# INTRODUCTION TO THE PATENT SYSTEM – CHALLENGES FACING SMALL OFFICES

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WORLD INTELLECTUAL PROPERTY ORGANIZATION (WIPO) REGIONAL SEMINAR ON THE PATENT COOPERATION TREATY (PCT) FOR SELECTED AFRICAN COUNTRIES, GABORONE, BOTSWANA, SEPTEMBER 10, 2019.

## A BRIEF HISTORY

□500 BCE - THE FIRST REFERENCE TO IP PROTECTION IN HISTORY

✓ CHEFS IN THE GREEK COLONY OF SYBARIS IN THE SOUTH OF ITALY WERE GIVEN A YEAR TO ENJOY MONOPOLIZED PROFIT FOR A UNIQUE CULINARY DISH THAT THEY HAD CREATED.

□270 - 180 BCE - VITRUVIUS, WHO SERVED AS A JUDGE IN A LITERAY CONTEST IN THE CITY OF ALEXANDRIA, EGYPT, EXPOSED AND TRIED SEVERAL POETS WHO WERE GUILTY OF STEALING THE MATERIAL OF OTHERS IN THEIR FIELD

✓ MARCUS VITRUVIUS POLLIO WAS A ROMAN AUTHOR, ARCHITECT, CIVIL ENGINEER AND MILITARY ENGINEER DURING THE 1ST CENTURY BC, KNOWN FOR HIS MULTI-VOLUME WORK ENTITLED DE ARCHITECTURA.

- √ THIS MARKED THE BIRTH OF COPYRIGHT LAW AS WE KNOW IT.
- ✓ FROM THEN ON, ROMAN JURISTS DISCUSSED DIFFERENT TYPES OF OWNERSHIP FOR INTELLECTUAL WORKS, ALTHOUGH THEY STILL DID NOT HAVE ANY INTELLECTUAL PROPERTY LAWS.



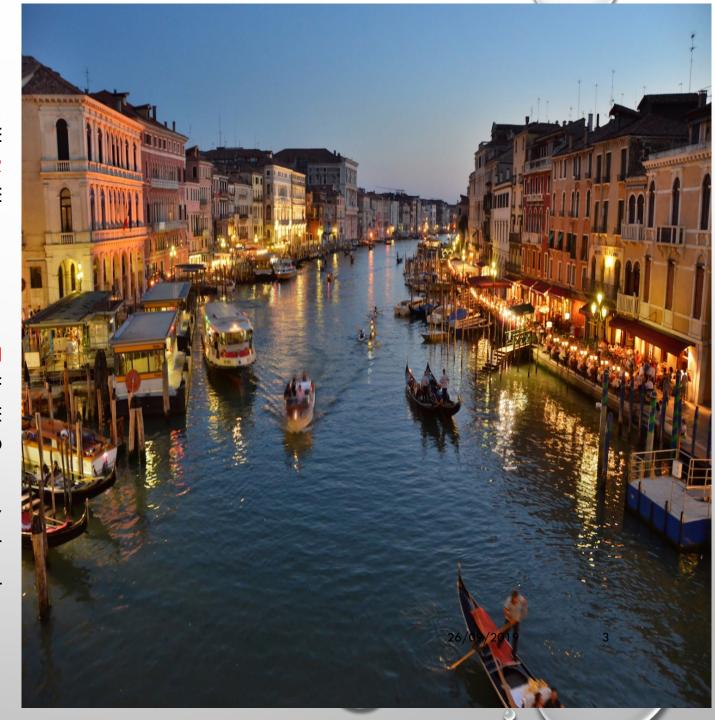
## VENICE, ITALY, CIRCA 1416 -1474

1416 - THE GREAT COUNCIL OF VENICE AWARDED THE FIRST PATENT FOR A TECHNOLOGICAL INVENTION TO SER FRANCISCUS PETRI OF RHODES IN RESPECT OF A DEVICE FOR TRANSFORMING WOOL INTO FELT.

- ✓ INTRODUCTION OF THE "RIGHT TO EXCLUDE" OTHERS
- ✓ FOR A TERM OF 50 YEARS

1421 - ARCHITECT AND ENGINEER FILIPPO BRUNELLESCHI WAS GRANTED AN INDIVIDUAL ACT IN PROTECTION OF HIS INTELLECTUAL PROPERTY RIGHTS IN THE MANUFACTURE OF A BARGE WITH HOISTING GEAR USED FOR TRANSPORTING MARBLE.

1474 - STATUTE THEN PROVIDED A STATUTORY ALTERNATIVE TO THE EXISTING AD HOC SYSTEM THAT WAS ALREADY IN PLACE TO PROVIDE INTELLECTUAL PROPERTY PROTECTION.



## **ENGLAND, CIRCA 1623**

1623 - THE STATUTE OF MONOPOLIES
WAS PASSED BY THE ENGLISH
PARLIAMENT

1623 - LUIGI PALOMBI REFERS TO IT AS "THE MOTHER OF MODERN PATENT LAW IN ALL COMMON LAW COUNTRIES".

SIR EDWARD COKE PRINCIPALLY DRAFTED THE 1623 STATUTE TO OUTLAW ABUSIVE MONOPOLIES, PARTICULARLY THOSE GRANTED UNDER THE KING'S LETTERS PATENT.



