

ABSTRACT

SUSPENDED LOAD STEADYING/POSITIONING CONTROL DEVICE

A suspended load steadying/positioning control device comprises independent drive devices 11, 14 for moving a crane 4 on two rails 1, the crane suspending a load by a rope 5 or the like and traveling on the rails 1 across them; position detectors 12, 15 for detecting the traveling position of the crane on each rail 1; speed detectors 13, 16 for detecting the traveling speed of the crane on each rail 1; a suspended load swing displacement detector 17; and an arithmetic means 21 for calculating, based on inputs, operation commands for the drive devices 11, 14 at two locations, the inputs being the measured values of the traveling positions at two locations by the position detectors 12, 15, the measured values of the speeds at two locations by the speed detectors 13, 16, and the measured value of the displacement of the suspended load by the suspended load swing displacement detector 17. Thus, the suspended load can be accurately positioned even in a crane having a structural deformation.

FIGURE 1