

Title (en)
Oscillating turret for an armoured vehicle.

Title (de)
Schwingturm für Panzerfahrzeug.

Title (fr)
Tourelle oscillante pour engin blindé.

Publication
EP 0122187 A1 19841017 (FR)

Application
EP 84400620 A 19840328

Priority
FR 8305498 A 19830405

Abstract (en)
1. Turret for an armoured vehicle comprising a saddle (3) mounted on the vehicle via a ring race (5) allowing its rotation around a vertical axis and an oscillating body (2) mounted on the saddle via trunnions (9) so as to be able to oscillate around a horizontal axis, the saddle being made up of a baseplate (19) and front, rear and side walls (18, 20 and 21) and covered by the oscillating body, characterized by the fact that the baseplate (19) of the saddle is located approximately in the plane of the ring race (5), that the front and rear walls (18 and 20) of the saddle are made up of sections of cylindrical surfaces the axes of which coincide with the axes of the trunnions (9) and delimit with the side walls (21) in the plane of the baseplate (19) a polygon circumscribed about the circular opening of the baseplate bordered by the ring race (5), and that the oscillating body (2) has, seen from the side, the shape of two trapezes joined by their long bases, its side walls (16) consisting of inclined panels assembled to form protruding edge dihedrons.

Abstract (fr)
L'invention a pour objet une tourelle pour engin blindé comportant une sellette (3) montée sur l'engin par l'intermédiaire d'une couronne de roulement (5) permettant sa rotation autour d'un axe vertical et un corps oscillant (2) monté sur la sellette par l'intermédiaire de tourillons (9) de façon à pouvoir osciller autour d'un axe horizontal. Pour augmenter l'espace disponible à l'intérieur de la tourelle et améliorer la protection de l'équipage, le corps oscillant (2) coiffe la sellette (3) et cette dernière est formée d'une embase (19) située approximativement dans le plan de la couronne de roulement (5), et de parois avant (18), arrière (20) et latérales (21) circonscrites à la dite couronne de roulement, les parois avant et arrière divergeant vers le haut à partir du plan de l'embase.

IPC 1-7
F41F 21/14; F41H 5/20

IPC 8 full level
F41A 27/18 (2006.01); **F41H 5/20** (2006.01)

CPC (source: EP)
F41A 27/18 (2013.01)

Citation (search report)
• [X] US 2594198 A 19520422 - LEWIS MOTLEY
• [A] FR 1358796 A 19640417 - RHEINMETALL GMBH
• [Y] FR 1003862 A 19520324 - EXPL DES BREVETS M G D SOC POU
• [Y] DE 2141937 A1 19730301 - RHEINSTAHL AG
• [Y] DE 713271 C 19411105 - KRUPP AG
• [Y] DE 2202990 B1 19730530 - RHEINSTAHL AG
• [A] FR 787650 A 19350926 - FORGES CHANTIERS MEDITERRANEE
• [A] FR 411462 A 19100617 - MAX NOACK [DE]
• [A] SOLDAT UND TECHNIK, no. 10, octobre 1980, pages 544-547, Frankfurt/Main, DEK.-H. KRATZENBERG: "Der Turm des Leopard 2"

Cited by
CN105849501A; JP2016526660A; ITTO20130580A1; CN105793665A; JP2016526659A; EP0844455A3; EP3926288A1; WO2015004568A1; KR20160037157A; US9482493B2; EP3019818A1

Designated contracting state (EPC)
AT BE CH DE GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0122187 A1 19841017; EP 0122187 B1 19870603; AT E27655 T1 19870615; DE 3464095 D1 19870709; FR 2544065 A1 19841012; FR 2544065 B1 19870904; IN 159661 B 19870530

DOCDB simple family (application)
EP 84400620 A 19840328; AT 84400620 T 19840328; DE 3464095 T 19840328; FR 8305498 A 19830405; IN 205MA1984 A 19840328