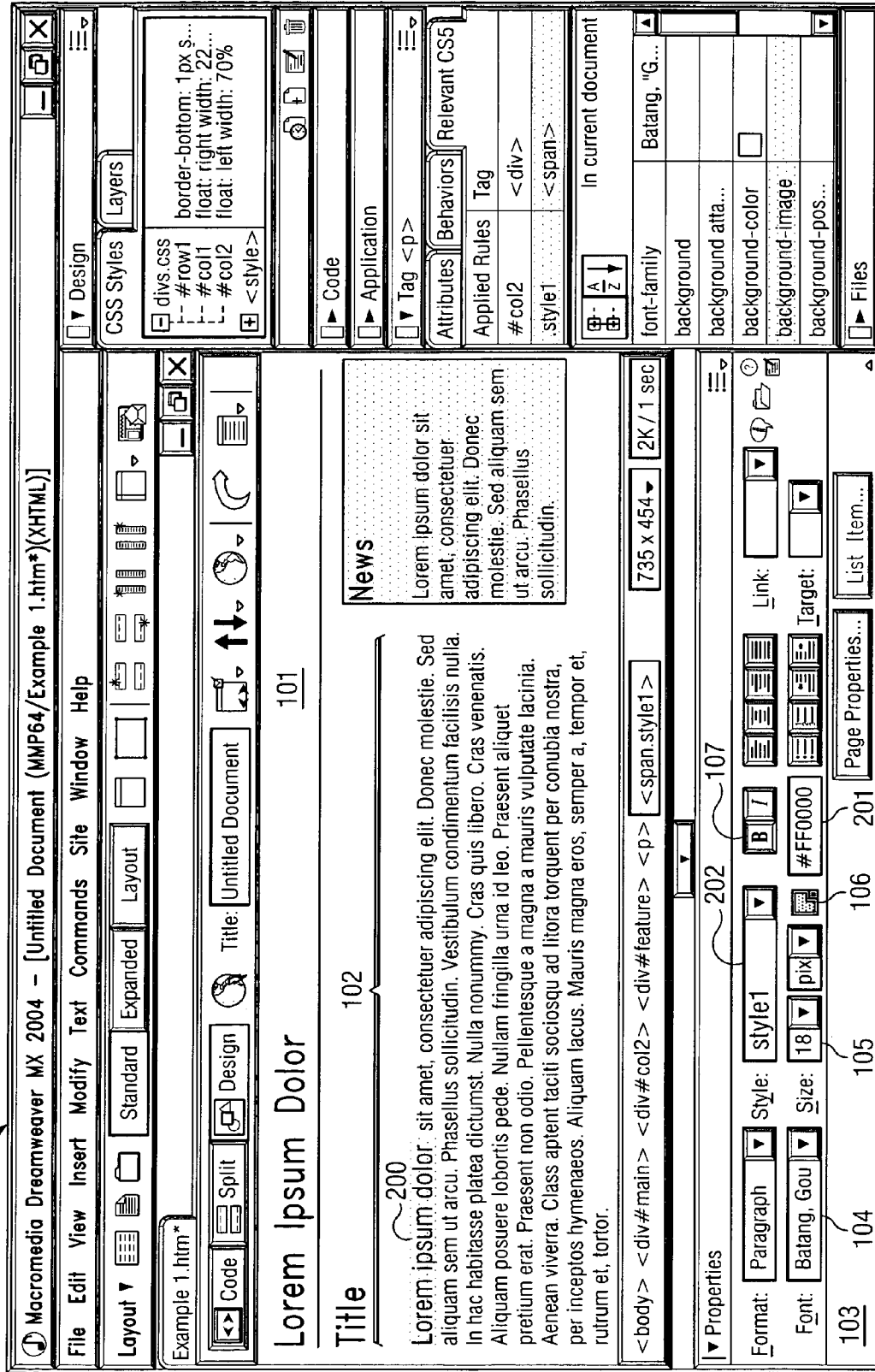


FIG. 2B-1

21

```

<?xml version="1.0" encoding="iso-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Untitled Document</title>
<link rel="stylesheet" href="file:///C:/Program%20Files/Macromedia/Dreamweaver%20MX%202004/Samples/GettingStarted/1-Design/Assets/CSS/divs.css" type="text/css" />
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
</head>
<body>
<div id="row1">
  <h1>Lorem Ipsum Dolor </h1 >
</div>
<div id="main">
  <div id="col2">
    <div id="feature">
      <h1>Title </h1 >
      <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec molestie.
      Sed aliquam sem ut arcu. Phasellus sollicitudin. Vestibulum condimentum
      108 facilisis nulla. In hac habitasse platea dictumst. Nulla nonummy. Cras
      quis libero. Cras venenatis. Aliquam posuere lobortis pede. Nullam fringilla
      urna id leo. Praesent aliquet pretium erat. Praesent non odio. Pellentesque
      a magna a mauris vulputate lacinia. Aenean viverra. Class aptent taciti
      sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos.
      Aliquam lacus. Mauris magna eros, semper a, tempor et, rutrum et, tortor. </p>
    </div>
  </div>
  <div id="col1">
    <h2>News </h2 >
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec molestie.
    Sed aliquam sem ut arcu. Phasellus sollicitudin. </p>
  </div>
</div>
</body>
</html>

```

102

108

23 STYLE GENERATOR

A

TO FIG. 2B-2

FIG. 2B-2

A FROM FIG. 2B-1

22

```

<?xml version="1.0" encoding="iso-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title>Untitled Document</title>
<link rel="stylesheet" href="file:///C:/Program%20Files/Macromedia/Dreamweaver%20MX%202004/Samples/GettingStarted/1-Design/Assets/CSS/divs.css" type="text/css" />
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<style type="text/css">
<!--
.style1 {
font-family: Batang, "Goudy01St BT", Haettenschweiler;
font-size: 18px;
font-weight: bold;
color: #FF0000;
}
-->
</style>
</head>
<body>
<div id="row1">
<h1>Lorem Ipsum Dolor </h1>
</div>
<div id="main">
<div id="col2">
<div id="feature">
<h1>Title</h1>
108 <p><span class="style1">Lorem ipsum dolor</span> sit amet, consectetur
adipiscing elit. Donec molestie.
Sed aliquam sem ut arcu. Phasellus sollicitudin. Vestibulum condimentum
facilisis nulla. In hac habitasse platea dictumst. Nulla nonummy. Cras
quis libero. Cras venenatis. Aliquam posuere lobortis pede. Nullam fringilla
urna id leo. Praesent aliquet pretium erat. Praesent non odio. Pellentesque
a magna a mauris vulputate lacinia. Aenean viverra. Class aptent taciti
sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos.
Aliquam lacus. Mauris magna eros, semper a, tempor et, rutrum et, tortor.</p>
</div>
</div>
<div id="col1">
<h2>News</h2>
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec molestie.
Sed aliquam sem ut arcu. Phasellus sollicitudin.</p>
</div>
</div>
</body>
</html>

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203

204 200 204

102

108

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