

Title (en)  
ONE-PIECE AXLE TUBE HOUSING ASSEMBLY

Title (de)  
EINTEILIGES ROHRFÖRMIGES ACHSGEHÄUSE

Title (fr)  
ENSEMBLE TROMPETTE TUBULAIRE MONOBLOC

Publication  
**EP 1539396 A1 20050615 (EN)**

Application  
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Abstract (en)  
[origin: KR20050042816A] A method of manufacturing an axle tube housing for a differential assembly includes heating a localized area (108) of a one-piece tubular blank (102). A mandrel (116) is inserted within the tubular blank and the localized area (108) is then deformed to provide an increased wall thickness. A compression force is applied to the localized area of the one-piece tubular blank using a forging die (126) to form a spindle section, wherein the spindle section closely conforms to at least one of the forging die (126) and the mandrel (116). The remaining portion of the one-piece tubular blank is then cold reduced to form a carrier section.

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IPC 8 full level  
**B21K 1/10** (2006.01); **B21K 1/26** (2006.01); **B21K 21/12** (2006.01)

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