

Title (en)
Transverse feeding facility.

Title (de)
Transversaler Förderer.

Title (fr)
Transporteur transversal.

Publication
EP 0209503 A1 19870121 (EN)

Application
EP 86850221 A 19860617

Priority
SE 8503046 A 19850619

Abstract (en)
The disclosure relates to a round feeding device for fully- and semi-automatic artillery pieces, adapted for the stepwise transverse feeding of the rounds (5), transversely of their own longitudinal direction. This transverse feeding is realised by means of two parallel, rotationally interconnected feed screws (1, 2), whose pitch, outer diameter and flange thicknesses (a, b) on the screw threads have been adapted to the current diameters of the rounds (5) on a level with that point along the nose and case sections, respectively, where the rounds rest on the feed screws (1, 2). Rotation of the feed screws is realised in that the linear return movement of a helical spring (7) axially compressed by recoil of the gun is converted into a rotary movement by the intermediary of a rack (6) fixedly connected to the spring (7) and therewith interconnected cog wheels (8, 10 and 14). The apparatus further comprises governed brake means (12, 13, 19 and 16) which ensure that the feed screws are braked unto arrest at the end of each feed step.

IPC 1-7
F41F 9/02

IPC 8 full level
F41A 9/03 (2006.01)

CPC (source: EP)
F41A 9/03 (2013.01)

Citation (search report)
• US 2647442 A 19530804 - SIGMUND SCHIFF
• US 3696704 A 19721010 - BACKUS LESTER FRANK, et al

Designated contracting state (EPC)
CH DE FR IT LI SE

DOCDB simple family (publication)
EP 0209503 A1 19870121; EP 0209503 B1 19890503; DE 3663193 D1 19890608; SE 460074 B 19890904; SE 8503046 D0 19850619;
SE 8503046 L 19861220

DOCDB simple family (application)
EP 86850221 A 19860617; DE 3663193 T 19860617; SE 8503046 A 19850619