

[54] METHOD AND SYSTEM FOR INTERFACING WITH A COMPUTER OUTPUT DEVICE

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[52] U.S. Cl. 395/101; 395/114

[58] Field of Search 395/112, 114, 395/116, 115, 111, 101; 371/11.1

[56] References Cited

U.S. PATENT DOCUMENTS

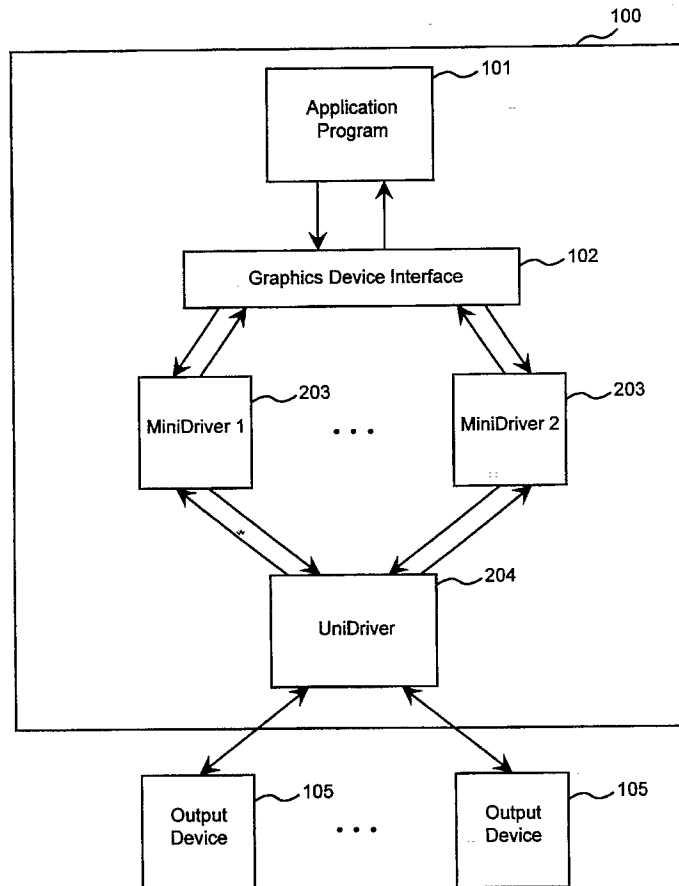
5,140,675	8/1992	Okada	395/114
5,146,547	9/1992	Beck et al.	395/116
5,165,014	11/1992	Vassar	395/112
5,228,118	7/1993	Sasaki	395/112
5,268,993	12/1993	Ikenoue et al.	395/114
5,287,434	2/1994	Bain et al.	395/101
5,293,466	3/1994	Bringmann	395/114
5,337,319	8/1994	Furukawa et al.	371/11.1
5,410,641	4/1995	Wakabayashi et al.	395/112

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[57] ABSTRACT

A computer method and system for configuring device driver is provided. In a preferred embodiment, a device driver comprises a minidriver associated with each output device and a universal driver. Each minidriver implements a plurality of minidriver functions for controlling the outputting of data to the output device by invoking functions of the universal driver. During execution of a program, the program selects an output device and invokes the minidriver functions of the minidriver associated with the selected output device. An initialization function of each minidriver invokes an initialization function of the universal driver passing an indication of and attributes of the selected output device. Other minidriver functions invoke an analogous function of the universal driver passing an indication of the selected output device. The initialization function of the universal driver processes the passed attributes and stores the indication and the processed attributes. Each analogous function accesses the stored attributes and performs the behavior of the analogous function to effect the controlling of the output device.

