

# **Utilizing Claims of Granted Patents**

### Masanobu UEDA Japan Patent Office

November 28, 2012





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# <u>Outlines</u>

- Points to consider in using claims of granted patents
  - Differences of claims
  - Differences of examination guidelines
- ➢Concept of the PPH



### Points to consider in using claims of granted patents

- Patent claims in each IP Office may be different as a result of the examination
  - >Inventive steps requirements
  - > Description requirements
  - Consideration of experiment results submitted afterward

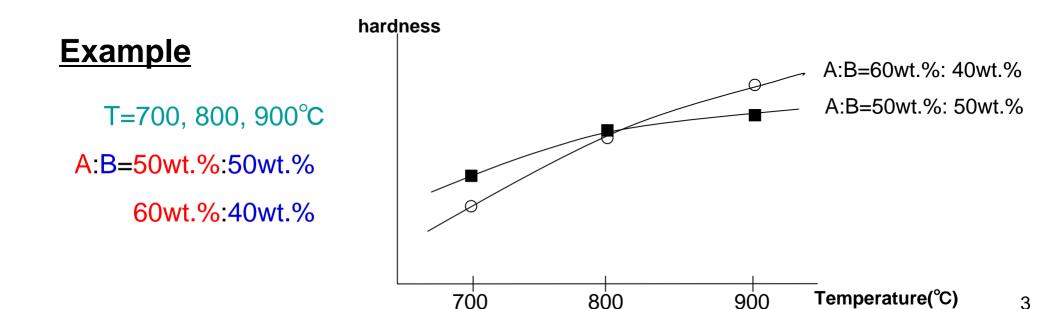


#### <u>Claim</u>

Alloy consisting of metal A 10-90wt.% and metal B 90-10wt.% hardened through heat treatment at 700 degree or higher.

#### **Description**

The ratio of metal A is 10-90 wt.%, preferably 30-90 wt.%, more preferably 50-90 wt.%.
adequate hardness

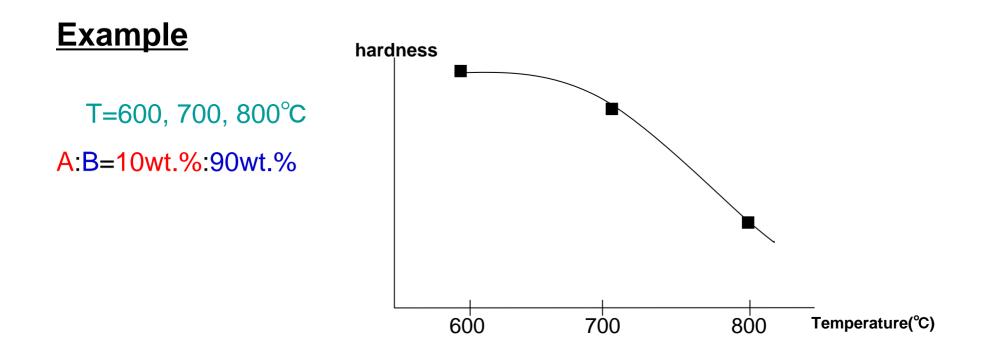




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#### **Description**

- Alloy consisting of metal A and metal B hardened through heat treatment at 800 degree or lower.
- > The ratio of metal A and metal B is arbitrary.
- > The hardness is favorably increased at 800 degree or lower.



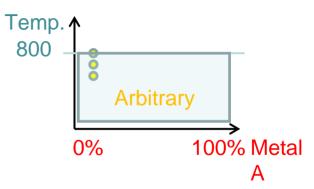


### **Present Application**

Alloy consisting of metal A 10-90wt.% and metal B 90-10wt.% hardened through heat treatment at 700 degree or higher Temp. 🛧 

### **Cited Document**

10% 90% Metal Alloy consisting of metal A and metal B hardened Α through heat treatment at 800 degree or lower



700

4. Each claim of granted patents of Patent Office A and Patent Office B

#### **Granted Claim of Patent Office A**

Alloy consisting of metal A <u>**30**</u>-90wt.% and metal B <u>**70**</u>-10wt.% hardened through heat treatment at <u>**800 degree or higher**</u>.

- The ratio of metal A is limited from 10-90wt.% to 30-90wt.% (The ratio of metal B is limited from 90-10wt.% to 70-10wt.%)
- The temperature is limited from 700 degree or higher. to 800 degree or higher.

#### **Granted Claim of Patent Office B**

Alloy consisting of metal A <u>50</u>-90wt.% and metal B <u>50</u>-10wt.% hardened through heat treatment at 700 degree or higher.

- The ratio of metal A is limited from 10-90wt.% to 50-90wt.% (The ratio of metal B is limited from 90-10wt.% to 50-10wt.%)
- The temperature is not limited.

Difference

- Range of the ratio of metal A and metal B
- Range of the temperature of heat treatment

Temp. ↑

700

700

10%

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90%

Metal

Α

90% Metal

30%





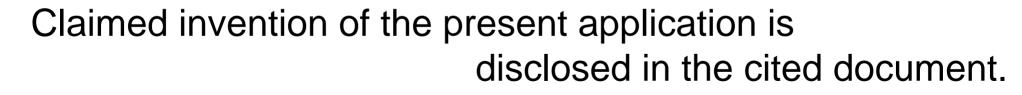
## ✓ Lack of Novelty

#### **Present Application**

Alloy consisting of metal A 10-90wt.% and metal B 90-10wt.% hardened through heat treatment at 700 degree or higher

#### **Disclosure of the cited document**

Alloy consisting of metal A 10wt.% and metal B 90wt.% hardened through heat treatment at 700 or 800 degree





## ✓ Lack of Inventive Step

#### **Present Application**

Alloy consisting of metal A 10-90wt.% and metal B 90-10wt.% hardened through heat treatment at 700 degree or higher

#### **Disclosure of the cited document**

- $\succ$  The ratio of metal A and metal B is arbitrary.
- > The hardness is favorably increased at 800 degree or lower.

