Exhibit 1

US006629033B2

(12) **United States Patent**
Preston et al.

(10) **Patent No.:** **US 6,629,033 B2**
(45) **Date of Patent:** **Sep. 30, 2003**

(54) **OPEN COMMUNICATION SYSTEM FOR REAL-TIME MULTIPROCESSOR APPLICATIONS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/841,753**

(22) Filed: **Apr. 24, 2001**

(65) **Prior Publication Data**

US 2002/0156564 A1 Oct. 24, 2002

(51) **Int. Cl.**^{7} **G06F 7/00**
(52) **U.S. Cl.** **701/70**; 701/33; 701/36; 307/9.1
(58) **Field of Search** 701/70, 33, 36, 701/45, 41; 340/425.5; 307/9.1, 10.1, 10.2; 709/400

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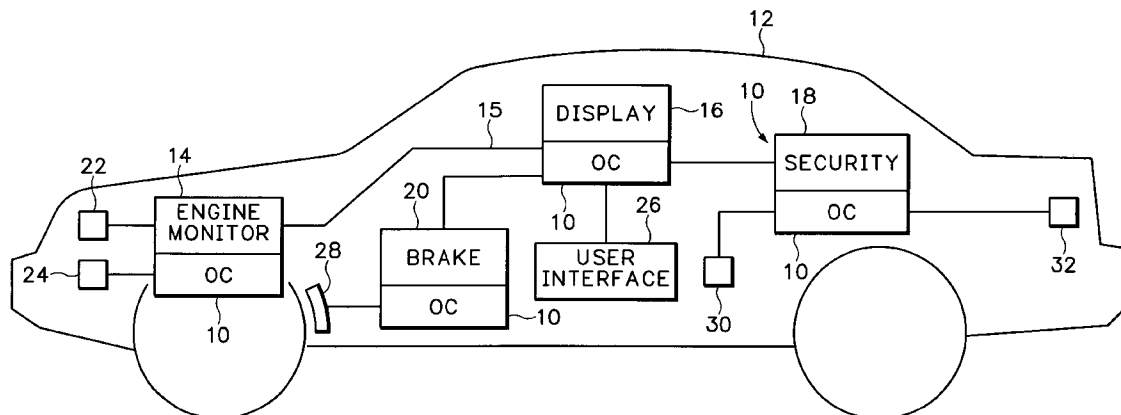
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(57) **ABSTRACT**

A communication system for a mobile vehicle, home, or office environment includes multiple processors. The multiple processors each run an Open Communication system that controls how data is transferred between processors based on data content as opposed to the links that connect the processors together. The open communication system enables data or messages to be effectively transferred and processed for real-time applications or other server based applications that may be running on the multiple processors in a secure environment regardless of processors, locations, or data links.

