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## ANTI-SCRATCHING EDGE HOLDER

HP INC

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## **Anti-Scratching Edge Holder**

**Abstract:** A technical isolating material, such as cloth, is added to the media edge holder of a printer in order to avoid damaging the windowed cover surface of the media advance sensor when the edge holder comes into contact with the sensor surface.

This disclosure relates to the field of printers.

A technique is disclosed that adds a technical isolating material to the media edge holder to avoid damaging the cover surface of the media advance sensor.

The lateral edges of most types of print media tend to lift up during printing, and thus risk provoking a crash with the print carriage. Such a crash can cause severe damage to the print mechanism. To avoid this, some printers use an edge holder. The edge holder is a part which is assembled in the printing surface area to maintain the lateral edges of the media as flat as possible, in order to avoid such crashes between the media and the carriage during the printing operations.

However, the edge holder can damage the cover of the media advance sensor, which is located in the printing surface area. This sensor controls the advance movements of the media during printing. Its cover is transparent in order to not interfere with the sensor readings. If, however, the cover becomes damaged, incorrect sensor measurements will be obtained, which in turn causes media advance errors and resulting quality defects in the plot. In extreme cases the sensor is not able to read at all, and the printer becomes inoperable.

According to the present disclosure, and as understood with reference to the Figure, a piece of technical isolating material 20 is applied to the side of the edge holder 10 which contacts the media advance sensor cover window. The material beneath the edge holder protects the window from damage.

The edge holder 10 comprises a plastic part 30 accessible by the operator during handling operations, and a piece of sheet metal 40 which functions to hold the media down and maintain it flat during the media advance movements along the printing surface area. A technical isolating material protector 20, such as for example a cloth protector, is attached beneath the sheet metal part 40 of the edge holder 10. As a result, when the edge holder 10 touches the surface of the media advance sensor, it does not scratch the sensor's cover window, and proper media advance performance is maintained.

***Disclosed by Ricardo Oltra Ramirez, Lluís Solé Enrech, Jose Angel Villasante Bernbibre, and Jose Garcia Martinez, HP Inc.***