13 Claims, 9 Drawing Sheets



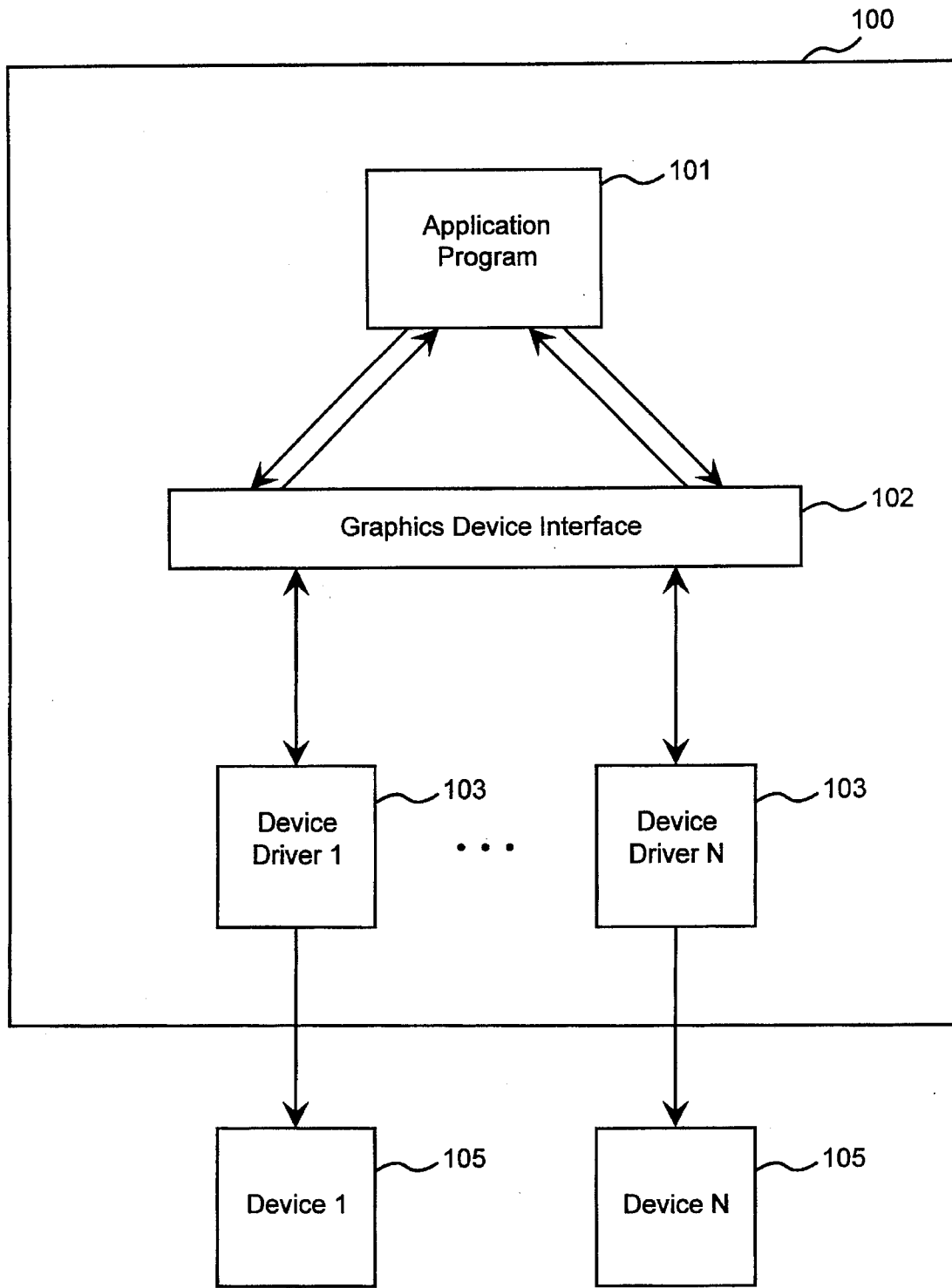


