

ASSIGNMENT OF U.S. PATENT APPLICATION

(Inventors) Satoshi Masuda
Rihito Kaneko
Satoshi Watanabe
Hiroto Tanaka
Kenji Senda
Norihito Hanai
Yasuhiro Yamasako

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) DENSO CORPORATION a corporation of Japan
(Address) 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan
(Assignee) TOYOTA JIDOSHA KABUSHIKI KAISHA a corporation of Japan
(Address) 1, Toyota-cho, Toyota-city, Aichi-pref., 471-8571 Japan

(Title) (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the invention, and all applications for patent and any Letters Patent which may be granted therefore, known as KNOCK DETERMINING DEVICE

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed on _____ or has already filed U.S. application Serial No. _____, on _____.

The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHUYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhuy P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date January 22, 2010 Signature of inventor

Satoshi Masuda
Satoshi Masuda

Date _____ Signature of inventor

Rihito Kaneko

Date _____ Signature of inventor

Satoshi Watanabe
PATENT

Case No. : _____
112276-UST-HM/nk

Date _____	Signature of inventor	_____
		Hiroto Tanaka
Date _____	Signature of inventor	_____
		Kenji Senda
Date _____	Signature of inventor	_____
		Norihito Hanai
Date _____	Signature of inventor	_____
		Yasuhiro Yamasako

Date <u>January 22, 2010</u>	Witnessed by: <u>Tomohiro Takizawa</u>
Date _____	Witnessed by: _____

ASSIGNMENT OF U.S. PATENT APPLICATION

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(Title) KNOCK DETERMINING DEVICE
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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date _____ Signature of inventor

Satoshi Masuda

Date January 28, 2010 Signature of inventor

Rihito Kaneko

Rihito Kaneko

Date January 28, 2010 Signature of inventor

Satoshi Watanabe

Satoshi Watanabe

PATENT

Date January, 29, 2010 Signature of inventor Hiroto Tanaka
Hiroto Tanaka

Date January, 29, 2010 Signature of inventor Kenji Senda
Kenji Senda

Date January, 29, 2010 Signature of inventor Norihito Hanai
Norihito Hanai

Date February 5, 2010 Signature of inventor Yasuhiro Yamasako
~~Yasuhiro~~ ^{2.5.10} Yasuhiro
Yasuhiro

Date _____ Witnessed by: _____

Date January, 28, 2010 Witnessed by: Hiroshi Watanabe

Date January, 28, 2010 Witnessed by: Hiroshi Watanabe

Date January, 29, 2010 Witnessed by: Hiroshi Watanabe

Date January, 29, 2010 Witnessed by: Hiroaki Watanabe

Date January, 29, 2010 Witnessed by: Hiroaki Watanabe

Date February, 5, 2010 Witnessed by: Kentaro Watanabe