A person skilled in the art would arbitrarily <u>arrange the ratio of metal A</u> and metal B and <u>arrange the temperature of the heat treatment **in the range of 800 degree or lower**, in order to make the alloy hard, easily arriving the present invention.</u>



#### **Amendment of the Claim**

Alloy consisting of <u>metal A 30-90wt.%</u> and <u>metal B 70-10wt.%</u> hardened through heat treatment at <u>800 degree or higher.</u>

#### Argument by the applicant

- The amended claimed invention is not specifically disclosed in the cited document any more.
- The cited document does not encourage a person skilled in the art to increase the temperature of the heat treatment to 800 degree or higher.
- The present invention has found that, in the specific range of the ratio of metal A and metal B, hardness of the alloy is increased when heated at 800 degree or higher.

### The amended claimed invention is novel and inventive.



✓ Lack of Novelty

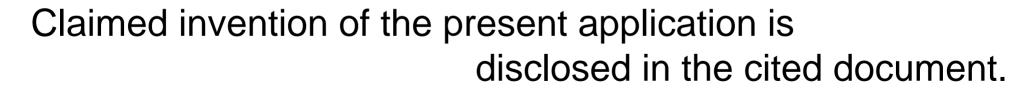
The same reason as that of Patent Office A

#### **Present Application**

Alloy consisting of metal A 10-90wt.% and metal B 90-10wt.% hardened through heat treatment at 700 degree or higher

#### **Disclosure of the cited document**

Alloy consisting of metal A 10wt.% and metal B 90wt.% hardened through heat treatment at 700 or 800 degree





## ✓ Lack of Inventive Step

#### **Present Application**

Alloy consisting of metal A 10-90wt.% and metal B 90-10wt.% hardened through heat treatment at 700 degree or higher

#### **Disclosure of the cited document**

- $\succ$  The ratio of metal A and metal B is arbitrary.
- > The hardness is favorably increased at 800 degree or lower.

The logic is different from that of Patent Office A.

A person skilled in the art would arbitrarily <u>arrange the ratio of metal</u> <u>A and metal B</u>. A person skilled in the art would also suitably <u>arrange</u> the temperature of the heat treatment **even beyond 800 degree** in the light of the common general technical knowledge that the alloy's hardness changes according to the composition of alloy or the temperature of heat treatment. So, the present claimed invention is easily arrived based on the disclosure of the cited document.

## ✓ Noncompliant of Support requirement

Common general technical knowledge:

The adequate temperature of the heat treatment depends on the composition of the alloy.

Fact described in the cited document:

In case of the alloy of metal A 10wt.% and metal B 90wt.%, hardness of the alloy lowers at higher than 700 degree.

Fact disclosed in the present application:

- The hardness is confirmed only when A: B= 50wt.%: 50wt.% and A: B= 60wt.%: 40wt.% by the experiment in the description.
  - It is not supported that hardness of the alloy is increased through heat treatment at 700 degree or higher in <u>all the</u> <u>range</u> of metal A: metal B= 10wt.%:90wt.% ~ 90wt.%:10wt.%



Not pointed out by Patent Office A



#### **Amendment of the Claim**

Alloy consisting of <u>metal A 50-90wt.%</u> and <u>metal B 50-10wt.%</u> hardened through heat treatment at 700 degree or higher.

#### Argument by the applicant

- The amended claimed invention is not specifically disclosed in the cited document any more.
- The cited document suggests that hardness of the alloy is decreased through heat treatment at higher than 700 degree.

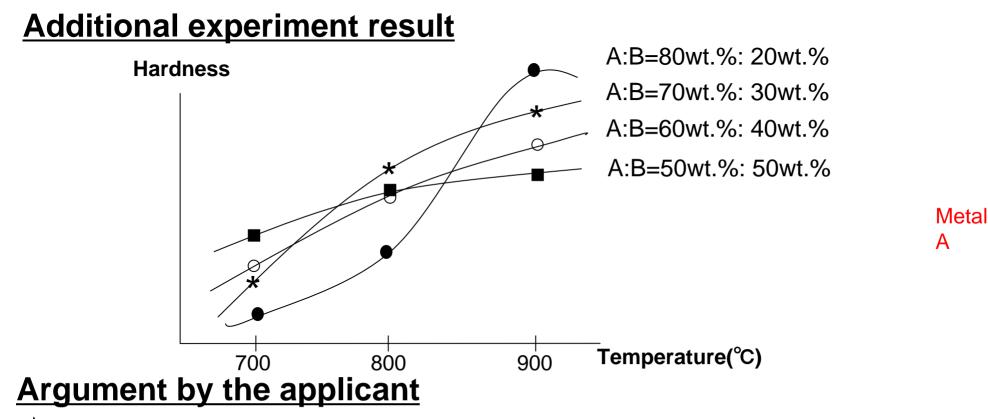
To the contrary, the present invention has found that, in the specific range of the ratio of metal A and metal B, hardness of the alloy is increased when heated at 800 degree or higher.

#### The amended claimed invention is novel and inventive.

11. Additional experiment result submitted by the applicant Difference 11. Additional experiment result submitted by the applicant

### **Description originally filed**

The ratio of metal A is 10-90 wt.%, preferably 30-90 wt.%, more preferably 50-90 wt.%.



Experiment result shows that hardness of the alloy is increased through heat treatment at 700 degree or higher in the range of the ratio of metal A 50-90 wt.% and metal B 50-10 wt.% as stated in the description originally filed.



#### Inventive steps

What temperature range and what ratio range are considered to involve inventive steps, considering the disclosure and the working examples?

- Suggestion in cited document
- Motivation
- Obstructive factor
- Unexpected results
- Description requirements

What temperature range and what ratio range are considered to be supported by the description?

