

Title (en)
CULTIVATING DEVICE

Title (de)
KULTIVIERVORRICHTUNG

Title (fr)
DISPOSITIF DE TRAVAIL DU SOL

Publication
EP 1538887 A4 20120704 (EN)

Application
EP 02807692 A 20021003

Priority
• US 0231663 W 20021003
• US 40369302 P 20020815

Abstract (en)
[origin: WO2004016070A2] A cultivator for aerating a ground surface. The cultivator has a support frame moveable relative to the ground surface and a follower first pivotally connected to the support frame by a first pair of spaced link arms. The link arms have two pairs of equidistantly spaced pivot points for linear movement of the follower in a first direction away from the support frame. A tool support member is pivotally connected to the follower by a second pair of spaced link arms. The second link arms have two pairs of equidistantly spaced pivot points for linear movement of a cultivating tool in a second direction substantially perpendicular to the first direction. A driver effects cyclic movement of the tool support member in the second direction and movement of the follower in the first direction. A bias element provides resilient damping of the movement of the follower along the first direction away from the support frame, wherein the resilient damping is provided at an extremity of movement of the follower outward from the support frame along the first direction, to urge the follower in the direction of inward movement toward the support frame. A dampening element provides resilient damping of the movement of the follower along the first direction toward the support frame, the resilient damping provided at an extremity of movement of the follower inward toward the support frame in the first direction to progressively arrest movement of the follower in the direction of inward movement toward the support frame.

IPC 8 full level
A01B 45/00 (2006.01); **A01B 45/02** (2006.01)

IPC 8 main group level
A01G (2006.01)

CPC (source: EP)
A01B 45/023 (2013.01)

Citation (search report)
• [XA] GB 2333219 A 19990721 - TURFMECH MACHINERY LIMITED [GB], et al
• See references of WO 2004016070A2

Citation (examination)
• WO 02080651 A1 20021017 - DEERE & CO [US], et al
• GB 2333219 A 19990721 - TURFMECH MACHINERY LIMITED [GB], et al

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
WO 2004016070 A2 20040226; WO 2004016070 A3 20040805; AU 2002334827 A1 20040303; AU 2002334827 B2 20100429;
EP 1538887 A2 20050615; EP 1538887 A4 20120704

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