

Title (en)
REINFORCING ROD BINDING MACHINE

Title (de)
VERSTÄRKUNGSSTABBINDEMASCHINE

Title (fr)
MACHINE À LIER LES TIGES DE RENFORCEMENT

Publication
EP 1840030 A1 20071003 (EN)

Application
EP 05844858 A 20051227

Priority
• JP 2005024235 W 20051227
• JP 2005012209 A 20050120

Abstract (en)
It includes a driving load detecting device which detects a driving load amount of a tie wire cutting mechanism, and a tie wire feeding amount control device which controls a feeding amount of the tie wire in a subsequent tying operation in accordance with the detected driving load amount. If the driving load amount when cutting the tie wire is equal to or less than a cutting determination reference value, the tie wire is fed by a normal feeding amount with a predetermined amount being added thereto in the subsequent tying operation to compensate the tie wire feeding amount, whereby a tip end of the tie wire is fed to a position which is same as the position in the normal state. The subsequent tying cycle is executed normally even if the tip end of the tying wire is failed to be clamped due to the failure of the feeding operation of the tie wire and the tie wire is pulled excessively.

IPC 8 full level
B65B 13/18 (2006.01); **B65B 13/28** (2006.01); **E04G 21/12** (2006.01)

CPC (source: EP US)
B65B 13/285 (2013.01 - EP US); **E04G 21/122** (2013.01 - EP US); **E04G 21/123** (2013.01 - EP US)

Citation (search report)
See references of WO 2006077744A1

Cited by
CN102849239A; CN104343242A; EP2196600A3; EP3604710A1; US8752593B2; US9556628B2; US10094127B2; US11136770B2; US10851551B2; US11946267B2

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

DOCDB simple family (publication)
EP 1840030 A1 20071003; AU 2005326187 A1 20060727; CA 2595078 A1 20060727; JP 2006200196 A 20060803; NO 20073770 L 20071019; RU 2007131445 A 20090227; US 2008110354 A1 20080515; WO 2006077744 A1 20060727

DOCDB simple family (application)
EP 05844858 A 20051227; AU 2005326187 A 20051227; CA 2595078 A 20051227; JP 2005012209 A 20050120; JP 2005024235 W 20051227; NO 20073770 A 20070719; RU 2007131445 A 20051227; US 79560205 A 20051227