



# United States Patent [19] Benson

[11] **Patent Number:** 6,046,818  
[45] **Date of Patent:** \*Apr. 4, 2000

[54] **IMPOSITION IN A RASTER IMAGE PROCESSOR** 5,740,338 4/1998 Gauthier et al. .... 395/116

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[\*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

### [57] ABSTRACT

A method and apparatus for rendering one or more page description language descriptions of pages to be printed by a printing device on a sheet. The apparatus includes an assembler, an interpreter and a rendering engine. The assembler receives as an input a job ticket including layout and page identifier information. The assembler operates to generate an ordered list of objects to be printed by the printing device on the sheet. The interpreter receives the page description language input and the ordered list and generates display list objects for each object in the ordered list. The display list objects may be stored in a display list memory. The rendering engine receives the display list objects renders the objects. The rendered objects may be printed by a print engine onto the sheet.

[21] Appl. No.: **08/868,045**

[22] Filed: **Jun. 3, 1997**

[51] Int. Cl.<sup>7</sup> ..... **B41B 15/00**

[52] U.S. Cl. .... **358/1.18; 358/1.18; 358/1.15; 358/1.1; 358/1.9**

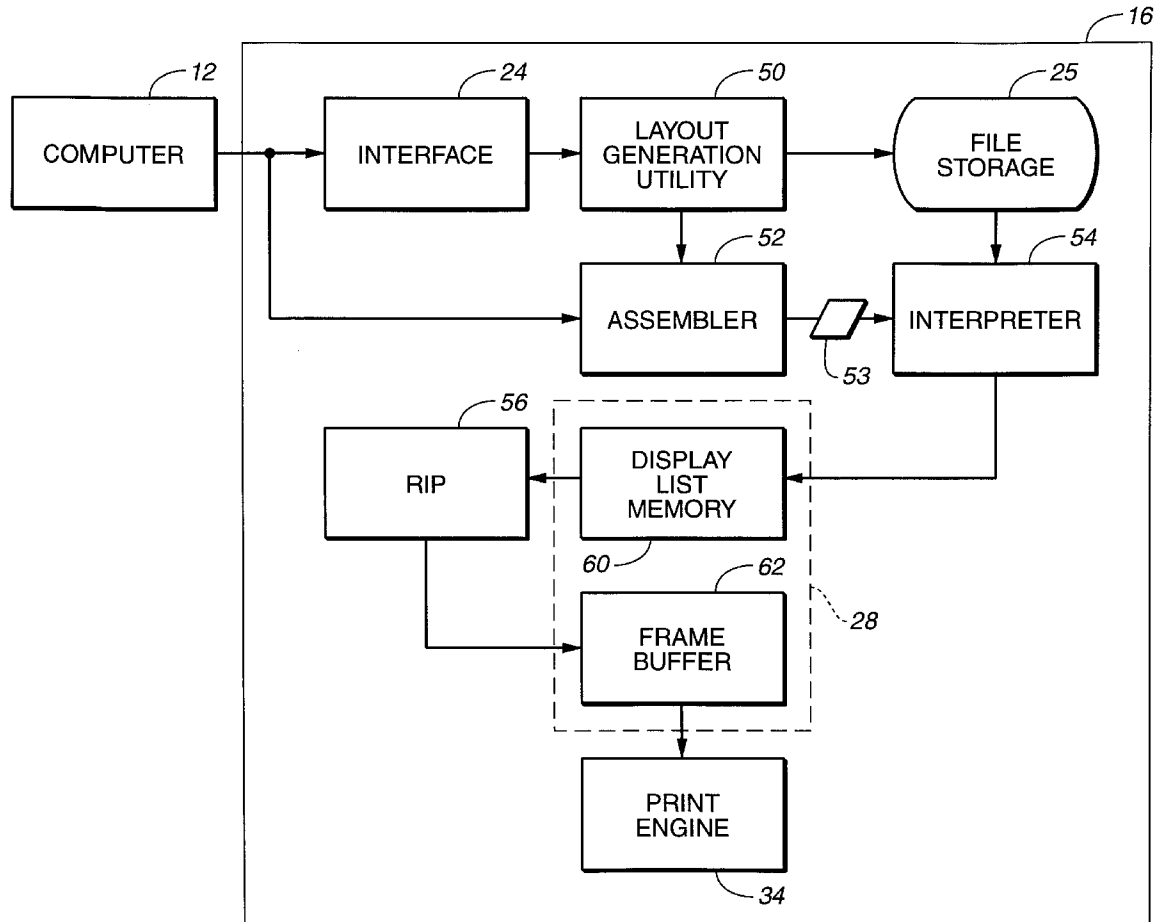
[58] **Field of Search** ..... 395/116, 114, 395/101, 117, 109, 111, 115; 101/136

