



Using Patent Information to Promote R&D and Job Creation in Rwanda

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The Patent System

- Has **two functions**:

- **Protection:** Protection is territorial (by country or region) and time-limited (max. 20 years)

- **Disclosure/Publication:** Publication of technical information is global (not bound by territory nor time)

- Rwandans can access patent information disclosed ANYWHERE in the world to promote R&D and job creation in Rwanda

Promotion of R&D: Example of Illumination



- Example of agriculture tools



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Example of cellphones

-Cellphones used around 1970



-Cellphones used around 1990



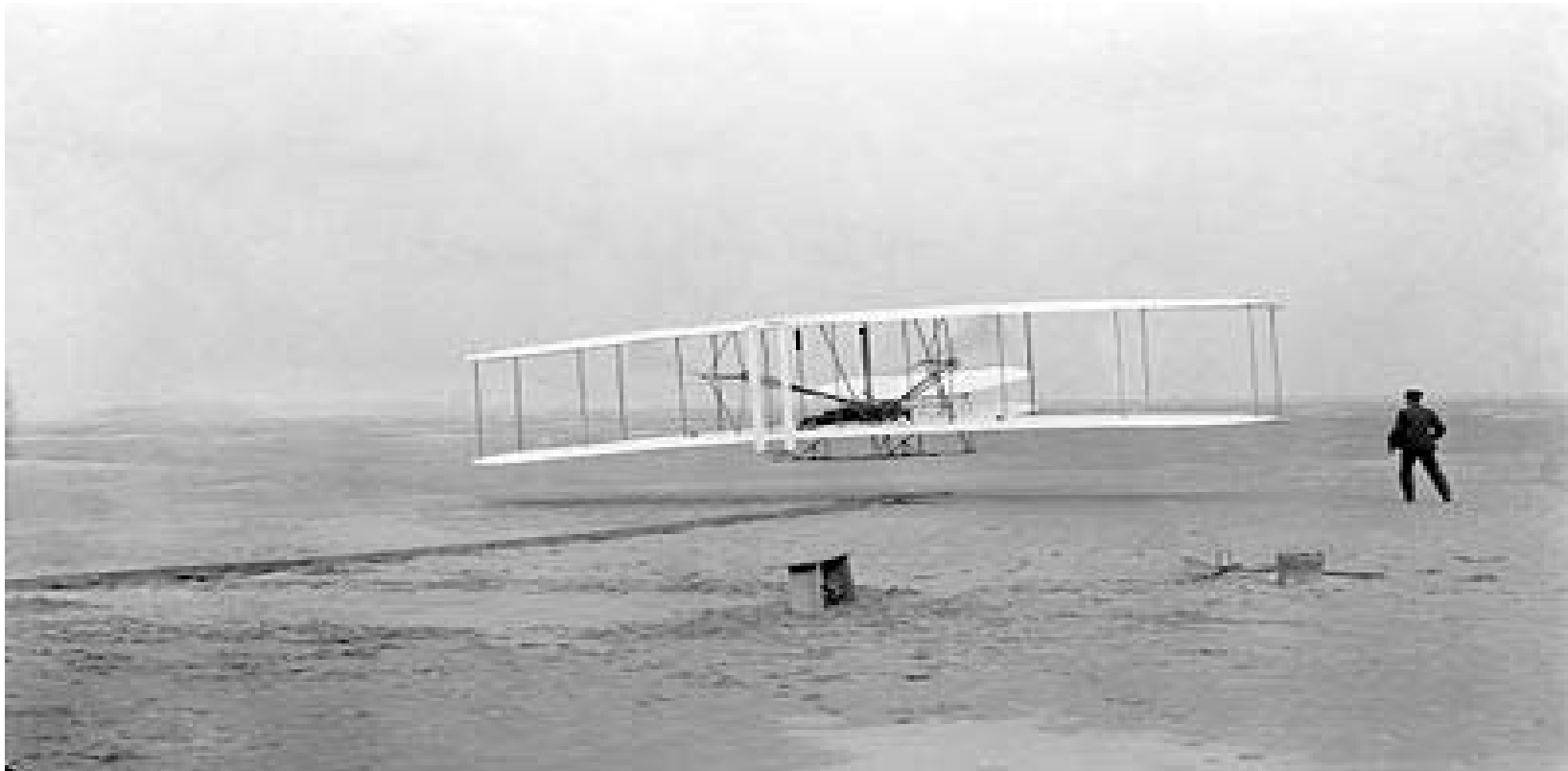
-iPhone: modern and sophisticated cell



PCT publication WO 2006/020305 “*Gestures for Touch-Sensitive Input Devices*”; Apple iPhone, released in January 2007

iPhone comprises not only a telephone function, but also internet connection, video, camera, music, etc. And this did not exist in previous cell phones!

