

Title (en)
Safety device for actuating a nailer

Title (de)
Sicherheitsvorrichtung zur Betätigung einer Nagelmaschine

Title (fr)
Dispositif de sécurité pour actionner une cloueuse

Publication
EP 2783796 A1 20141001 (EN)

Application
EP 14161924 A 20140327

Priority
IT BO20130138 A 20130329

Abstract (en)
A safety device for actuating a nailer of a type provided with a firing button (5) and safety means including a probe means (9) having an inner end (11) translating along its longitudinal axis approximately parallel to the nails ejection direction between a retracted condition (R) and a protruding condition (S) facing towards the shooting direction and towards which it is elastically pushed by elastic means. Said device (1) comprises: a first trigger (15) rotating in a plane parallel to the button (5) actuation direction, about a first pin (17) perpendicular to the latter direction and fixed to the nailer; an arm means (19) having a first end (21), an end portion (23) opposite the first end and fit to slide against the inner end (11) of the probe means (9) and a central portion fit to act onto the button (5) for operating the latter (5); a second trigger (27) pivoted to the first trigger (15) by means of a second rotation pin (29) parallel to the first pin (17). The first (15) and second (27) triggers are interconnected with the first end (21) of arm means (19), the latter (19) being moved by said triggers; the second trigger (27) assumes two positions with respect to the first (15) wherein respectively places the first end (21) of arm means (19) in a single shoot condition (C) wherein the respective end portion (23) disengages from the inner end (11) of the probe means (9) when the probe means (9) moves from the retracted condition (R) towards the protruding one (S) or when the first trigger (15) exceeds the actuating position of the button (5) towards its actuating extreme position and in an hammer shoots condition (M) wherein the end portion (23) of the arm means (19) always remains engaged to the inner end (11) of the probe means (9) in any position of the first trigger.

IPC 8 full level
B25C 1/04 (2006.01); **B25C 1/00** (2006.01); **B25C 1/18** (2006.01)

CPC (source: EP)
B25C 1/008 (2013.01)

Citation (search report)
• [A] US 2009108046 A1 20090430 - HUANG CHI-SHENG [TW]
• [A] US 2008185415 A1 20080807 - HUANG CHI-SHENG [TW]
• [A] US 6059161 A 20000509 - CHANG HSIN-CHUN [TW], et al
• [A] US 2006213945 A1 20060928 - KE CHIH-CHINE [TW]
• [A] GB 2025562 A 19800123 - MONACELLI UMBERTO
• [A] US 5551621 A 19960903 - VALLEE GLENN E [US]
• [A] US 6860416 B1 20050301 - CHEN MU-YU [TW]

Cited by
CN117885067A; US2018207777A1; CN107584453A; WO2021241100A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2783796 A1 20141001; EP 2783796 B1 20151014; DK 2783796 T3 20160104; IT BO20130138 A1 20140930

DOCDB simple family (application)
EP 14161924 A 20140327; DK 14161924 T 20140327; IT BO20130138 A 20130329