- Disclosure by the description originally filed (especially Examples)
- Common general technical knowledge
- Experiment results submitted afterward

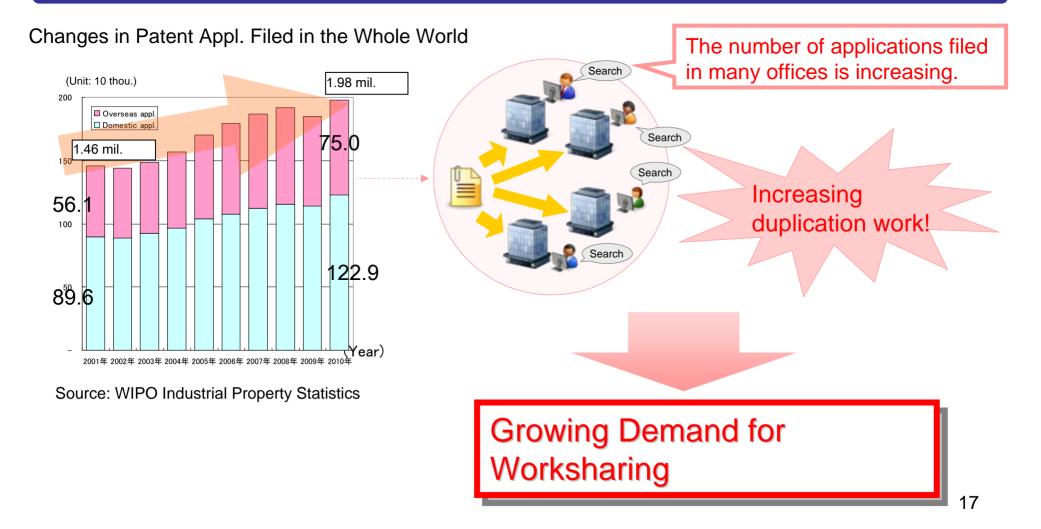


#### ✓ Background

✓ Current Situation of PPH Program



The number of patent applications in the world is increasing along with the globalization of business. In particular, the number of applications filed abroad is significantly increasing.



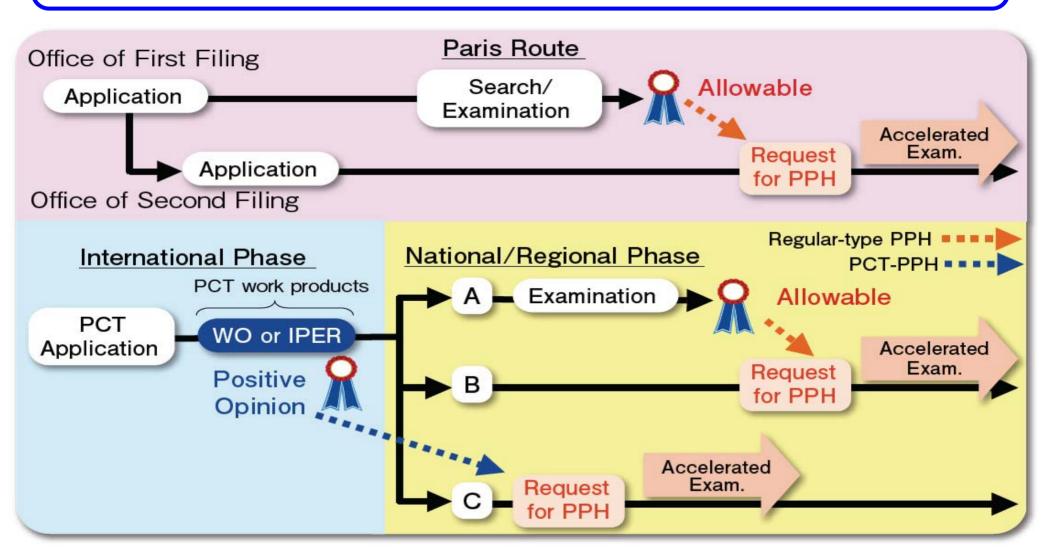




✓ Current Situation of PPH Program



➢ If a patent application has been determined to be patentable in the Office of First Filing (OFF), the corresponding application is qualified for accelerated examination in Offices of Second Filing (OSFs) with a simplified procedure.





