

Title (en)  
IMPROVED PNEUMATIC SAFETY CIRCUIT FOR AIR INFLATION DEVICES

Publication  
**EP 0473648 A4 19931229 (EN)**

Application  
**EP 90907868 A 19891218**

Priority  
CA 598396 A 19890501

Abstract (en)  
[origin: WO9013445A1] The invention provides an improved pneumatically operated circuit for automatically shutting off the flow of high pressure air (10) being introduced into an object (18) to be inflated, such as a tire, when the pressure in the object reaches a preselected maximum pressure significantly below that of the high pressure supply (10). The air at high pressure is introduced into the object (18) and into a control duct (38) also connected to the object (18), until pressure in the control duct (38) overcomes the bias of a control valve (13), at which time the control valve (13) closes to interrupt the flow of high pressure air (10) and allow pressure in the object (18) and the control duct (38) to equilibrate; if the equilibrated pressure does not continue to overcome the bias of a control valve (13), the control valve again opens to admit additional high pressure air (10) to the object (18) and control duct (38) until the bias of the control valve (13) again is overcome and the control valve (13) closed as previously, repeating the closing cycle.

IPC 1-7  
**B60C 23/00**

IPC 8 full level  
**B60S 5/04** (2006.01)

CPC (source: EP)  
**B60S 5/043** (2013.01)

Citation (search report)  
• [A] GB 1550345 A 19790815 - DUNLOP LTD  
• [A] DE 3042728 A1 19820909 - WOLLSCHIED OTTO  
• See references of WO 9013445A1

Designated contracting state (EPC)  
DE IT

DOCDB simple family (publication)  
**WO 9013445 A1 19901115**; EP 0473648 A1 19920311; EP 0473648 A4 19931229

DOCDB simple family (application)  
**US 8905837 W 19891218**; EP 90907868 A 19891218