30 Claims, 9 Drawing Sheets

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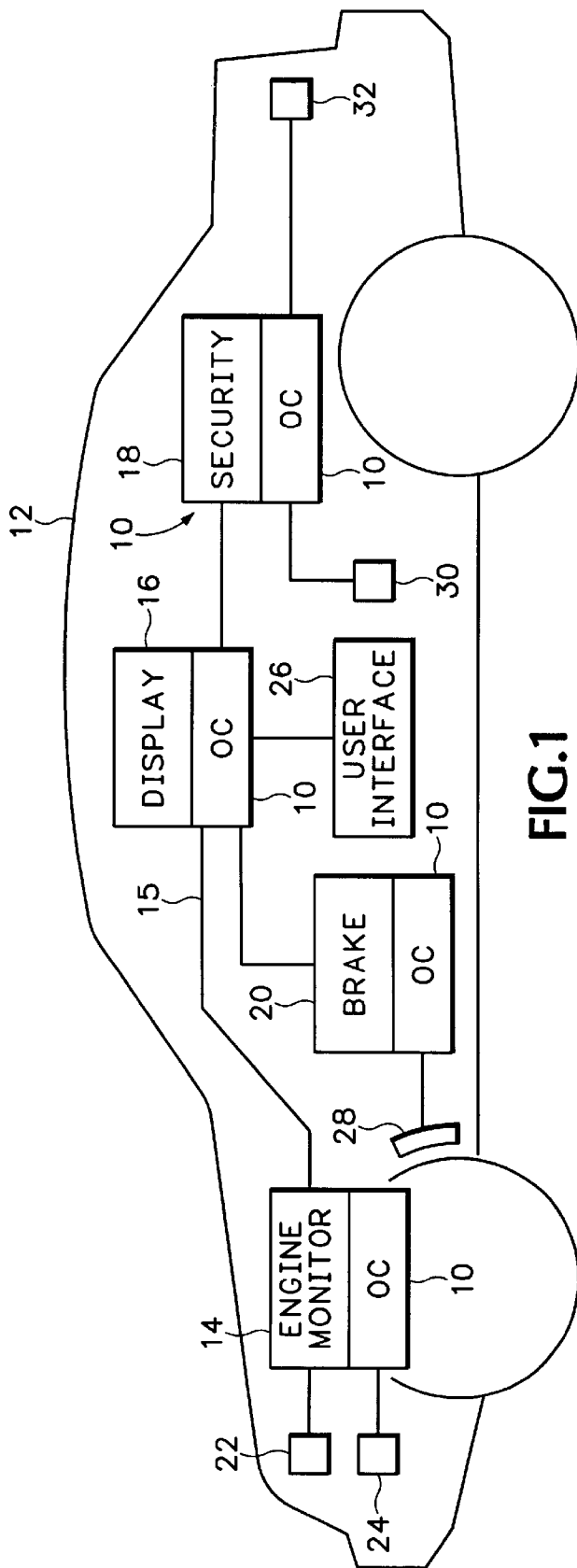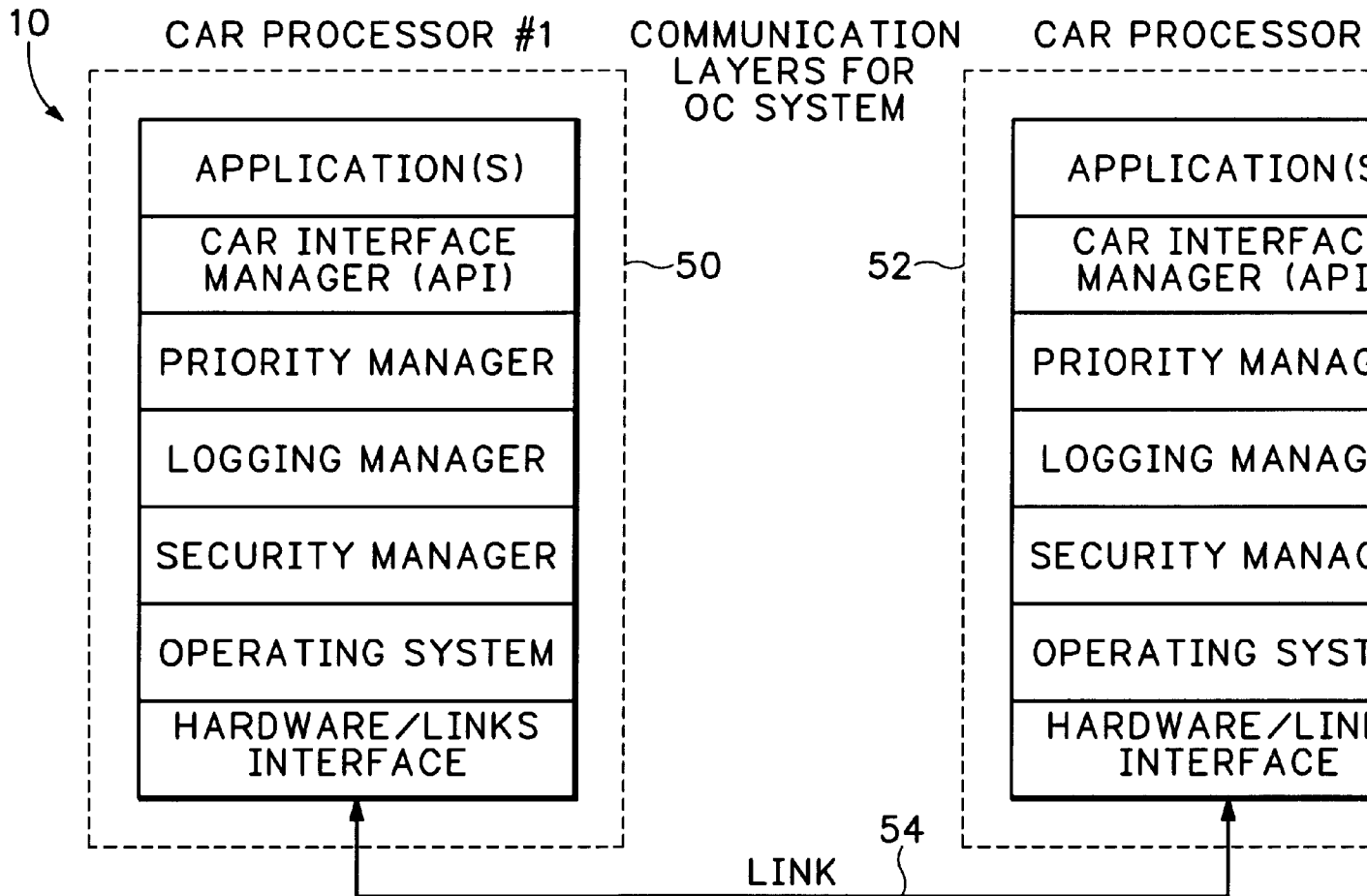
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FIG.1

10

CAR PROCESSOR #1   COMMUNICATION   CAR PROCESSOR
                          LAYERS FOR
                          OC SYSTEM

APPLICATION(S)		APPLICATION(S
CAR INTERFACE MANAGER (API)	~50 52~	CAR INTERFAC MANAGER (API
PRIORITY MANAGER		PRIORITY MANAG
LOGGING MANAGER		LOGGING MANAG
SECURITY MANAGER		SECURITY MANAG
OPERATING SYSTEM		OPERATING SYST
HARDWARE/LINKS INTERFACE		HARDWARE/LIN INTERFACE

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LINK

FIG.2

DOCKET ALARM

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