

Title (en)
Drum magazine for a gun.

Title (de)
Trommelmagazin für eine Feuerwaffe.

Title (fr)
Chargeur à tambour pour arme à feu.

Publication
EP 0054089 A1 19820623 (EN)

Application
EP 80304480 A 19801211

Priority
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Abstract (en)
A drum magazine has a housing (40) and three independently rotatable concentric sprocket members (42, 43, 44) each having a serration around its outer periphery to nest cartridges parallel to the housing axis. A torsion spring (46) rotatably drives the inner sprocket member (44) and feed ramps (434, 441, 455, 455 min, 471, 471 min) assist the cartridges in traversing from the sprocket members to the feed throat (41, 5) exit. Stops limit sprocket member rotation with respect to the housing or surrounding sprocket member. One (417) of the feed throat lips is pivotally biased to act as a one way valve such that cartridges may be inserted into the housing transverse to the housing axis, but slid therefrom. Latch means (447, 462) between outer sprocket member (42) and housing and intermediate (43) and outer sprocket member prevent rotation in a counter direction to the cartridge ejecting direction until the outer or intermediate sprocket is rotated in said counter direction a predetermined amount. The latch means serve also as a connector between the sprocket members in the ejecting direction by engagement with the nested cartridges only in a direction parallel to that axis. A last round stop actuator is arranged to travel with the cartridge pusher (47) and is spring biased to extend outside the housing when the pusher is in its extreme end position in the feed throat.
The drum magazine for a gun has a housing (40) with a peripheral wall defining a circular cross section interior. A feed throat extends through the wall to release cartridges from the housing. At least two rotatable sprockets (42-44) have apertures (454, 470) to allow cartridges to pass from the inner sprocket to the outer. The outer periphery of the sprockets each have serrations to nest the cartridges. A ramp can extend from the feed throat to scoop cartridges from the outer sprocket and a second can scoop them from the inner.

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Citation (search report)
• [X] GB 463691 A 19370402 - LATHAM VALENTINE STEWART BLACK
• [X] FR 491235 A 19190527 - AUBERT FRERES SOC [FR]
• GB 472784 A 19370930 - OSKAR ALFRED OSTMAN, et al
• [A] US 2321720 A 19430615 - WHITTAKER JOHN R
• [X] DE 44923 C
• [X] GB 535325 A 19410404 - MELVIN MAYNARD JOHNSON JUNIOR
• DE 649860 C 19370904 - MAUSER WERKE AG
• US 3239959 A 19660315 - SEFRIED HARRY H, et al
• CH 110768 A 19250701 - DANSK REKYLRIFTEL SYNDIKAT AS [DK]
• US 2585738 A 19520212 - WARREN CHAPIN ELLIS, et al
• US 2715290 A 19550816 - HARVEY EARLE M
• BE 441561 A
• [X] GB 191309478 A 19130918 - IMRAY OLIVER [GB]
• CH 237418 A 19450430 - OERLIKON BUEHRLE AG [CH]

Cited by
US6408837B1; CN113338592A

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