

TO WHOM IT MAY CONCERN

PPC - Patent Portfolio

We offer intellectual property rights and technology transfer of embedded sensor solutions providing enhanced security for lives and loads in trucks, buses, cars, construction machines, etc.

EMBEDDED SENSOR SOLUTIONS

We want our embedded sensor solutions to be accessible and affordable for the millions.

1. We can prove that we have know-how to provide natural as well as man-made objects with embedded sensing & signaling solutions offering enhanced security for lives & goods.
2. Our business idea is to offer to whom it may concern ToT (Transfer of Technology). We offer IPR (Intellectual Property Rights) licenses focused on providing enhanced security for lives and loads in buses, cars, trucks and construction machines as well as for exhibited art, wearable mobile devices, mobile telephony base stations, etc.
3. Our background comprises heading R&D project EU235 within the Eureka programme, selling IPR & ToT for white goods applications and for narrow-band image communications, verifying the feasibility of providing trucks with enhanced security for lives & goods, etc.

PPC has developed and installed proximity warning sensors for protection of exhibited art in museums. When the first car from Saab was shown by the Modern Museum, one of our sensors provided an invisible protection.

SAAB - 1947



INSTALLATION

The invisible protection of the first car from Saab took less than 15 minutes to install at the Modern Museum. Using an application specific proximity sensor from PPC, it is possible to provide in the same way also even very large vehicles with invisible and proactive protection!

PPC offers your company a customized application specific proximity sensor which can provide also large vehicles with an invisible protection along its periphery, including added trailers. In order to avoid false alarms, the proximity reaction distance can be reduced into close proximity along the whole surface of the vehicles.

PPC looks forward to possible cooperation in exploring both civil and military applications.

An Application Specific Proximity Sensor

PPC offers an application specific proximity sensor making enhanced security for lives and loads possible in trucks, buses, cars, construction machines, etc. A trailer would be automatically protected by the very same sensor installation. Installation of the sensor is made very easy. An invisible antenna could be used in a prefabricated form or added below the vehicle which will become sensitive to proximity along the extension of its whole periphery.

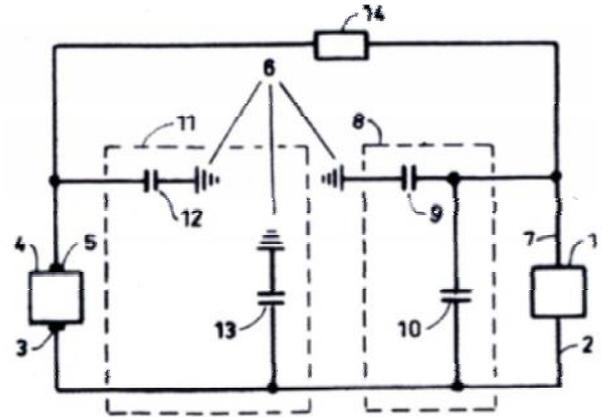


Fig. 1

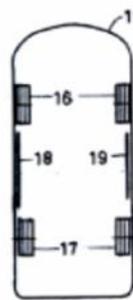


Fig. 2



Fig. 3

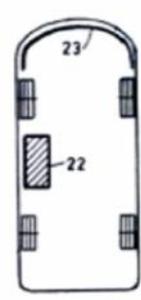


Fig. 4

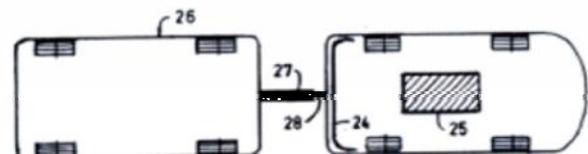


Fig. 5



RELIABLE AND INVISIBLE INSTALLATION

A wired connection from an invisibly installed antenna to a control unit can, as proposed by PPC, provide proximity sensing functionality along the whole periphery of even a big vehicle also when it is provided with a trailer.

Sensor enhanced safety and security.

BRIEF HISTORY

Carl R. Wern, a registered professional mechanical engineer in the State of Michigan, USA, started 1963 in Sweden a HVAC consulting company, Wern Inter AB, The company has provided various consulting engineering design services including automatic control design for projects in Sweden and also other countries in Europe, Asia, Africa & North America.

P-PHONE CONTROL AB (PPC)

Carl and George H. Wern founded 1992 PPC in a joint-venture agreement with Lars A. Wern. PPC is focused on proximity sensor R&D and offers patent and know-how license agreements. Proprietary sensing & signaling solutions make in many applications enhanced security for lives and goods possible as an embedded functionality.

