

Title (en)

Electromechanical apparatus for launching balls, in particular footballs.

Title (de)

Elektromechanisches Übungsgerät zum Werfen von Bällen, insbesondere von Fussbällen.

Title (fr)

Appareil électromécanique d'entraînement pour lancer des ballons, notamment de football.

Publication

**EP 0520929 B1 19950315 (FR)**

Application

**EP 92480091 A 19920623**

Priority

FR 9107846 A 19910624

Abstract (en)

[origin: EP0520929A1] Training apparatus for launching balls, in particular footballs, of the type using a magazine containing the balls (3). The said balls (3) are led via a chute (4) and by means of gravity, one by one, to a firing station (5), where a means acts as a launching arm. The lower end (8) of the chute (4) for supplying the balls (3), which emerges at the firing station (5), is provided with a single dispenser of balls (3). The ejection arm (10) is mounted integrally with a shaft (11) mounted on bearings (12, 13, 14) and equipped with a return spring (42) on which a launching arm (15) is also mounted, the said launching arm (15) is actuated by a motorisation arm (16) which strikes the launching arm (15) in rotation, the motorisation arm (16) comprises an adjustment means which makes it possible to vary its radius (R, R) so as to give greater or lesser power to its lever arm. The firing station (5) is formed by a cradle which is provided with means for adjustment in horizontal (F7, F8) and vertical (F9, F10) translation. Football training apparatus. <IMAGE>

IPC 1-7

**A63B 69/40**

IPC 8 full level

**A63B 69/00** (2006.01); **A63B 69/40** (2006.01); **A63F 9/02** (2006.01)

CPC (source: EP US)

**A63B 69/0024** (2013.01 - EP US); **A63B 69/408** (2013.01 - EP US); **A63B 2208/12** (2013.01 - EP US); **A63F 2009/026** (2013.01 - EP US)

Cited by

EP1020207A1; CN112405553A; FR2688700A1; DE19719086A1; DE19719086B4; FR2946543A1; WO2012028831A1; WO2019166738A1; WO2008056038A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0520929 A1 19921230**; **EP 0520929 B1 19950315**; AT E119795 T1 19950415; AU 2174092 A 19930125; AU 666658 B2 19960222; CA 2111582 A1 19930107; CA 2111582 C 20021015; DE 69201685 D1 19950420; DE 69201685 T2 19951214; DK 0520929 T3 19950731; ES 2072735 T3 19950716; FI 935849 A0 19931223; FI 935849 A 19931223; FI 96180 B 19960215; FI 96180 C 19960527; FR 2677892 A1 19921224; FR 2677892 B1 19940218; NO 300668 B1 19970707; NO 934336 D0 19931130; NO 934336 L 19931130; PL 168790 B1 19960430; US 5465978 A 19951114; WO 9300138 A1 19930107

DOCDB simple family (application)

**EP 92480091 A 19920623**; AT 92480091 T 19920623; AU 2174092 A 19920623; CA 2111582 A 19920623; DE 69201685 T 19920623; DK 92480091 T 19920623; ES 92480091 T 19920623; FI 935849 A 19931223; FR 9107846 A 19910624; FR 9200568 W 19920623; NO 934336 A 19931130; PL 30188292 A 19920623; US 16791193 A 19931220