Example of airplanes: Flyer, Wright brothers' first aircraft (December 1903)



Spirit of Saint-Louis (Airplane of Charles Lindbergh, 1927: 33 hours and 30 minutes from New York to Paris)

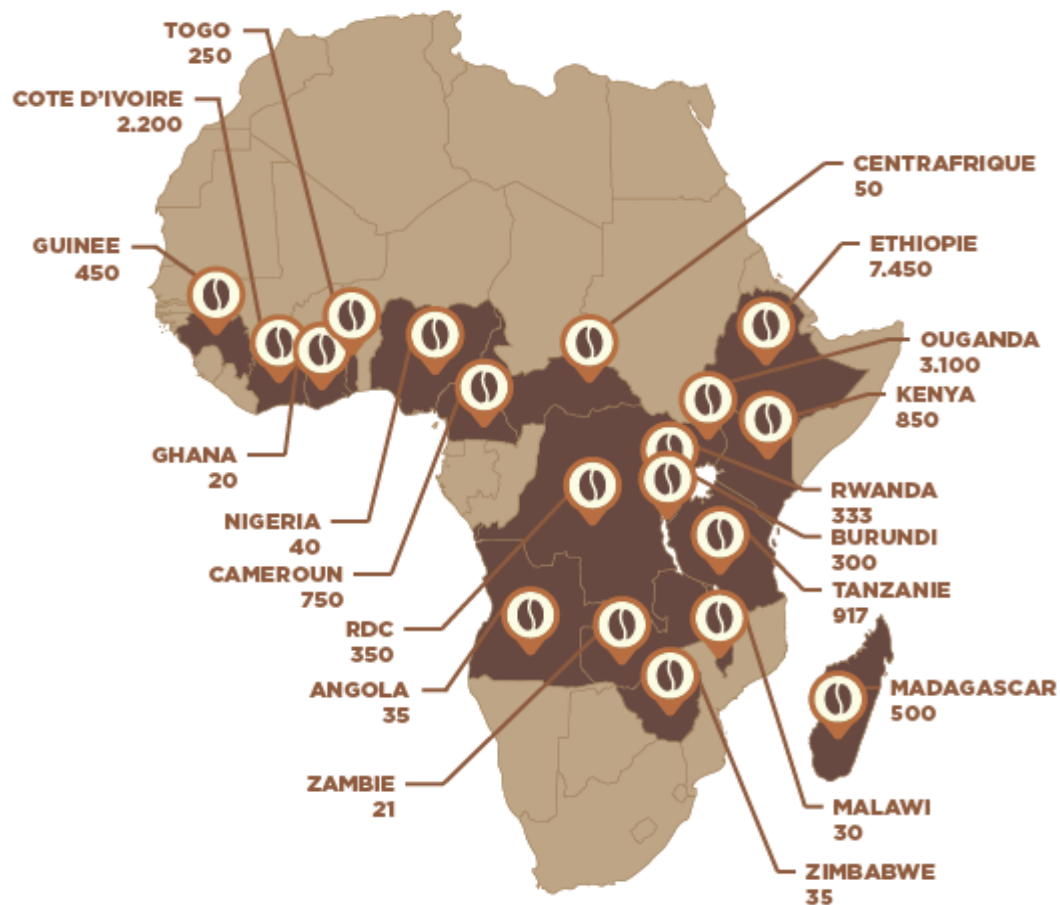


Airbus A380 (first take-off in April 2005, 7 hours from Paris to New York)



Example in the Coffee Field

PRODUCTION ANNUELLE DE CAFÉ 2010 EN MILLIERS DE SACS



 PAYS PRODUCTEUR
 PAYS NON PRODUCTEUR

 NOM DU PAYS
000 : MILLIERS DE SACS

Interesting Facts About Coffee

- Coffee is the world's *second most popular drink* after water (it is consumed at the rate of 1.4 billion cups *per day*)
- Coffee is the *second most traded product* in the world after oil (it is worth 100 billion U\$ *per year* worldwide of which 39 billion to the producing countries)
- A coffee tree has a lifespan of about *50 to 70 years*
- *Americans are the world's leading coffee consumer (450 million cups per day or more than 150 billion cups a year; an estimated four out of five Americans start their day with a coffee)*
- Besides Americans, the French and the Germans are the two largest drinkers. These *three countries* drink approximately 65% of the total coffee consumed in the world
- In the United States, September 29 is celebrated as National Coffee Day. In Costa Rica, it's September 12, in Japan, it's October 1, in Ireland, it is September 19
- Therefore, coffee offers a tremendous business opportunity for a producing country like Rwanda

