

Title (en)
Crane safety apparatus

Title (de)
SICHERHEITSANORDNUNG FÜR KRÄNE

Title (fr)
DISPOSITIF DE SECURITE POUR GRUES

Publication
EP 0406419 B2 20020828 (EN)

Application
EP 89904237 A 19890406

Priority
• JP 8900368 W 19890406
• JP 33019788 A 19881227

Abstract (en)
[origin: EP0406419A1] A safety device for a crane, in which a schematic diagram of a part of a crane mechanism is shown dynamically in accordance with an operation of the crane mechanism on a two-dimensional screen with a predetermined operational region shown in the form of a visible identification pattern on the same screen. The pattern of an operational region is shown on the screen on the basis of the schematic diagram of the crane mechanism which is actually shown on the screen in response to an operator's key command given when the crane is in a selected operational condition.

IPC 1-7
B66C 23/90

IPC 8 full level
B66C 13/18 (2006.01); **B66C 13/46** (2006.01); **B66C 15/00** (2006.01); **B66C 23/88** (2006.01); **B66C 23/90** (2006.01)

CPC (source: EP KR)
B66C 13/46 (2013.01 - KR); **B66C 23/90** (2013.01 - KR); **B66C 23/905** (2013.01 - EP)

Cited by
FR2720438A1; EP0539207A1; US8538670B2

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

DOCDB simple family (publication)
EP 0406419 A1 19910109; **EP 0406419 A4 19911127**; **EP 0406419 B1 19950628**; **EP 0406419 B2 20020828**; AT E124381 T1 19950715; AT E185772 T1 19991115; AU 5629990 A 19920109; AU 618900 B1 19920109; DE 68923278 D1 19950803; DE 68923278 T2 19951026; DE 68923278 T3 20040805; DE 68929092 D1 19991125; DE 68929092 T2 20000608; DE 68929092 T3 20050120; EP 0614845 A2 19940914; EP 0614845 A3 19941026; EP 0614845 B1 19991020; EP 0614845 B2 20040512; KR 910700194 A 19910314; KR 940009268 B1 19941006; RU 2093452 C1 19971020; WO 9007465 A1 19900712

DOCDB simple family (application)
EP 89904237 A 19890406; AT 89904237 T 19890406; AT 94201063 T 19890406; AU 5629990 A 19900605; AU 5629990 D 19900605; DE 68923278 T 19890406; DE 68929092 T 19890406; EP 94201063 A 19890406; JP 8900368 W 19890406; KR 900701879 A 19900824; SU 4830987 A 19890406