### [56] References Cited

#### U.S. PATENT DOCUMENTS

5,163,368 11/1992 Penasavecchia et al. .... 101/136

**35 Claims, 8 Drawing Sheets**



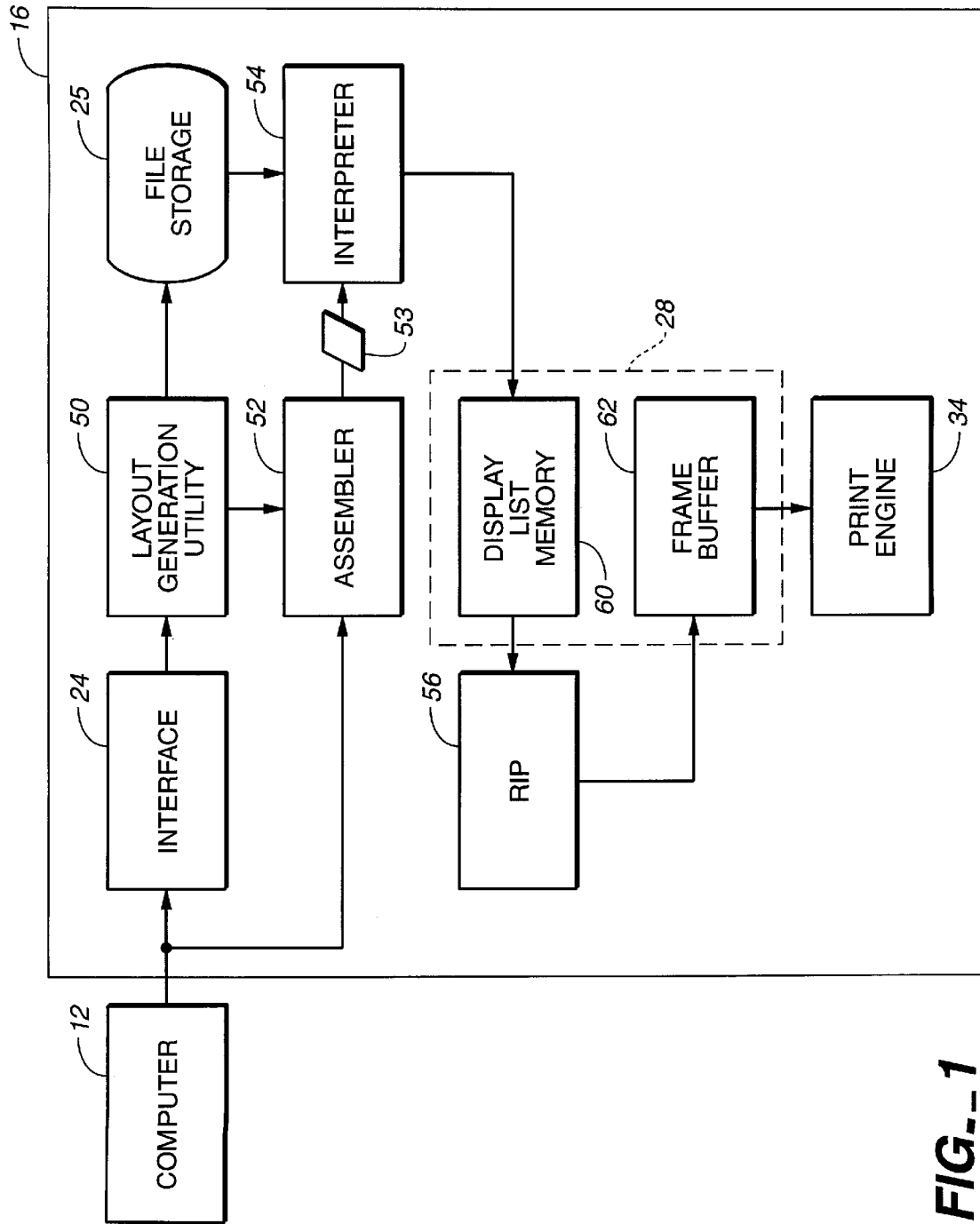
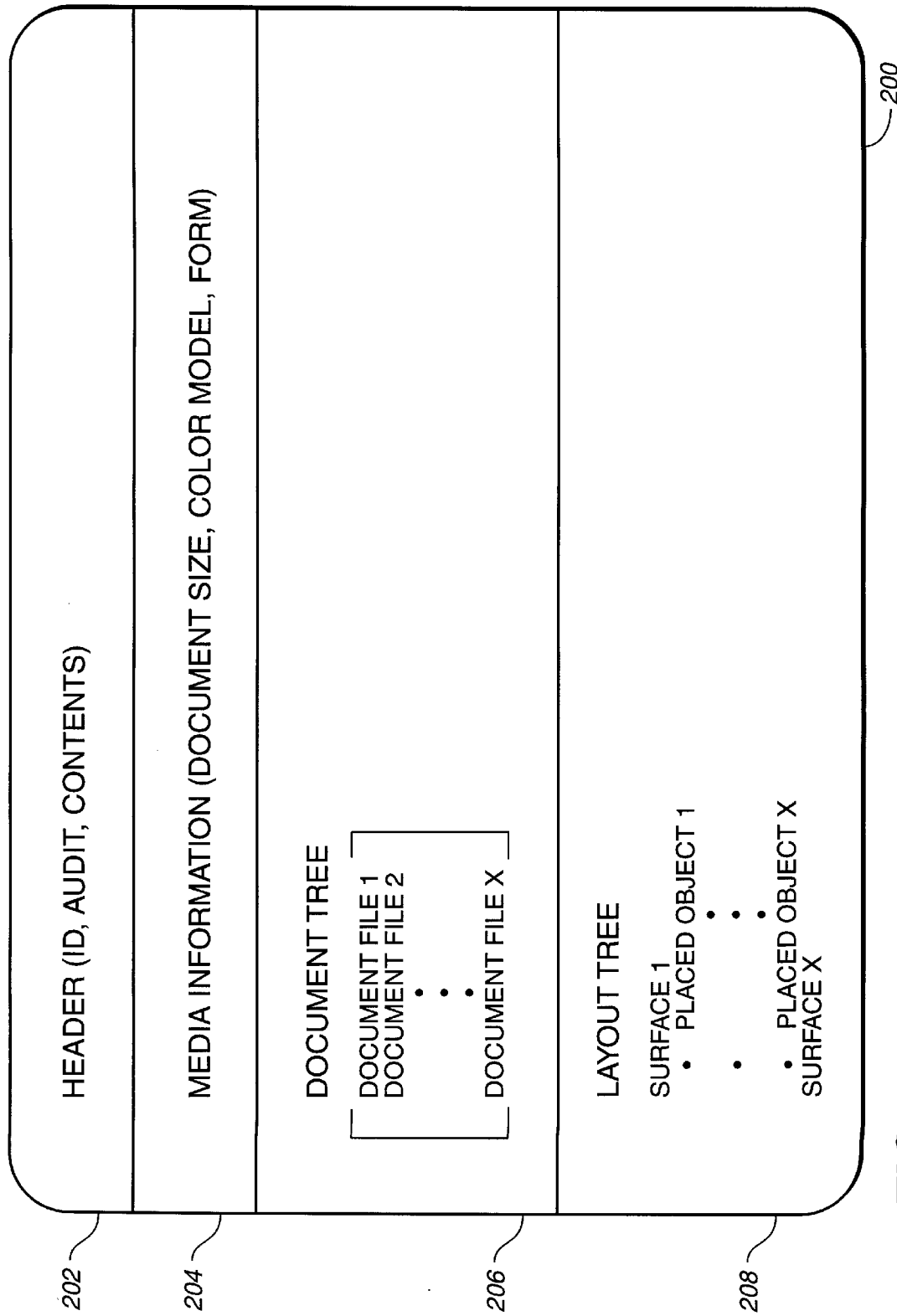