Figure 1

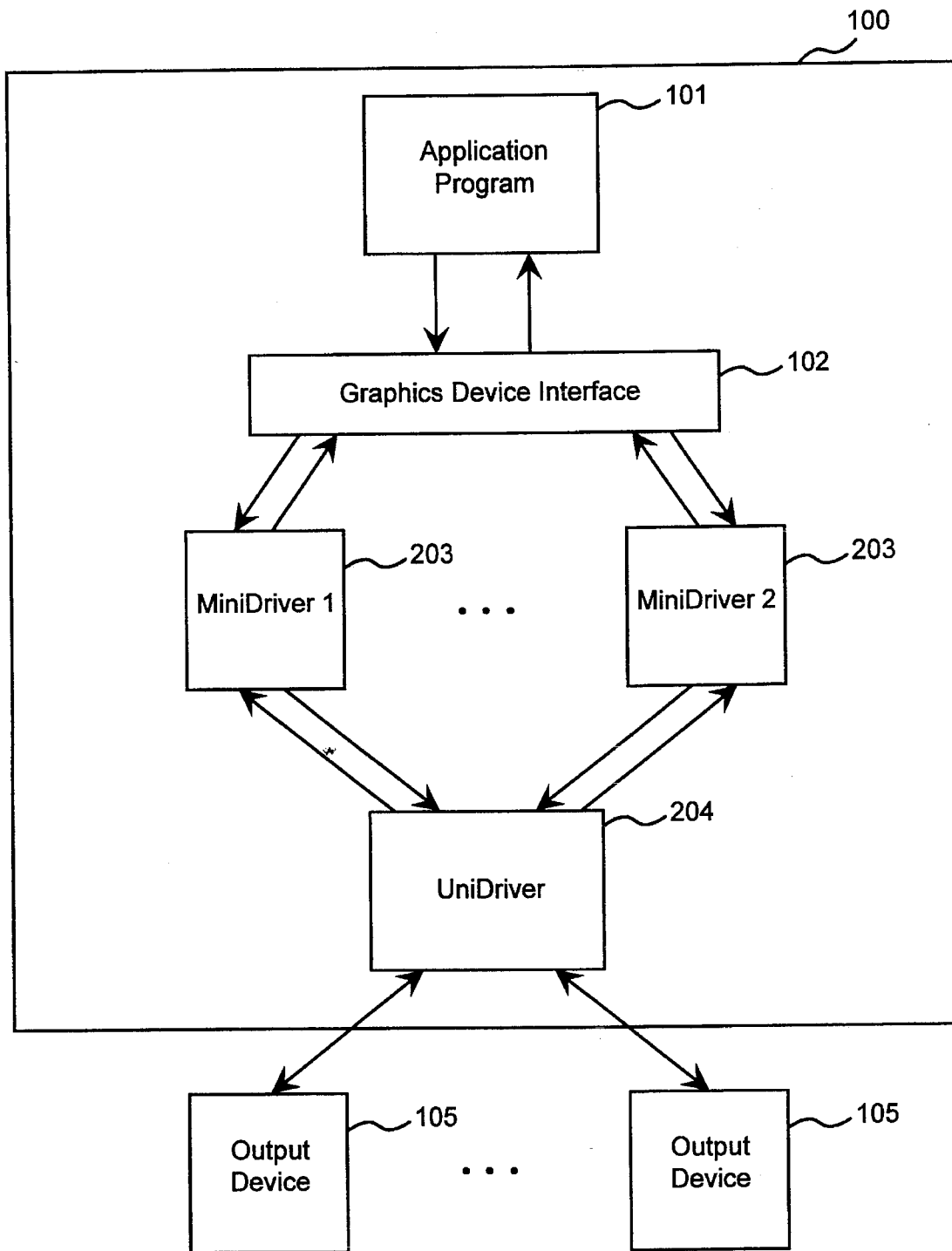


Figure 2

