

Title (en)  
IMPROVED PHANTOM FLOW CONTROL METHOD AND APPARATUS

Title (de)  
VERBESSERTE "PHANTOM" VERFAHREN UND ANLAGE ZUR VERKEHRSKONTROLLE

Title (fr)  
APPAREIL ET PROCEDE AMELIORES D'ELIMINATION D'UN FLUX FANTOME

Publication  
**EP 0972382 A1 20000119 (EN)**

Application  
**EP 98912116 A 19980327**

Priority  
• US 9806199 W 19980327  
• US 82520197 A 19970327  
• US 82623597 A 19970327

Abstract (en)  
[origin: WO9843395A1] A flow control method and apparatus for controlling flow through an output link in a communication network modifies a Phantom flow control method by calculating a maximum allowable cell rate as a function of a number of active flows through the output link. To accomplish this, the method and apparatus calculates alpha smoothing parameters as a function of a number of virtual channels flowing through the output link. The method and apparatus improves the stability of the Phantom flow control method, and also enables it to be used with less costly network switches, such as shared memory switches. The flow control method and apparatus prevents a portion of the total bandwidth of the output link from being used when the maximum allowable cell rate through that output link is calculated.

IPC 1-7  
**H04L 12/56**; **H04Q 11/04**

IPC 8 full level  
**H04L 12/54** (2013.01); **H04L 12/801** (2013.01); **H04L 12/933** (2013.01); **H04Q 11/04** (2006.01); **H04L 12/70** (2013.01)

CPC (source: EP)  
**H04L 12/5601** (2013.01); **H04L 12/5602** (2013.01); **H04L 47/11** (2013.01); **H04L 49/107** (2013.01); **H04L 49/108** (2013.01); **H04Q 11/0478** (2013.01); **H04L 2012/5631** (2013.01); **H04L 2012/5632** (2013.01); **H04L 2012/5636** (2013.01); **H04L 2012/5681** (2013.01); **H04L 2012/5682** (2013.01)

Citation (search report)  
See references of WO 9843395A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 9843395 A1 19981001**; AU 6591098 A 19981020; AU 717162 B2 20000316; CA 2285086 A1 19981001; CA 2285086 C 20030812; EP 0972382 A1 20000119; EP 1381192 A1 20040114

DOCDB simple family (application)  
**US 9806199 W 19980327**; AU 6591098 A 19980327; CA 2285086 A 19980327; EP 03077139 A 19980327; EP 98912116 A 19980327