

Title (en)
MULTI-FUNCTION YO-YO

Title (de)
MEHRZWECK-JO-JO

Title (fr)
YO-YO MULTIFONCTION

Publication
EP 1850936 A1 20071107 (EN)

Application
EP 06706349 A 20060123

Priority
• EP 2006000542 W 20060123
• US 64644805 P 20050124

Abstract (en)
[origin: US2006166595A1] A multi-function yo-yo switchable between operation as a fixed-axle yo-yo, a free-axle yo-yo, and a centrifugal-clutch yo-yo (i.e., a yo-yo which operates as a free-axle yo-yo when it spins sufficiently rapidly, and as a fixed-axle yo-yo when it spins sufficiently slowly). Within one or both of the fly disks is one or more rotational-speed governors, and about the axle is a cylindrical axle sleeve which is rotatable about the axle. Each governor is spring-biased to an inwards position where a contact pad on the governor contacts the axle sleeve, forcing the axle sleeve to rotate with the fly disks and axle. However, when the yo-yo spins sufficiently rapidly, the governors are thrown by centrifugal force to a radially-outwards position where the contact pads are not in contact with the axle sleeve so that the axle sleeve may rotate independently of the fly disks. A function control switch on the exterior of the yo-yo is easily accessible and allows rapid switching between yo-yo functions. Preferably, the switch has multiple throw levers about the exterior of the yo-yo to facilitate quick access. In its first position, the switch locks the governors in the inwards position and the yo-yo operates as the fixed-axle yo-yo. In its second position, the switch locks the governors in the outwards position and the yo-yo operates as the free-axle yo-yo. In its third position, the positions of the governors is determined by the balance between centrifugal force and the spring biasing, and the yo-yo operates as the centrifugal-clutch yo-yo.

IPC 8 full level
A63H 1/30 (2006.01)

CPC (source: EP US)
A63H 1/30 (2013.01 - EP US)

Citation (search report)
See references of WO 2006077148A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2006166595 A1 20060727; AT E400338 T1 20080715; CN 100571828 C 20091223; CN 101107050 A 20080116; DE 602006001736 D1 20080821; EP 1850936 A1 20071107; EP 1850936 B1 20080709; HK 1111929 A1 20080822; WO 2006077148 A1 20060727

DOCDB simple family (application)
US 33742306 A 20060123; AT 06706349 T 20060123; CN 200680003011 A 20060123; DE 602006001736 T 20060123; EP 06706349 A 20060123; EP 2006000542 W 20060123; HK 08106754 A 20080618