

CPC**COOPERATIVE PATENT CLASSIFICATION****F41J**

TARGETS; TARGET RANGES; BULLET CATCHERS { (targets for shooting or hurling games [A63F 9/0204](#)) }

Guidance heading:**F41J 1/00**

Targets; Target stands; Target holders ([F41J 2/00](#) to [F41J 11/00](#) take precedence; targets combined with bullet catchers [F41J 13/02](#))

F41J 1/01

- . Target discs characterised by their material, structure or surface, { e.g. clay pigeon targets characterised by their material } ([F41J 5/044](#) takes precedence)

F41J 1/08

- . for ordnance, e.g. cannons; for attacking by aircraft; Full-scale models imitating target objects, e.g. tanks, aircraft

F41J 1/10

- . Target stands; Target holders

F41J 2/00

Reflecting targets, e.g. radar-reflector targets; Active targets transmitting electromagnetic {or acoustic } waves

F41J 2/02

- . Active targets transmitting infra-red radiation

F41J 3/00

Targets for arrows or darts, e.g. for sporting or amusement purposes { (targets for shooting or hurling games [A63F 9/0204](#)) }

F41J 3/0004

- . { Archery targets }

F41J 3/0009

- . { Dartboards }

F41J 3/0014

- .. { Dartboard holders }

F41J 3/0019

- ... { Stands or wall mountings especially adapted for dartboards }

F41J 3/0023

- ... { Holders especially adapted for rotating the dartboard during use }

F41J 3/0028

- ... { Dart cabinets, i.e. cabinets adapted for the dartboard or dartboard accessories }

F41J 3/0033

- .. { Dartboards for use with safety darts }

F41J 3/0038

- ... { having a smooth surface especially for suction tips darts }

F41J 3/0042

- ... { having perforations for receiving blunt tip darts }

F41J 3/0047

- ... { having protrusions for receiving blunt tip darts in between }

F41J 3/0052

- ... { having a hook and loop surface for hook and loop tip darts }

F41J 3/0057

- ... { having a magnetic surface for receiving magnetic tip darts }

F41J 3/0061

- .. { Target faces }

F41J 3/0066

- ... { Segmentation of conventional target faces }

F41J 3/0071

- ... { Non-conventional target faces }

F41J 3/0076

- { Target faces simulating a different sport or game, e. g. football, billiard or rugby }

- F41J 3/008 . . . { characterised by the material }
- F41J 3/0085 { made of natural fibres }
- F41J 3/009 { made of plastic or foam }
- F41J 3/0095 . . { Manufacture of dartboards }

- F41J 3/02 . Indicators or score boards for arrow or dart games { (F41J 5/00 takes precedence; timetables, lists or forms for shooter enlistment [B42D 15/0066](#)) }

- F41J 5/00** **Target indicating systems; Target-hit or score detecting systems** { (for shooting or hurling games [A63F 9/0204](#); devices for measuring projectile velocity using optical means [G01P 3/685](#)) }

- F41J 5/02 . Photo-electric hit-detector systems { (comprising a light-emitting device for simulating the firing of a gun [F41G 3/2622](#); detecting by optical means [G01V 8/10](#)) }

- F41J 5/04 . Electric hit-indicating systems; Detecting hits by actuation of electric contacts or switches
- F41J 5/041 . . {Targets comprising two sets of electric contacts forming a coordinate system grid }
- F41J 5/042 . . {Targets comprising a system of electric contacts lying in the same plane for bridging by hitting projectiles }
- F41J 5/044 . . Targets having two or more electrically-conductive layers for short-circuiting by penetrating projectiles
- F41J 5/048 . . . one of the layers being in the form of discrete target sections
- F41J 5/052 . . Targets comprising a plurality of electric contacts, each corresponding to a discrete target section and being actuated by the movement thereof ([F41J 5/056](#) takes precedence)
- F41J 5/056 . . Switch actuation by hit-generated mechanical vibration of the target body, e.g. using shock or vibration transducers

- F41J 5/06 . Acoustic hit-indicating systems, i.e. detecting of shock waves ([F41J 5/056](#) takes precedence)

- F41J 5/08 . Infra-red hit-indicating systems

- F41J 5/10 . Cinematographic hit-indicating systems (cinematographic targets [F41J 9/14](#))

- F41J 5/12 . for indicating the distance by which a bullet misses the target ([F41J 5/02](#) - [F41J 5/10](#) takes precedence)

- F41J 5/14 . Apparatus for signalling hits or scores to the shooter, e.g. manually operated, or for communication between target and shooter; Apparatus for recording hits or scores
- F41J 5/16 . . Manually evaluating scores, e.g. using scoring plugs or gauges; Apparatus for evaluating scores on targets after removal from the target holder

- F41J 5/18 . Targets having hit-indicating means actuated or moved mechanically when the target has been hit, e.g. discs or flags (the target as a whole disappearing or moving when hit [F41J 7/04](#))
- F41J 5/20 . . indicating which part of the target has been hit, i.e. the score
- F41J 5/205 . . . {having target sections displaced or broken when hit e.g. for visual inspection }
- F41J 5/22 . . the indicating means being a dispensing device

- F41J 5/24 . Targets producing a particular effect when hit, e.g. detonation of pyrotechnic charge, bell ring, photograhp
- F41J 5/26 . . exploding or disintegrating when hit ([F41J 9/16](#) takes precedence)
- F41J 7/00 Movable targets which are stationary when fired at**
- F41J 7/02 . movable for checking
- F41J 7/04 . disappearing {or moving } when hit { (exploding targets [F41J 5/26](#); exploding clay-pigeon targets [F41J 9/165](#)) }
- F41J 7/06 . Bobbing targets, i.e. targets intermittently or unexpectedly appearing
- F41J 9/00 Moving targets, i.e. moving when fired at ([F41J 2/00](#) takes precedence)**
- F41J 9/02 . Land-based targets {e.g. inflatable targets supported by fluid presssure }
- F41J 9/04 . Seagoing targets
- F41J 9/06 . . towed
- F41J 9/08 . Airborne targets, e.g. drones, kites, balloons { (aircraft for towing targets [B64D 3/02](#)) }
- F41J 9/10 . . towed
- F41J 9/14 . Cinematographic targets, e.g. moving-picture targets { ([F41G 3/26](#) takes precedence) }
- F41J 9/16 . Clay-pigeon targets; Clay-disc targets { ([F41J 1/01](#) takes precedence) }
- F41J 9/165 . . {with hit-marking or tracer means }
- F41J 9/18 . . Traps or throwing-apparatus therefor
- F41J 9/20 . . . with spring-operated throwing arm
- F41J 9/22 cocked by manual action
- F41J 9/24 cocked by electromechanical means
- F41J 9/26 . . . operated by fluid means
- F41J 9/28 . . . operated by manual action
- F41J 9/30 . . . characterised by using a magazine of targets
- F41J 9/32 . . . characterised by means for obviating the anticipation of the flight path
- F41J 11/00 Target ranges { (timetables, lists or forms for shooter enlistment [B42D 15/0066](#)) }**
- F41J 11/02 . Safety means therefor
- F41J 13/00 Bullet catchers**
- F41J 13/02 . combined with targets