

Title (en)
CYCLICALLY MOVEABLE GROUND-ENGAGING STRUCTURE

Title (de)
ZYKLISCH BEWEGBARE BODENVERBUNDSTRUKTUR

Title (fr)
STRUCTURE CYCLIQUEMENT MOBILE POUR CONTACT AU SOL

Publication
EP 0865368 A1 19980923 (EN)

Application
EP 96937935 A 19961120

Priority
• AU 9600740 W 19961120
• AU PN667695 A 19951120
• AU PN670595 A 19951120
• AU PN853696 A 19960307

Abstract (en)
[origin: WO9718959A1] A cyclically moveable ground-engaging structure such as a tyre. The tyre comprises a resiliently deformable body (11) having a inner surface (15) and two opposed lateral sides (23). A plurality of cavities (11) provided in the body, the cavities being in a first set (31) and a second set (32) on each of the two lateral sides of the body. Each cavity has one end thereof opening onto the respective side (23) of the body and is closed at the other end. The first set (31) of cavities on each side is disposed outwardly of the second set (32) of cavities on the same side in the direction away from the inner surface (15). The cavities (33) in the first set (31) on each side are offset in the direction of cyclical movement with respect to the cavities (34) in the second set (32) on the same side. The cavities (33) in the first set (31) on one side of the body are offset in the direction of cyclical movement with respect to the cavities (33) in the first set (31) on the other side of the body, and the cavities (34) in the second set (32) on one side of the body are offset in the direction of cyclical movement with respect to the cavities (34) in the second set (32) on the other side of the body. With this arrangement, the cavities (33, 34) on each side (23) of the body (11) are staggered in the direction of cyclical movement and so no one of the cavities (33, 34) is in alignment with any other one of the cavities in a direction normal to the direction of cyclical movement.

IPC 1-7
B60C 7/10; **B60C 7/08**; **B62D 55/26**; **B62D 55/24**

IPC 8 full level
B60C 7/08 (2006.01); **B60C 7/10** (2006.01)

CPC (source: EP US)
B60C 7/08 (2013.01 - EP); **B60C 7/107** (2021.08 - EP US)

Cited by
US6314183B1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
WO 9718959 A1 19970529; CN 1089299 C 20020821; CN 1207708 A 19990210; EP 0865368 A1 19980923; EP 0865368 A4 19990217; JP 2000515452 A 20001121

DOCDB simple family (application)
AU 9600740 W 19961120; CN 96199576 A 19961120; EP 96937935 A 19961120; JP 51923197 A 19961120