FIG. 1



**FIG. 2**

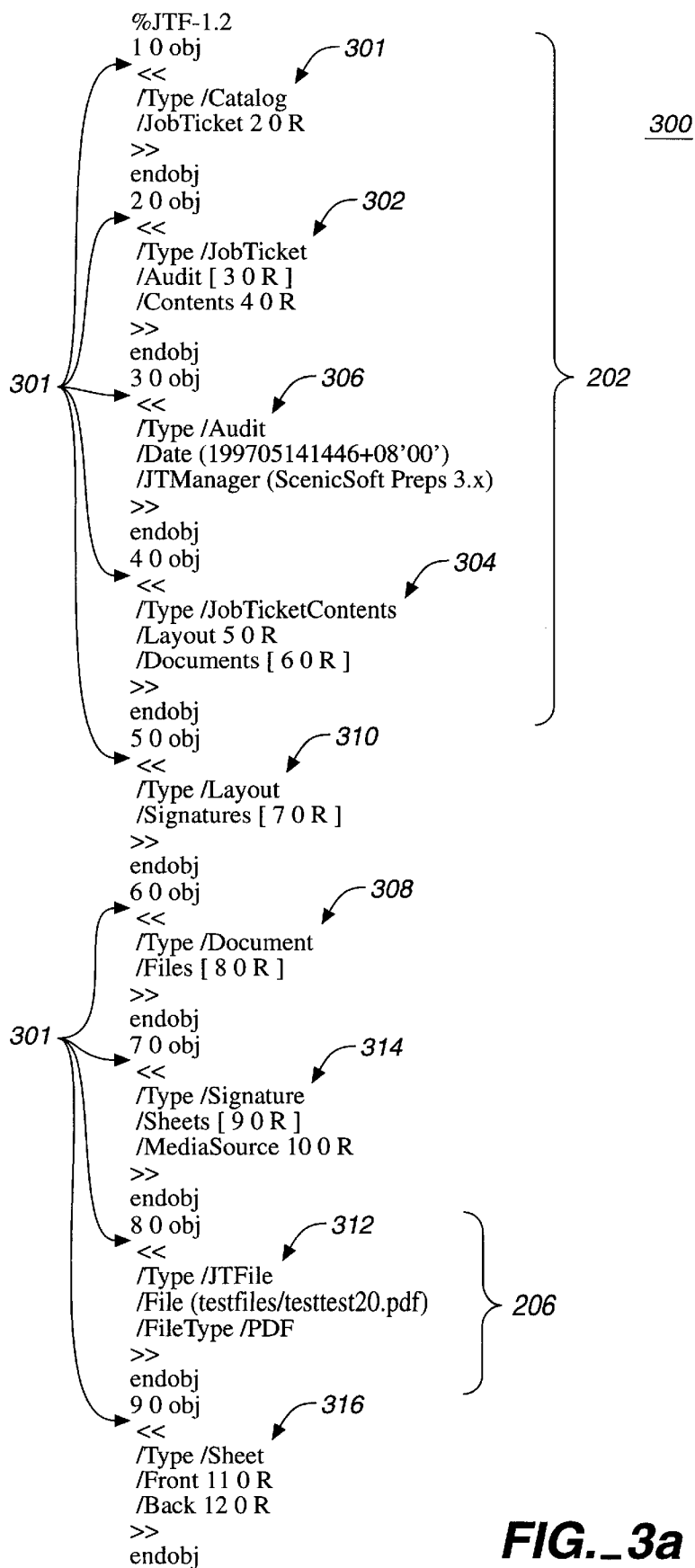


FIG.\_3a

```

10 0 obj
  <<
    /Type /MediaSource ← 318
    /Media 13 0 R
  >>
endobj
11 0 obj
  <<
    /Type /Surface ← 322
    /PlacedObjects [ 14 0 R 15 0 R 16 0 R 17 0 R 18 0 R 19 0 R 20 0 R 21 0 R ] ← 326
  >>
endobj
12 0 obj
  <<
    /Type /Surface ← 324
    /PlacedObjects [ 22 0 R 23 0 R 24 0 R 25 0 R 26 0 R 27 0 R 28 0 R 29 0 R ] ← 328
  >>
endobj
13 0 obj
  <<
    /Type /Media ← 319
    /Dimensions [ 2736.000000 1800.000000 2736.000000 1800.000000 ] ← 320
  >>
endobj
14 0 obj
  <<
    /Type /PlacedObject ← 326
    /Name /Page ← 330
    /CTM [ 1.000000 0.000000 0.000000 1.000000 873.000000 405.000000 ] ← 332
    /Clipping [ -9.000000 -9.000000 198.000000 198.000000 ] ← 334
    /Ord 1
  >>
endobj
15 0 obj
  <<
    /Type /PlacedObject ← 326
    /Name /Page
    /CTM [ 0.000046 1.000000 -1.000000 0.000046 1269.000000 405.000000 ]
    /Clipping [ -9.000000 0.000000 198.000000 198.000000 ]
    /Ord 1
  >>
endobj
16 0 obj
  <<
    /Type /PlacedObject ← 326
    /Name /Page
    /CTM [ -1.000000 0.000093 -0.000093 -1.000000 1467.000000 603.000000 ]
    /Clipping [ 0.000000 0.000000 198.000000 207.000000 ]
    /Ord 1
  >>
endobj
17 0 obj
  <<
    /Type /PlacedObject ← 326
    /Name /Page
    /CTM [ -0.000139 -1.000000 1.000000 -0.000139 1467.000000 603.000000 ]
    /Clipping [ 0.000000 0.000000 207.000000 198.000000 ]
    /Ord 1
  >>
endobj

```

**FIG. 3b**

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