PPC PATENT PORTFOLIO

Multi-Purpose Capacitive Sensor 1

1a Sweden	0900033-2	SE 533 658
1b. USA		2010082892
1c. WO		2012019264

Multi-Purpose Capacitive Sensor 2

2a Sweden	1000755-7	SE 535 106
2b Korea		2012005646
2c USA	8941391	2013162267
2d Brazil		112013000474
2e Russia		2013105499
2f WO		20137002398

Natural Disaster Alarm System

3a Sweden	1200481-8	SE 536 802
3b WO	2014025304	EPO13827116.8

Security Shields

4a Sweden		1050582-4
4b. EP		11792744.2
4c China	CN102934360A	201180028103.3
4d Brazil		1120120300547
4e India		10818/DELNP/2012
4f Korea		10-2012-7033734
4g Russia		2012157241
4h PCT	SE2011/050695	WO2011/155891

Safety Shields (5)

5a. Sweden		1050581-6
5b. EP		11792746.7
5c. China	CN102939718A	201180028102.9
5d. Brazil		1120120300474
5e. India		11215/DELNP/2012
5f. Korea		10-20127033735
5g. Russia		2012157294
5h. PCT	SE2011/050697	WO2011/155893

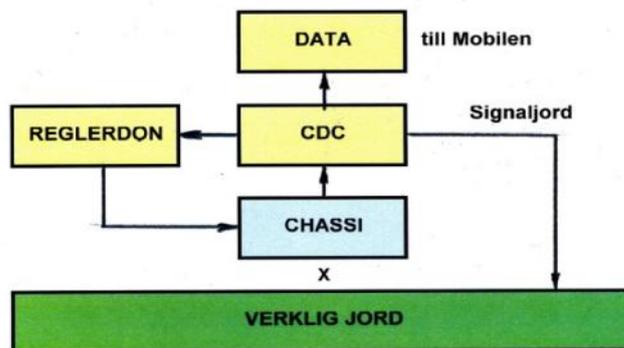
Electric Switch

6a USA		US7193833
6b Korea		009272390000

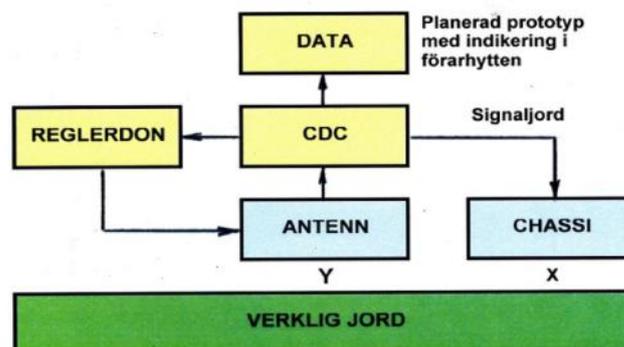
Television System

7a Sweden		SE070701290-9
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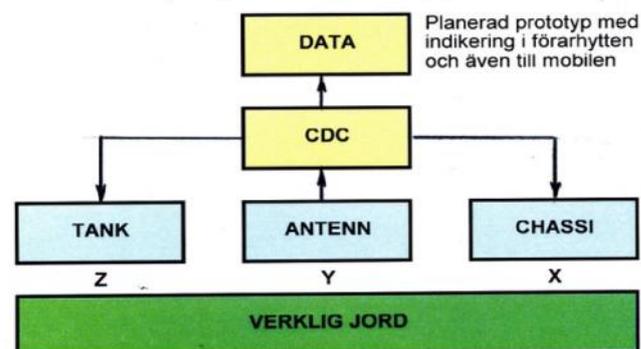
Embedded Sensor Solutions ESS 1 - intrångsvarning - fast jordreferens



Embedded Sensor Solutions ESS 2 - riskindikering - rörlig jordreferens



Embedded Sensor Solutions ESS 3 - intrångsvarning - rörlig jordreferens!



P-Phone Control AB, Stockholm

- Lars Wern is the original and first inventor of various embedded sensor solutions which have resulted in
1. a "Connected Tree" demonstrated successfully by Ericsson at International Fairs in Barcelona, Hannover and Las Vegas.
 2. a "robotized refrigerator" patented worldwide by Electrolux. Spin-off technology is offered by PPC.
 3. a "security shield" and a "safety shield" patented worldwide by Scania. PPC offers patent licenses.
 4. a large number of "close proximity shields" used by National Museum of Fine Arts, Modern Museum, etc.



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