

Title (en)
Safety screw for climbing on ice

Title (de)
Eisschraube

Title (fr)
Vis à glace

Publication
EP 1491238 A2 20041229 (EN)

Application
EP 04013939 A 20040615

Priority
IT MI20030291 U 20030620

Abstract (en)
The invention relates to an ice screw having the function of supporting a carabiner in which the safety rope of a climber slides. The screw is equipped, on the head portion, with a grip that enables ease of screwing of the screw with the aid also of a tuck-away lever, which minimizes the effort required to the climber. The screw is moreover provided with a supporting ring to which it is possible to anchor a carabiner. The ring is free to rotate about the cylindrical portion of the screw and thus enables the climber to operate the lever even when the safety rope is engaged in the carabiner. This eliminates the risks that the screw may drop and be lost following upon incomplete insertion into the ice, because in any case it remains anchored to the safety rope (also during recovery of the screw). <IMAGE>

IPC 1-7
A63B 29/02

IPC 8 full level
A63B 29/02 (2006.01)

CPC (source: EP)
A63B 29/025 (2013.01); **A63B 29/027** (2013.01)

Citation (applicant)
• US 5782442 A 19980721 - KWAK HONG KYU [US], et al
• US 5118061 A 19920602 - BYRNE THOMAS F [US], et al

Cited by
EP2599528A1; WO2021245310A1; CN102961856A; KR101960059B1; FR2881056A1; FR2983080A1; ES2884001A1; EP4162988A4; FR2971947A1; EP2719428A1; US9217288B1; EP3854462A1; IT202000001423A1; US8899897B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1491238 A2 20041229; EP 1491238 A3 20050112; EP 1491238 B1 20080409; AT E391535 T1 20080415; DE 602004012926 D1 20080521; IT MI20030291 U1 20041221; IT MI20030291 V0 20030620

DOCDB simple family (application)
EP 04013939 A 20040615; AT 04013939 T 20040615; DE 602004012926 T 20040615; IT MI20030291 U 20030620