

Title (en)

Overload protection system for hydraulic boom cranes, especially of the type used on motor vehicles

Title (de)

Sicherheitsanlage für hydraulische Auslegerkräne, insbesondere für Motorfahrzeugkräne

Title (fr)

Système de protection contre la surcharge pour grues hydrauliques à flèche, spécialement celles montées sur des véhicules à moteur

Publication

EP 0708053 A1 19960424 (EN)

Application

EP 94113387 A 19940826

Priority

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Abstract (en)

A hydraulic boom crane is protected from excessive loading by means of pressure sensors (16, 17) sensing the pressure in the lifting cylinder (8) for the boom (4) and signalling to a control and alarm box (18) to emit periodic alarm signals through a LED array (20) and a buzzer (21), when the first sensor (16) senses e.g. 90% max. load, and to interrupt operation by switching the dump valve (12) to dump and to emit continuous alarm signals, when the second sensor (17) senses 100% max. load. The box (18) also comprises release means for temporarily (such as 5 seconds) overriding the second sensor, thus allowing the operator to steer the crane away from the critical operating condition. <IMAGE>

IPC 1-7

B66C 1/00; **B66C 23/90**

IPC 8 full level

B66C 23/90 (2006.01)

CPC (source: EP)

B66C 23/90 (2013.01); **B66C 23/905** (2013.01)

Citation (search report)

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