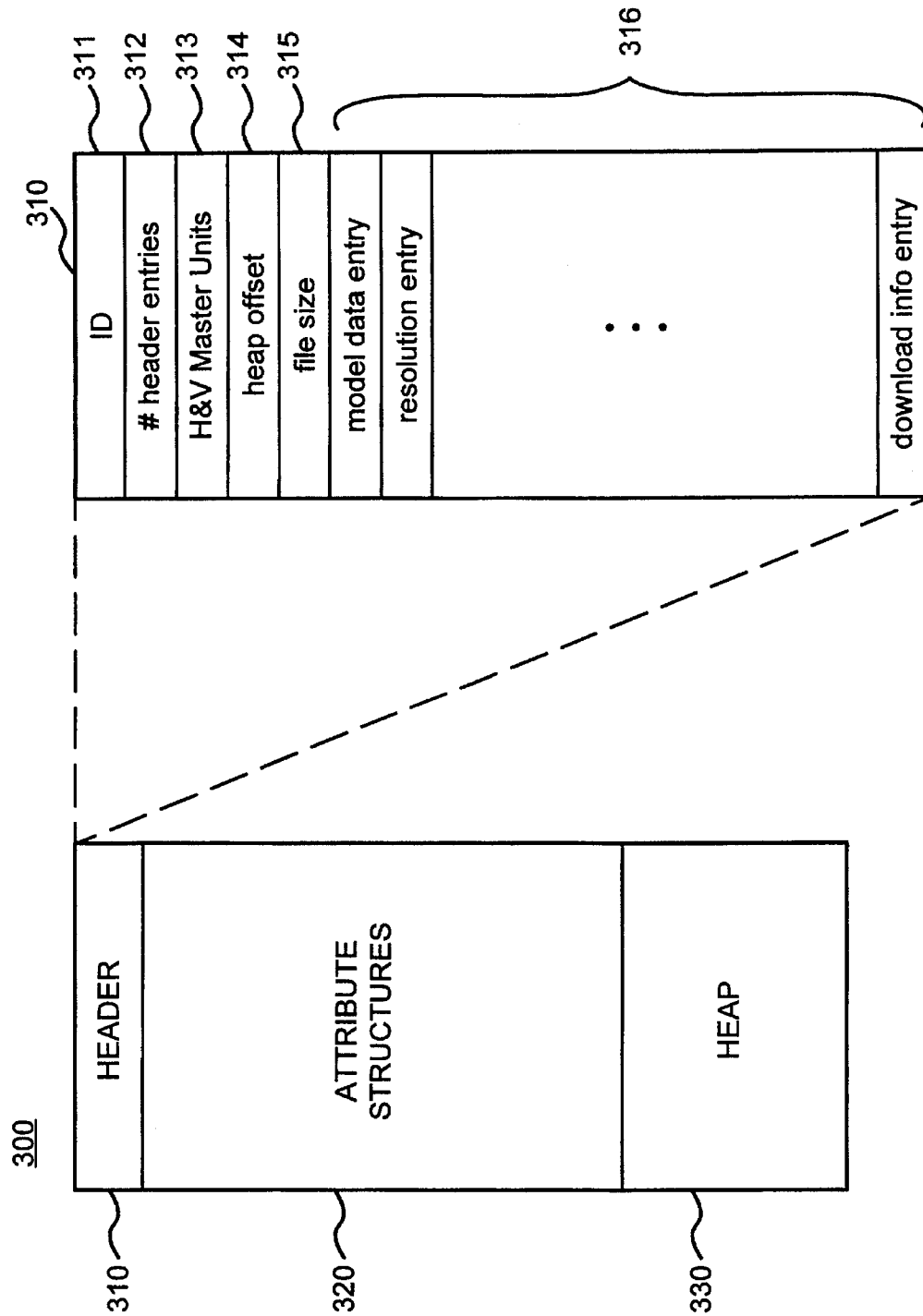


Figure 3A

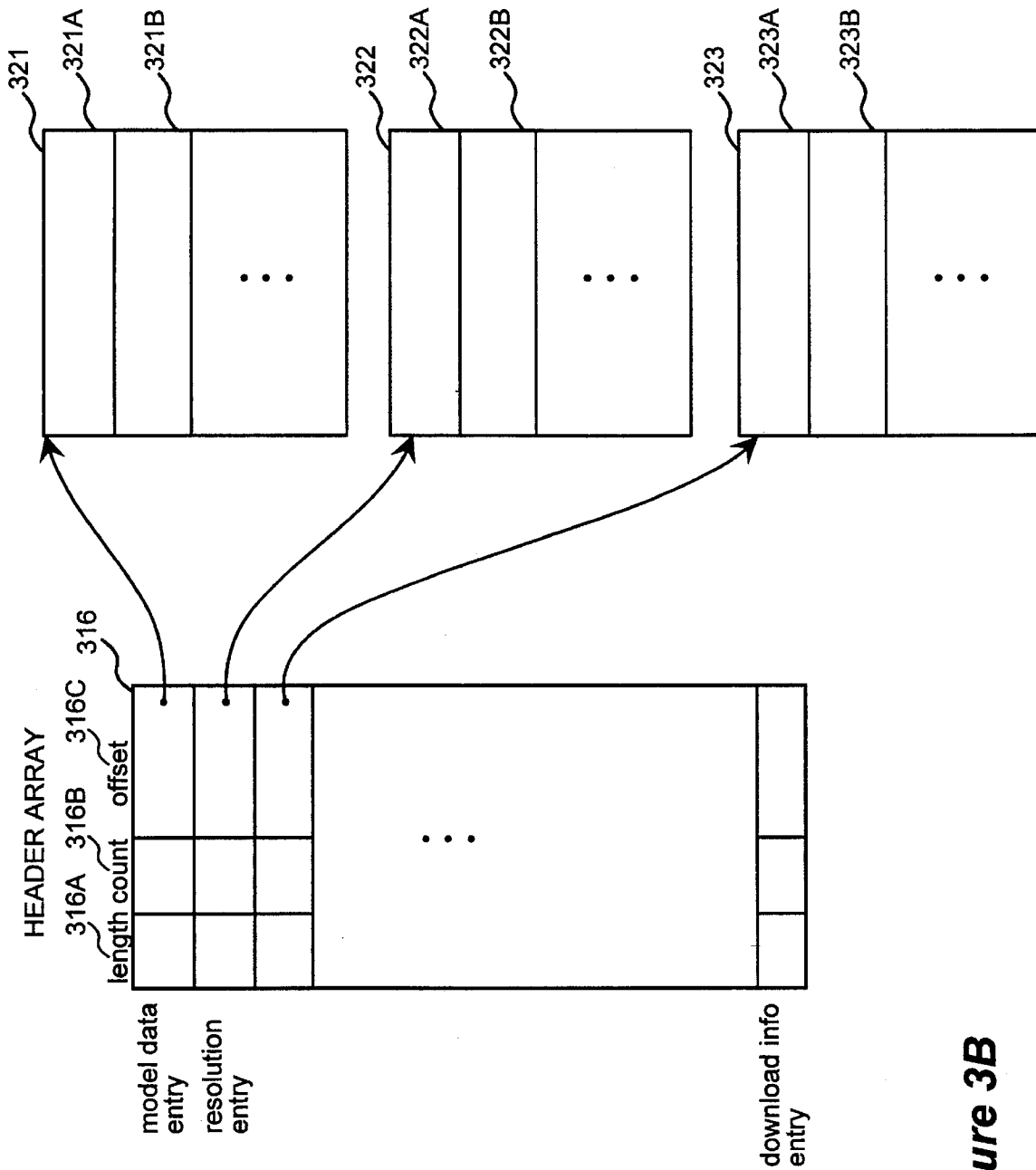


Figure 3B

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