

Title (en)
POSITION-MEASURING DEVICE FOR CRANE CONVEYING AND TELPHER LINES

Publication
EP 0352565 A3 19911113 (DE)

Application
EP 89112901 A 19890714

Priority
DE 3825097 A 19880723

Abstract (en)
[origin: JPH02132096A] PURPOSE: To accurately measure a distance by providing codemarks on one track both in front and in rear in order on a code carrier arranged along a travel rail, and forming one code word of (m) pieces of codemarks. CONSTITUTION: In a boom (travel rail) to guidingly support a trolley 4 of a crane 1, a code carrier 11 is extendingly provided from a web 9 in the longitudinal direction, and the trolley 4 is provided with a code reader 12 opposite to the code carrier 11 to send its read signal to an evaluation circuit 14. The code carrier 11 is provided in series with a code mark 17 consisting of an opaque area 16' or a transparent area 16", and in each four lamps 18 of the reader 12 and four code marks detected in a reading station 19, one code word, namely the combination of the opaque area 16' and the transparent area 16", is set up so as to appear only one time extending over the whole length. Thus the evaluation circuit 14 can accurately and certainly detect the position of the trolley 4 on the combination of four reading signals sent from the reader 12.

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B66C 13/46

IPC 8 full level
G01B 21/00 (2006.01); **B66C 13/22** (2006.01); **B66C 13/46** (2006.01)

CPC (source: EP US)
B66C 13/46 (2013.01 - EP US)

Citation (search report)
• [Y] US 4385028 A 19830524 - SALAMAN ROY G
• [Y] GB 2126444 A 19840321 - ROSEMOUNT ENG CO LTD

Cited by
CN104555737A; EP2917982A2

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

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EP 0352565 A2 19900131; EP 0352565 A3 19911113; DE 3825097 A1 19900208; DE 3825097 C2 19920903; JP H02132096 A 19900521; US 5023434 A 19910611

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