As of the end of June, 2012

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      2       -       -       -         SG       0       2       -       -       -       -       -       -         FI       6       26       0       -       2(0)       -       -       &lt;</td><td>JP       5520       1395       24 (0)       100<br/>(3)       607       -       2         US       1783(44)       627       49 (1)       2422<br/>(60)       88       190<br/>(10)       7         KR       202       957       6       5       3       -       0         GB       71(5)       294       27       10<br/>(2)       0       -       7         CA       4(4)       152       1       0 (0)       0       -       0         DE       93       80       19       0       32       -       -         AU       -       153       -       -       -       -       -         DK       10       107       4       -       2       -       -       -         AU       -       153       -       -       -       -       -       -         AU       10       107       4       -       2       -</td><td>JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406           KR         202         957         6         5         3         -         0         -           GB         71(5)         294         27         10<br/>(2)         0         -         0         -           CA         4(4)         152         1         0(0)         0         -         0         -           DE         93         80         19         0         32         -         -         -           AU         -         153         -         -         -         -         -         -           AU         1017         4         -         2         -         -         -         -           AU         1017         4         -         2         -         -         -         -         -           FI         6         26         0         -         2(0)         -         0         -         -</td><td>JP         5520         1395         24 (0)         100<br/>(3)         607         - 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   SG         FI         RU           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)           KR         202         957         6         5         3         -         0         -         -         0 (0)         1           GB         71(5)         294         27         10<br/>(2)         0         -         <td< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -           GB         71(5)         294         27         10<br/>(2)         0         -         -         -         1 (0)         -         <td< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0         0           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -           GB         71(5)         294         27         10         0         -         -         -         -         10         0         -         -         -         100         -         <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES           JP         5520         1395         24 (0)         (0)         607         -         2         598         8         1 (0)         51(2)         0         0         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2           GB         71(5)         294         27         10         0         -         0         -         -         1         0         0         -         0         -         0         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10           US         1783(44)         627         49 (1)         2422         68         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -           GB         71(5)         294         27         10         0         -         0         -         -         10         0         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -         -         -         0         -         1         0         2         1         0         0         -         0         -         10         0         2         -         -         -         10         0         0         -         -         -         -         -         -         -         0         -         -         <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0           KR         202         957         6         5         3         -         0         -         1         0 (0)         1         -         -         2         -         -         -         0 (0)         1         -         -         2         -         -         -         0         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109           KR         202         957         6         5         3         -         0         -<!--</td--><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6           KR         202         957         6         5         3         -         0         -         -         0         1         -         2         -         -         -         0         0         -         0         0         1         0         0         -         -         -         0         -         -         0         -         -         -         0         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT       
 IL         TW         NO         CN           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253           US         1783(44)         627         49 (1)         2422         598         8         1 (0)         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         0         1         0         1         0         1         0</td></td></t<><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         0         0         46         0         253         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0           KR         202         957         6         5         3         -         0         -         -         2         -         -         3         -         0         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS         PH           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0         -</td></td></t<></td></td<></td></td<></td></td></t<></td> | JP         5520         1395         24 (0)           US         1783(44)         627         49 (1)           KR         202         957         6           GB         71(5)         294         27         6           GA         4(4)         152         1         0 (0)           DE         93         80         19         0           AU         -         153         -         -           DK         100         107         4         -           EP         117(55)         281         -         -           SG         0         2         -         -           RU         3         10         0         -           RU         3         10         0         -           HU         2         3         -         -           MX         0         1         -         -           MX         0         5 | JP       5520       1395       24 (0)       100<br>(3)         US       1783(44)       627       49 (1)       2422<br>(60)         KR       202       957       6       5         GB       71(5)       294       27       10<br>(2)         CA       4(4)       152       1       0 (0)         DE       93       80       19       0       32         AU       -       153       -       -       -         DK       100       107       4       -       2         EP       117(55)       281       -       -       -         SG       0       2       -       -       -         FI       6       26       0       -       2(0)         RU       3       10       0       -       -         FI       6       26       0       -       2(0)         RU       3       10       0       -       -         HU       2       3       -       -       -         HU       2       3       -       -       -         PT       0       1       - | JP       5520       1395       24 (0)       100<br>(3)       607         US       1783(44)       627       49 (1)       2422<br>(60)       88         KR       202       957       6       5       3         GB       71(5)       294       27       10<br>(2)       0         CA       4(4)       152       1       0 (0)       0         DE       93       80       19       0       32         AU       -       153       -       -       -         DK       100       107       4       -       2       -         EP       117(55)       281       -       -       -       -         SG       0       2       -       -       -       -         RU       3       10       0       -       -       -         RU       3       10       0       -       -       -         HU       2       3       -       -       -       -         HU       2       3       -       -       -       -         HU       2       3       -       -       - <t< td=""><td>JP       5520       1395       24 (0)       100<br/>(3)       607       -         US       1783(44)       627       49 (1)       2422<br/>(60)       888       190<br/>(10)         KR       202       957       6       5       3       -         GB       71(5)       294       27       10<br/>(2)       0       -         CA       4(4)       152       1       0 (0)       0       -         DE       93       80       19       0       32       -         AU       -       153       -       -       -       -         DK       10       107       4       -       2       -       -         AU       -       153       -       -       -       -       -         DK       10       107       4       -       2       -       -         BQ       3       10       0       -       2       -       -       -         SG       0       2       -       -       -       -       -       -         FI       6       26       0       -       2(0)       -       -       &lt;</td><td>JP       5520       1395       24 (0)       100<br/>(3)       607       -       2         US       1783(44)       627       49 (1)       2422<br/>(60)       88       190<br/>(10)       7         KR       202       957       6       5       3       -       0         GB       71(5)       294       27       10<br/>(2)       0       -       7         CA       4(4)       152       1       0 (0)       0       -       0         DE       93       80       19       0       32       -       -         AU       -       153       -       -       -       -       -         DK       10       107       4       -       2       -       -       -         AU       -       153       -       -       -       -       -       -         AU       10       107       4       -       2       -</td><td>JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406           KR         202         957         6         5         3         -         0         -           GB         71(5)         294         27         10<br/>(2)         0         -         0         -           CA         4(4)         152         1         0(0)         0         -         0         -           DE         93         80         19         0         32         -         -         -           AU         -         153         -         -         -         -         -         -           AU         1017         4         -         2         -         -         -         -           AU         1017         4         -         2         -         -         -         -         -           FI         6         26         0         -         2(0)         -         0         -         -</td><td>JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9           KR         202         957         6         5         3         -         0         -         -           GB         71(5)         294         27         10<br/>(2)         0         -         -         -         -           CA         4(4)         152         1         0(0)         0         -         0         -<!--</td--><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI           JP         5520         1395 
       24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)           KR         202         957         6         5         3         -         0         -         -         0 (0)           GB         71(5)         294         27         10         0         -         0         -         -         1 (0)           GB         71(5)         294         27         10         0         -         0         -         -         -         1 (0)           DE         93         80         19         0         32         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)           KR         202         957         6         5         3         -         0         -         -         0 (0)         1           GB         71(5)         294         27         10<br/>(2)         0         -         <td< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -           GB         71(5)         294         27         10<br/>(2)         0         -         -         -         1 (0)         -         <td< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0         0           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -           GB         71(5)         294         27         10         0         -         -         -         -         10         0         -         -         -         100         -         <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES           JP         5520         1395         24 (0)         (0)         607         -         2         598         8         1 (0)         51(2)         0         0         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2           GB         71(5)         294         27         10         0         -         0         -         -         1         0         0         -         0         -         0         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10           US         1783(44)         627         49 (1)         2422         68         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -           GB         71(5)         294         27         10         0         -         0         -         -         10         0         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -         -         -         0         -         1         0         2         1         0         0         -         0         -         10         0         2         -         -         -         10         0         0         -         -         -         -         -         -         -         0         -         -         <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0           KR         202         957         6         5         3         -         0         -         1         0 (0)         1         -         -         2         -         -         -         0 (0)         1         -         -         2         -         -         -         0         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109           KR         202         957         6         5         3         -         0         -<!--</td--><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO           JP         5520         1395     
