

# **CONNECTION STRUCTURE FOR COMPOSITE BACKREST AND A METHOD FOR MAKING THE SAME**

## **ABSTRACT**

The present invention relates to a connection structure for a composite backrest and a method for making the same. The connection structure includes two frames, a backrest body, and metal bushings. The metal bushings include a group of left metal bushings and a group of right metal bushings. The two frames are respectively fixed to the left side and the right side of the backrest body by the group of left metal bushings and the group of right metal bushings. The method for making the connection structure includes the following steps: punching the backrest body and the frames; placing the frames into the backrest body; processing the metal bushings; sandblasting or sanding the external surface of the metal bushing; coating a configured structural adhesive on the metal bushing, and oppositely bonding the metal bushing from the two sides of a hole in the frame of the backrest; fixing the bonded metal bushing by a tool; and placing the fixed metal bushing, the composite backrest and the two frames into a drying oven for heating. The new connection structure provides more reliable structural strength between the composite backrest and a support component thereof, and has improved performance of force transmission, while providing the strength required under conditions such as high impact and high torsion.

Figure 3