

Title (en)  
TUBE PLATE FOR A WIPER SYSTEM

Title (de)  
ROHRPLATINE FÜR EINE WISCHERANLAGE

Title (fr)  
PLATINE TUBULAIRE POUR SYSTEME D'ESSUIE-GLACE

Publication  
**EP 1037775 A1 20000927 (DE)**

Application  
**EP 99945892 A 19990703**

Priority  
• DE 9902051 W 19990703  
• DE 19833159 A 19980723

Abstract (en)  
[origin: DE19833159A1] The bar tube (12) and tube support (14) are manufactured in one piece, and the bar support accommodates with no clearance a bearing bush (40) which consists of a set-free material and is pressed into tube support with interference. The bearing bush has a circumferential toothing extending in the axial direction. A bush of sintered material or plastic may be pressed into the bearing bush, and a coating of plastic may be injected into the bearing bush. An Independent claim is included for a procedure for the manufactured of a tubular bar in which the tube support manufactured closed by an internal high pressure process is centrally slotted on the end face sides and the resulting lobes bent over inwards at least on one side.

IPC 1-7  
**B60S 1/04**

IPC 8 full level  
**B60S 1/04** (2006.01); **B60S 1/34** (2006.01)

CPC (source: EP KR)  
**B60S 1/04** (2013.01 - KR); **B60S 1/0425** (2013.01 - EP); **B60S 1/34** (2013.01 - EP); **B60S 1/0419** (2013.01 - EP); **B60S 1/0433** (2013.01 - EP); **B60S 1/349** (2013.01 - EP)

Citation (search report)  
See references of WO 0005110A1

Cited by  
US7345643B2

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**DE 19833159 A1 20000127**; **DE 19833159 B4 20110324**; EP 1037775 A1 20000927; JP 2002521259 A 20020716; KR 20010024229 A 20010326; WO 0005110 A1 20000203

DOCDB simple family (application)  
**DE 19833159 A 19980723**; DE 9902051 W 19990703; EP 99945892 A 19990703; JP 2000561082 A 19990703; KR 20007003044 A 20000322