   24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6           KR         202         957         6         5         3         -         0         -         -         0         1         -         2         -         -         -         0         0         -         0         0         1         0         0         -         -         -         0         -         -         0         -         -         -         0         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253           US         1783(44)         627         49 (1)         2422         598         8         1 (0)         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         0         1         0         1         0         1         0</td></td></t<><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         0         0         46         0         253         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0           KR         202         957         6         5         3         -         0         -         -         2         -         -         3         -         0         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS         PH           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0         -</td></td></t<></td></td<></td></td<></td></td></t<> | JP       5520       1395       24 (0)       100<br>(3)       607       -         US       1783(44)       627       49 (1)       2422<br>(60)       888       190<br>(10)         KR       202       957       6       5       3       -         GB       71(5)       294       27       10<br>(2)       0       -         CA       4(4)       152       1       0 (0)       0       -         DE       93       80       19       0       32       -         AU       -       153       -       -       -       -         DK       10       107       4       -       2       -       -         AU       -       153       -       -       -       -       -         DK       10       107       4       -       2       -       -         BQ       3       10       0       -       2       -       -       -         SG       0       2       -       -       -       -       -       -         FI       6       26       0       -       2(0)       -       -       < | JP       5520       1395       24 (0)       100<br>(3)       607       -       2         US       1783(44)       627       49 (1)       2422<br>(60)       88       190<br>(10)       7         KR       202       957       6       5       3       -       0         GB       71(5)       294       27       10<br>(2)       0       -       7         CA       4(4)       152       1       0 (0)       0       -       0         DE       93       80       19       0       32       -       -         AU       -       153       -       -       -       -       -         DK       10       107       4       -       2       -       -       -         AU       -       153       -       -       -       -       -       -         AU       10       107       4       -       2       - | JP         5520         1395         24 (0)         100<br>(3)         607         -         2         598           US         1783(44)         627         49 (1)         2422<br>(60)         88         190<br>(10)         7         406           KR         202         957         6         5         3         -         0         -           GB         71(5)         294         27         10<br>(2)         0         -         0         -           CA         4(4)         152         1         0(0)         0         -         0         -           DE         93         80         19         0         32         -         -         -           AU         -         153         -         -         -         -         -         -           AU         1017         4         -         2         -         -         -         -           AU         1017         4         -         2         -         -         -         -         -           FI         6         26         0         -         2(0)         -         0         -         - | JP         5520         1395         24 (0)         100<br>(3)         607         -         2         598         8           US         1783(44)         627         49 (1)         2422<br>(60)         88         190<br>(10)         7         406         9           KR         202         957         6         5         3         -         0         -         -           GB         71(5)         294         27         10<br>(2)         0         -         -         -         -           CA         4(4)         152         1         0(0)         0         -         0         - </td <td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)           KR         202         957         6         5         3         -         0         -         -         0 (0)           GB         71(5)         294         27         10         0         -         0         -         -         1 (0)           GB         71(5)         294         27         10         0         -         0         -         -         -         1 (0)           DE         93         80         19         0         32         -</td> <td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)           KR         202         957         6         5         3         -         0         -         -         0 (0)         1           GB         71(5)         294         27         10<br/>(2)         0         -         -         -         -        
-         <td< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -           GB         71(5)         294         27         10<br/>(2)         0         -         -         -         1 (0)         -         <td< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0         0           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -           GB         71(5)         294         27         10         0         -         -         -         -         10         0         -         -         -         100         -         <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES           JP         5520         1395         24 (0)         (0)         607         -         2         598         8         1 (0)         51(2)         0         0         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2           GB         71(5)         294         27         10         0         -         0         -         -         1         0         0         -         0         -         0         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10           US         1783(44)         627         49 (1)         2422         68         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -           GB         71(5)         294         27         10         0         -         0         -         -         10         0         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -         -         -         0         -         1         0         2         1         0         0         -         0         -         10         0         2         -         -         -         10         0         0         -         -         -         -         -         -         -         0         -         -         <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0           KR         202         957         6         5         3         -         0         -         1         0 (0)         1         -         -         2         -         -         -         0 (0)         1         -         -         2         -         -         -         0         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109           KR         202         957         6         5         3         -         0         -<!--</td--><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6           KR         202         957         6         5         3         -         0         -         -         0         1         -         2         -         -         -         0         0         -         0         0         1         0         0         -         -         -         0         -         -         0         -         -         -         0         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253           US         1783(44)         627         49 (1)         2422         598         8         1 (0)         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0       
 2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         0         1         0         1         0         1         0</td></td></t<><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         0         0         46         0         253         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0           KR         202         957         6         5         3         -         0         -         -         2         -         -         3         -         0         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS         PH           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0         -</td></td></t<></td></td<></td></td<></td> | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI           JP         5520         1395         24 (0)         100<br>(3)         607         -         2         598         8         1 (0)           US         1783(44)         627         49 (1)         2422<br>(60)         88         190<br>(10)         7         406         9         2 (0)           KR         202         957         6         5         3         -         0         -         -         0 (0)           GB         71(5)         294         27         10         0         -         0         -         -         1 (0)           GB         71(5)         294         27         10         0         -         0         -         -         -         1 (0)           DE         93         80         19         0         32         - | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU           JP         5520         1395         24 (0)         100<br>(3)         607         -         2         598         8         1 (0)         51(2)           US         1783(44)         627         49 (1)         2422<br>(60)         88         190<br>(10)         7         406         9         2 (0)         36(1)           KR         202         957         6         5         3         -         0         -         -         0 (0)         1           GB         71(5)         294         27         10<br>(2)         0         - <td< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -           GB         71(5)         294         27         10<br/>(2)         0         -         -         -         1 (0)         -         <td< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0         0           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -           GB         71(5)         294         27         10         0         -         -         -         -         10         0         -         -         -         100         -         <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES           JP         5520         1395         24 (0)         (0)         607         -         2         598         8         1 (0)         51(2)         0         0         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2           GB         71(5)         294         27         10         0         -         0         -         -         1         0         0         -         0         -         0         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10           US         1783(44)         627         49 (1)         2422         68         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -           GB         71(5)         294         27         10         0         -         0         -         -         10         0         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -         -         -         0         -         1         0         2         1         0         0         -         0         -         10        
0         2         -         -         -         10         0         0         -         -         -         -         -         -         -         0         -         -         <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0           KR         202         957         6         5         3         -         0         -         1         0 (0)         1         -         -         2         -         -         -         0 (0)         1         -         -         2         -         -         -         0         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109           KR         202         957         6         5         3         -         0         -<!--</td--><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6           KR         202         957         6         5         3         -         0         -         -         0         1         -         2         -         -         -         0         0         -         0         0         1         0         0         -         -         -         0         -         -         0         -         -         -         0         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253           US         1783(44)         627         49 (1)         2422         598         8         1 (0)         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         0         1         0         1         0         1         0</td></td></t<><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         0         0         46         0         253         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0           KR         202         957         6         5         3         -         0         -         -         2         -         -         3         -         0         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS         PH           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0         -</td></td></t<></td></td<></td></td<> | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT           JP         5520         1395         24 (0)         100<br>(3)         607         -         2         598         8         1 (0)         51(2)         0           US         1783(44)         627         49 (1)         2422         88         190<br>(10)         7         406         9         2 (0)         36(1)         0           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -           GB         71(5)         294         27         10<br>(2)         0         -         -         -         1 (0)         - <td< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0         0           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -           GB         71(5)         294         27         10         0         -         -         -         -         10         0         -         -         -         100         -         <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES           JP         5520         1395         24 (0)         (0)         607         -         2         598         8         1 (0)         51(2)         0         0         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2           GB         71(5)         294         27         10         0         -         0         -         -         1         0         0         -         0         -         -         -         -         -         -         -         -         -         -         -         -         -
