Title (en)

A SYSTEM AND A METHOD OF COUNTERACTING WIND INDUCED OSCILLATIONS IN A BRIDGE GIRDER

Title (de)

SYSTEM UND VERFAHREN ZUR KOMPENSIERUNG WINDINDUZIERTER SCHWINGUNGEN IN EINEM BRÜCKENTRÄGER

Title (fr)

SYSTEME ET PROCEDE POUR CONTRECARRER LES OSCILLATIONS INDUITES PAR LE VENT DANS UNE TRAVEE DE PONT

Publication

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Application

EP 93905216 A 19930217

Priority

- DK 20992 A 19920218
- DK 9300058 W 19930217

Abstract (en)

[origin: WO9316232A1] A system for counteracting wind induced oscillations in a bridge girder (11) on long cable supported bridges has a plurality of control faces (14, 15, 16, 17, 34, 35, 36) which are arranged substantially symmetrically about the longitudinal axis of the bridge. The control faces are adapted to utilize the energy of the wind in response to the movement of the bridge girder for reducing said movement. The control faces are divided into sections in the longitudinal direction of the bridge, and a plurality of detectors (19, 26) are provided for measuring the movements of the bridge girder. A local control unit (20, 25) associated with each control face section is adapted to control the control face section in response to information from one or more of said detectors. In a method according to the invention the control faces (14, 15, 16, 17, 34, 35, 36) are divided into sections in the longitudinal direction of the bridge, and a plurality of detectors (19, 26) measure the movements of the bridge girder, following which a local control unit (20, 25) associated with each control face section controls the control face section in question in response to information from one or more of said detectors.

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