Technical Information on Coffee

- *In the coffee field, Rwandans will find in the PATENTSCOPE 5,737 technical information (patent documents) dealing with coffee in general, 815 on coffee machines, 48 on coffee brewing, 38 on coffee milling, 31 on coffee flavor, 24 on coffee roasting, 5 on coffee processing*
- *Rwandans can learn from these solutions to maximize and optimize their productions (they can innovate and therefore file patents)*

The advertisement is divided into two main sections. The top section, with a yellow background, features a white 'COLOR SORTER' machine. To its right, the word 'Coffee' is written in a stylized font, followed by six small images of coffee beans. The bottom section, with a light green background, features a blue and white 'SHELL MINDER' machine. To its right, the word 'Tea' is written in a stylized font, followed by six small images of tea leaves and a wooden scoop filled with tea. In the center of the advertisement, the text 'innovate and create' and 'maximize and optimize' is written in a small font, followed by 'Solution Productivity' in a larger, bold font.

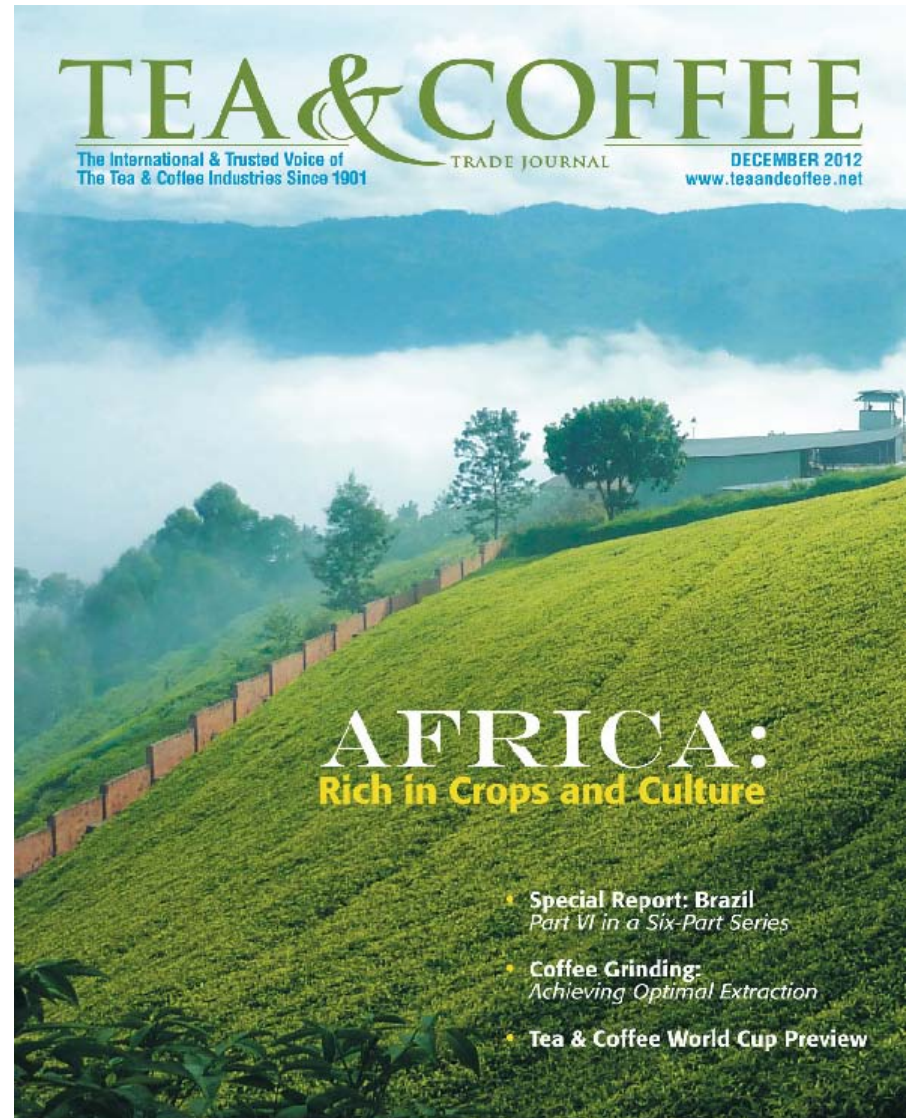
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tel: +82 (54) 979-2228, fax: +92 (54) 973-2230
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www.daewon.com