        -         -         -         -         -         -         -         0         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10           US         1783(44)         627         49 (1)         2422         68         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -           GB         71(5)         294         27         10         0         -         0         -         -         10         0         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -         -         -         0         -         1         0         2         1         0         0         -         0         -         10         0         2         -         -         -         10         0         0         -         -         -         -         -         -         -         0         -         -         <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0           KR         202         957         6         5         3         -         0         -         1         0 (0)         1         -         -         2         -         -         -         0 (0)         1         -         -         2         -         -         -         0         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109           KR         202         957         6         5         3         -         0         -<!--</td--><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6           KR         202         957         6         5         3         -         0         -         -         0         1         -         2         -         -         -         0         0         -         0         0         1         0         0         -         -         -         0         -         -         0         -         -         -         0         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253           US         1783(44)         627         49 (1)         2422         598         8         1 (0)         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         0         1         0         1         0         1         0</td></td></t<><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         0         0         46         0         253         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0           KR         202         957         6         5         3         -         0         -         -         2         -         -         3         -         0         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS         PH           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0         -</td></td></t<></td></td<> | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU           JP         5520         1395         24 (0)         100<br>(3)         607         -         2         598         8         1 (0)         51(2)         0         0           US         1783(44)         627         49 (1)         2422<br>(60)         88         190<br>(10)         7         406         9         2 (0)         36(1)         0         2           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -           GB         71(5)         294         27         10         0         -         -         -         -         10         0         -         -         -         100         - <t<
td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES           JP         5520         1395         24 (0)         (0)         607         -         2         598         8         1 (0)         51(2)         0         0         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2           GB         71(5)         294         27         10         0         -         0         -         -         1         0         0         -         0         -         0         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX           JP         5520         1395         24 (0)         100<br/>(3)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10           US         1783(44)         627         49 (1)         2422         68         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -           GB         71(5)         294         27         10         0         -         0         -         -         10         0         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -         -         -         0         -         1         0         2         1         0         0         -         0         -         10         0         2         -         -         -         10         0         0         -         -         -         -         -         -         -         0         -         -         <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0           KR         202         957         6         5         3         -         0         -         1         0 (0)         1         -         -         2         -         -         -         0 (0)         1         -         -         2         -         -         -         0         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109           KR         202         957         6         5         3         -         0         -<!--</td--><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6           KR         202         957         6         5         3         -         0         -         -         0         1         -         2         -         -         -         0         0         -         0         0         1         0         0         -         -         -         0         -         -         0         -         -         -         0         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253           US         1783(44)         627         49 (1)         2422         598         8         1 (0)         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         0         1         0         1         0         1         0</td></td></t<><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         0         0         46         0         253         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0           KR         202         957         6         5         3         -         0         -         -         2         -         -         3         -         0         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS         PH           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0         -</td></td></t<> | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI        
RU         AT         HU         ES           JP         5520         1395         24 (0)         (0)         607         -         2         598         8         1 (0)         51(2)         0         0         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2           GB         71(5)         294         27         10         0         -         0         -         -         1         0         0         -         0         -         0         0 | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX           JP         5520         1395         24 (0)         100<br>(3)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10           US         1783(44)         627         49 (1)         2422         68         190<br>(10)         7         406         9         2 (0)         36(1)         0         2         1         49           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -           GB         71(5)         294         27         10         0         -         0         -         -         10         0         -         0 | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -           KR         202         957         6         5         3         -         0         -         -         0 (0)         1         -         -         2         -         -         -         0         -         1         0         2         1         0         0         -         0         -         10         0         2         -         -         -         10         0         0         -         -         -         -         -         -         -         0         -         - <t< td=""><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0           KR         202         957         6         5         3         -         0         -         1         0 (0)         1         -         -         2         -         -         -         0 (0)         1         -         -         2         -         -         -         0         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         0</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46           US         1783(44)         627         49 (1)         2422<br/>(60)         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109           KR         202         957         6         5         3         -         0         -<!--</td--><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6           KR         202         957         6         5         3         -         0         -         -         0         1         -         2         -         -         -         0         0         -         0         0         1         0         0         -         -         -         0         -         -         0         -         -         -         0         -         -         -</td><td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253           US         1783(44)         627         49 (1)         2422         598         8         1 (0)         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         0         1         0         1         0         1         0</td></td></t<> <td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         0         0         46         0         253         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0           KR         202         957         6         5         3         -         0         -         -         2         -         -         3         -         0         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -</td> <td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS         PH           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0         -</td> | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL           JP         5520         1395         24 (0)         100         607         -     
   2         598         8         1 (0)         51(2)         0         0         0         10         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0           KR         202         957         6         5         3         -         0         -         1         0 (0)         1         -         -         2         -         -         -         0 (0)         1         -         -         2         -         -         -         0         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         0 | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW           JP         5520         1395         24 (0)         100<br>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46           US         1783(44)         627         49 (1)         2422<br>(60)         88         190<br>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109           KR         202         957         6         5         3         -         0         - </td <td>JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO           JP         5520         1395         24 (0)         100<br/>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0           US         1783(44)         627         49 (1)         2422         88         190<br/>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         - 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        0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         0         1         0         1         0         1         0</td> | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO           JP         5520         1395         24 (0)         100<br>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0           US         1783(44)         627         49 (1)         2422         88         190<br>(10)         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6           KR         202         957         6         5         3         -         0         -         -         0         1         -         2         -         -         -         0         0         -         0         0         1         0         0         -         -         -         0         -         -         0         -         -         -         0         -         -         - | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN           JP         5520         1395         24 (0)         100<br>(60)         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253           US         1783(44)         627         49 (1)         2422         598         8         1 (0)         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         49         -         0         109         6         210           KR         202         957         6         5         3         0         -         -         1         0         2         1         0         1         0         1         0         1         0 | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         0         0         46         0         253         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0           KR         202         957         6         5         3         -         0         -         -         2         -         -         3         -         0         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - | JP         US         KR         GB         CA         DE         AU         DK         EP         SG         FI         RU         AT         HU         ES         MX         PT         IL         TW         NO         CN         IS         PH           JP         5520         1395         24 (0)         100         607         -         2         598         8         1 (0)         51(2)         0         0         0         10         0         0         46         0         253         0         0           US         1783(44)         627         49 (1)         2422         88         190         7         406         9         2 (0)         36(1)         0         2         1         49         -         0         109         6         210         0         - |

