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Montes

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(54) **ON-SCREEN GEAR SELECTOR FOR AUTOMATIC TRANSMISSION**

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CPC ***F16H 59/08*** (2013.01); ***B60K 20/08*** (2013.01); ***B60K 35/00*** (2013.01); *B60K 2350/1032* (2013.01)

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See application file for complete search history.

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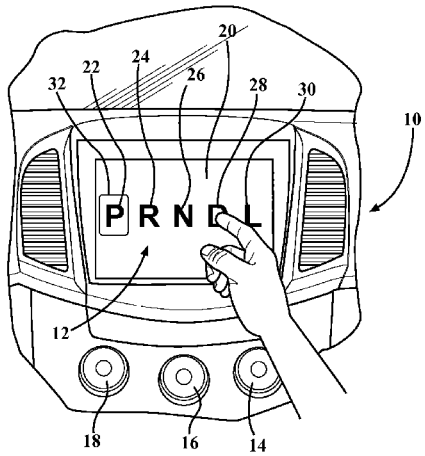
(57) **ABSTRACT**

An on-screen gear selector for an automatic transmission, which provides an interface between the driver and the automatic transmission. The gear selector provides the current selection by the driver to the transmission control unit. The virtual on-screen gear selector provides safety and security features, and is incorporated into the software of the gear selector, such as not allowing the transmission to change from park until the brake pedal is depressed, or not allowing the transmission to change from drive to a lower gear or reverse if the speed of the vehicle is above a predetermined value, thereby avoiding damage to the transmission. The use of the on-screen gear selector also provides the benefit of reducing space and weight of the vehicle, by having less mechanical parts.

18 Claims, 2 Drawing Sheets