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INTELLECTUELLE

Cont'd: Tea & Coffee Journal

- The Tea & Coffee Trade Journal (hereby attached) gives information notably on the ideal technology on roasting, grinding, brewing, and milling particularly coffee
- The Journal also informs on activities of coffee industry around the world, such as the Tea & Coffee World Cup, where exhibitions and workshops highlight latest trends in coffee roasting and tea packing equipment, importing, exporting, brewing, retailing and marketing
- The online version of the Journal can be accessed free of charge at: <http://www.teaandcoffee.net/> , and its archives since 2000 are available at: (<http://www.teaandcoffee.net/archives/>)



Tea & Coffee World Cup (Exhibitions & Symposiums), Vienna, Austria, March 25 – 27, 2012



Cont'd - Tea & Coffee World Cup



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- The TISC in Rwanda could select local coffee producers in order to participate in the Tea & Coffee World Cup where more than 2500 visitors from over 80 countries will be exposed to their products and services. This is a networking opportunities with diverse industry associates including coffee roasters, tea packers, distributors, importers, exporters and specialty retailers. More than 85% of the attendees are decision makers. For further information, the TISC could write to:

Tea & Coffee World Cup Exhibitions & Symposiums

26 Broadway, Floor 9M

New York, NY 10004

USA

Tel. : +1 212 391 2060

Fax: +1 212 827 0945

E-mail: info@tcworldcup.com

- The last event took place in Warsaw, Poland, from February 11 – 13, 2014, at the Warszawskie Centrum EXPO XXI Sp. Z 0.0.

- R&D is the **engine** that drives the economy of a country; a major generator of employments (therefore it should be **encouraged** by the national IP Policy)
- R&D is the space between a technical **problem** and a **solution** in **a society**, therefore, crucial for economic, technological, social, and cultural advancement (therefore, technical **problems** and **real needs** of that society in that respect should be **clearly and fully identified**)
- R&D is generally built upon a prior technical solution which it develops or transforms (therefore, it requires **important** mobilization of **human and financial resources**)

Other Use of Patent Information for Job Creation

■ Based upon Bibliographic Data (1st page of a patent document where there are contact details of inventor, patent attorney/patent agent, companies, class of invention) one can create jobs through:

■ **Merger**

■ **Acquisition**

■ **License or Technology Transfer**

■ **Parallel importation (Import&Export; see also patent families/national phase)**

Where can Patent Information be found?

In Patent databases (free-of-charge and commercial)
(please refer to examples on next slides)

Example of free patent databases: International, Regional, National

- PATENTSCOPE
(WIPO)
- ESPACENET (EPO)
- JPO IPDL
- USPTO PatFT/AppFT

(cont'd)

■ Korean IP Office (KIPO)



■ China Patent Office



■ Taiwan IP Office (TIPO)



■ ARIPO



■ OAPI



Example of commercial databases

- *More than 200* are listed on the web-site of the Patent Information Users Group (PIUG) at <http://www.piug.org/vendors.php>
- On 17 September 2010, WIPO launched the ASPI Program (*Access to Specialized Patent Information for Developing Countries*) with 6 private database providers (refer to next slide)
 - Eligibility criteria:
 - For Rwanda: Access free of charge (see Group 1)

ASPI Partners of WIPO

■ LexisNexis (TotalPatent)



■ Minesoft (Patbase)



■ ProQuest (**WITHDRAWN**)



■ Questel (Orbit.com)



■ Thomson Reuters (Thomson Innovation)



■ World Intellectual Property Search (WIPS Global)



Conclusion

- R&D is a big “machine” for job creation
- R&D is the **ENGINE** that shifts a society from the lowest rank to the highest level of technological, economic and social development!
- R&D **NOT** to be reduced to mere publication of papers; R&D must bring articles or goods to market
- If a country does not have many means for R&D, then it can use other ways of making business such as merger, licensing, technology transfer, parallel importation, import & export)
- Rwanda **CAN** of course do it, and is currently doing all its best to get there soon!

Thank you for your attention!

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