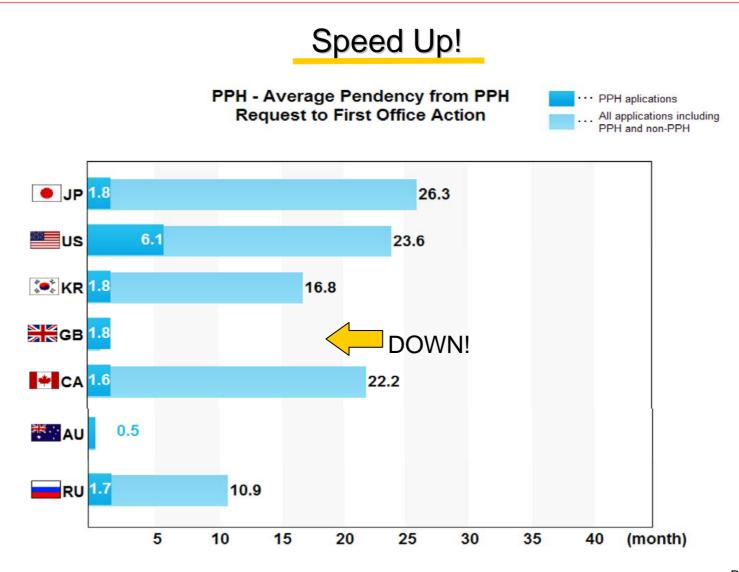


#### As of the end of June, 2012

		Office of Filing																		
ISA/IPEA		JP	US	KR	CA	AU	DK	EP	FI	RU	AT	ES	MX	PT	SE	NO	CN	IS	PH	Total
	JP	1184	754	-	-	-	0	283	0	-	-	1	2	0	5	0	62	0	1	2292
	US	19	198	15	I	7	0	25	0	6	0	0	-	I	0	0	4	0	-	274
	KR	-	1469	41	I	-	-	-	-	-	I	-	-	-	-	-	84	-	-	1594
	CA	-	-	-	48	-	I	-	I	-	I	I	-	I	-	-	-	-	-	48
	AU	-	149	-	I	7	-	-	I	-	I	I	-	I	-	-	-	I	-	156
	EP	428	1171	-	-	-	-	-	-	-	I	-	-	-	-	-	-	I	-	1599
	FI		36	-	I	-	I	-	I	0	0	0	-	I	-	-	-	I	-	36
	RU	-	11	-	I	-	0	-	0	-	I	0	-	I	-	-	-	I	-	11
	AT		10	-	I	-	-	-	0	-	I	-	-	-	-	-	-	-	-	10
	ES	2	6	-	I	-	I	-	0	0	I	I	0	0	-	-	-	-	-	8
	SE	8	42	-	I	-	-	-	-	-	I	-	-	-	1	-	-	-	-	51
	XN	3	34	-	I	-	-	-	1	-	I	1	-	1	-	-	-	I	-	37
	CN	7	35	1	I	-	-	-	I	-	I	I	-	I	-	-	-	I	-	43
	Total	1651	3915	57	48	14	0	308	0	6	0	1	2	0	6	0	150	0	1	6159



PPH meets not only office satisfaction but also user satisfaction!

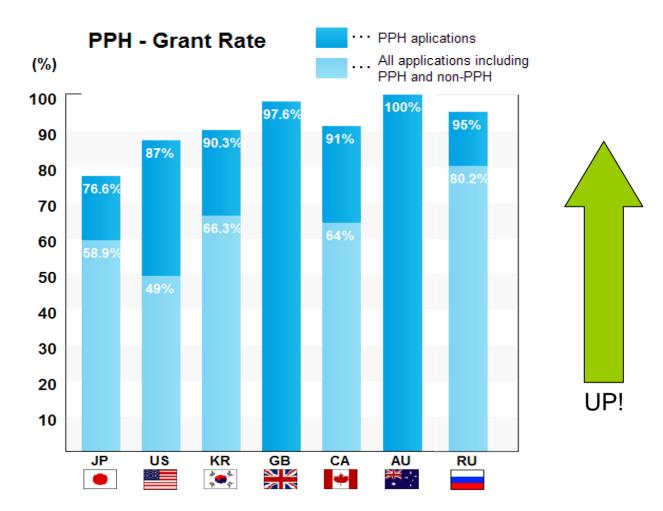


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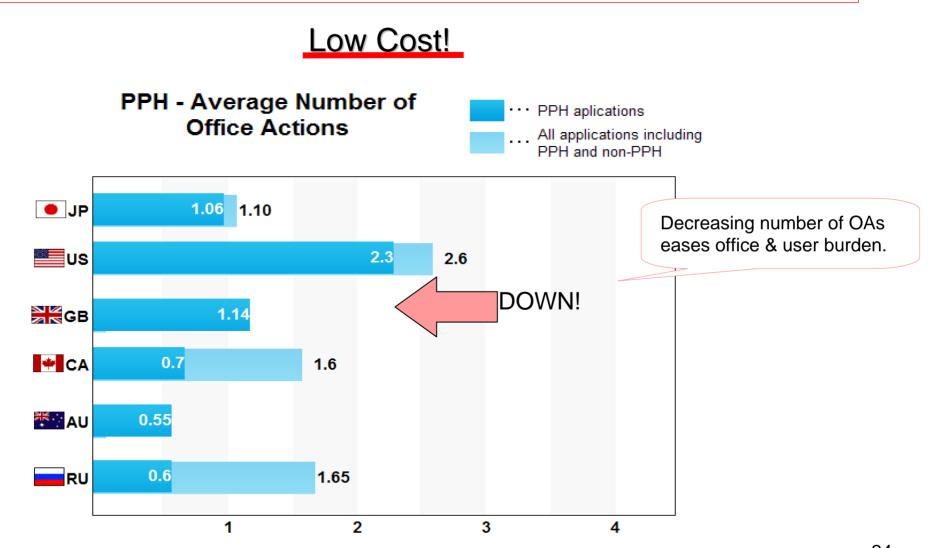
PPH meets not only office satisfaction but also user satisfaction!

#### Increase in Grant Rate!



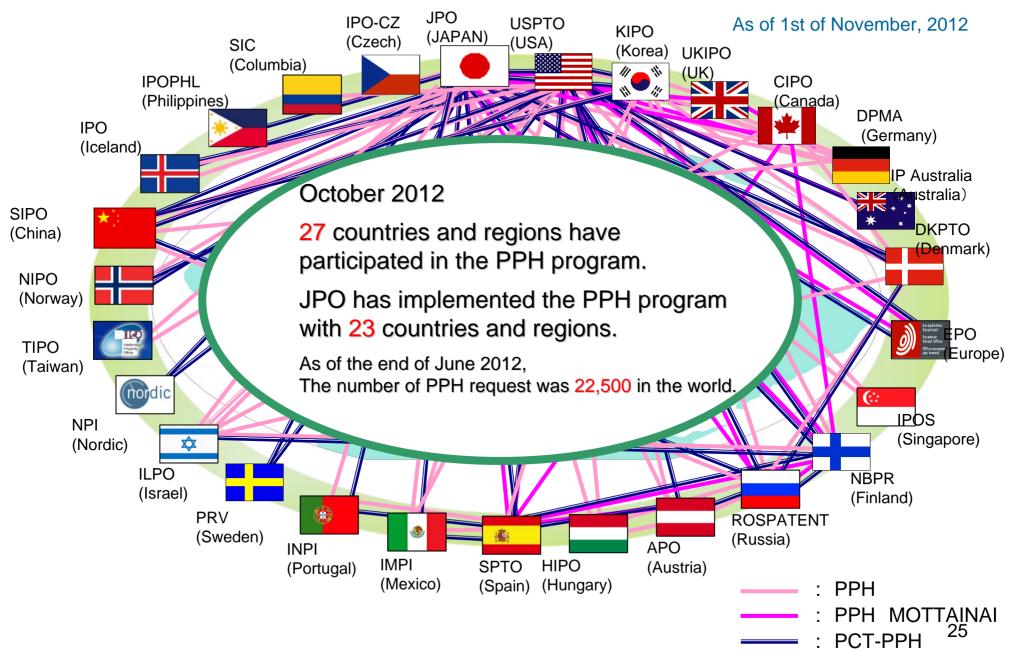


PPH meets not only office satisfaction but also user satisfaction!



#### **Expanding PPH Network**







#### > JPO website

(In Japanese) <u>http://www.jpo.go.jp/cgi/link.cgi?url=/torikumi/t\_toriku</u> <u>mi/patent\_highway.htm</u>

(In English) <u>http://www.jpo.go.jp/cgi/link.cgi?url=/torikumi\_e/t\_tori</u> <u>kumi\_e/patent\_highway\_e.htm</u>

> USPTO website

http://www.uspto.gov/patents/init\_events/pph/index.jsp



## Thank you for your kind attention!