SOURCE: HTTPS://ONLINELLM.USC.EDU/BLOG/HISTORY-OF-PATENT-LAW/

## LET US NOW DEFINE A PATENT

- \*A PATENT IS AN **EXCLUSIVE RIGHT** GRANTED FOR AN INVENTION WHICH IS A <u>PRODUCT</u> OR A <u>PROCESS</u> THAT PROVIDES <u>NEW WAYS</u> OF DOING THINGS OR OFFERS A <u>NEW TECHNICAL SOLUTION</u> TO <u>A PROBLEM</u>
- A PATENT FOR AN INVENTION IS GRANTED BY GOVERNMENT TO THE INVENTOR, GIVING THE INVENTOR THE RIGHT TO STOP OTHERS, FOR A LIMITED PERIOD, FROM MAKING, USING OR SELLING THE INVENTION WITHOUT THEIR PERMISSION.

## WHAT IS THE ESSENCE OF PATENT PROTECTION?

#### OBJECTIVE

 PROMOTE TECHNOLOGICAL AND ECONOMIC DEVELOPMENT BY ENCOURAGING INNOVATION AND INVENTIVENESS

#### MECHANISM

PATENT RIGHTS FOR INVENTORS (LIMITED MONOPOLY)

#### BALANCE

• BETWEEN PATENTEES' RIGHTS (PROTECTED INVENTIONS) AND THE PUBLIC INTEREST (GROWTH OF KNOWLEDGE IN THE PUBLIC DOMAIN THROUGH DISCLOSURE OF THE INVENTION)

#### RELATIONSHIP WITH OTHER NATIONAL POLICY MEASURES

 PUBLIC HEALTH (E.G. HIV/AIDS DRUGS), USE OF GENETIC RESOURCES (PIC, DISCLOSURE AND BENEFIT SHARING), TRADITIONAL KNOWLEDGE, ENVIRONMENT PROTECTION

## THE BALANCING ACT

#### I. THE INVENTOR'S INTERESTS:

- WANTS A STRONG MONOPOLY IN ORDER TO HAVE AN EDGE OVER COMPETITORS
- HAS THE INVENTION OF KEEPING THE INVENTION SECRET!!
- HAS INVESTED A LOT OF TIME AND MONEY, SO HE SHOULD BE PROTECTED!!!

#### II. COMPETITOR'S/PUBLIC INTERESTS:

- THE IDEAS OF OTHERS SHOULD BE FREE TO USE
- ALL IDEAS SHOULD BE AVAILABLE TO THE PUBLIC
- MONOPOLIES SHOULD HAVE AS SHORT A DURATION AS POSSIBLE

## MAIN FEATURES OF A PATENT RIGHT

- THE RIGHT TO PREVENT OTHERS, FOR A LIMITED PERIOD, FROM MAKING, USING OR SELLING THE INVENTION WITHOUT THEIR PERMISSION.
  - IT IS NOT A RIGHT TO MAKE OR SELL THE INVENTION
- ONLY AVAILABLE FOR NEW INVENTIONS IN A FIELD OF TECHNOLOGY
- NEEDS TO FULFILL ALL CONDITIONS OF PATENTABILITY
- GEOGRAPHICALLY LIMITED UNDER NATIONAL PATENT LAWS TERRITORIAL!!
- BUT THERE ARE REGIONAL AND INTERNATIONAL TREATIES TO FACILITATE MULTIPLE FILINGS
   NO SUCH THING AS A REGIONAL OR INTERNATIONAL PATENT (EXCEPT OAPI?)
- HAS A LIMITED DURATION 20 YEARS FROM THE FILING DATE
- ANNUAL RENEWAL OR MAINTENANCE FEES (INCREASING WITH TIME) ANNUITIES
- SOME LIMITATIONS TO THE RIGHTS
- PROPERTY RIGHTS ALSO VEST IN INVENTIONS (PERSONAL PROPERTY)

- MAY BE SOLD OR LICENSED OUT

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## REQUIREMENTS FOR PATENTABILITY

- IN ORDER TO BE PATENTABLE, AN INVENTION MUST MEET THE FOLLOWING REQUIRMENTS:
- DATE ON WHICH THE APPLICATION FOR A PATENT IS FILED S.8 INDUSTRIAL PROPERTY

  ACT 2010 FOR BOTSWANA
- IT WOULD BE OBVIOUS TO SOMEONE WITH GOOD KNOWLEDGE AND EXPERIENCE OF THE SUBJECT MATTER (A PERSON REASONABLY SKILLED IN THAT ART), THEN IT LACKS INVENTIVENESS
- MADE OR USED IN SOME KIND OF INDUSTRY. THIS MEANS THAT THE INVENTION MUST TAKE THE PRACTICAL FORM OF AN APPARATUS OR DEVICE, A PRODUCT SUCH AS SOME NEW MATERIAL OR AN INDUSTRIAL PROCESS OR METHOD OF OPERATION

## **UNPATENTABLE SUBJECT-MATTER**

AN INVENTION IS NOT PATENTABLE IF IT IS:

- ✓ A DISCOVERY;
- ✓ A SCIENTIFIC THEORY OR MATHEMATICAL METHOD;
- ✓ AN AESTHETIC CREATION, LITERARY, DRAMATIC OR ARTISTIC WORK;
- ✓ A SCHEME OR METHOD FOR PERFORMING A MENTAL ACT, PLAYING A GAME OR DOING BUSINESS;
- ✓ THE PRESENTATION OF INFORMATION OR A COMPUTER PROGRAM, AS SUCH;
- NB: IF THE INVENTION INVOLVES MORE THAN THESE ABSTRACT ASPECTS SO THAT IT HAS PHYSICAL FEATURES (SUCH AS SPECIAL APPARATUS TO PLAY A NEW GAME) THEN IT MAY BE PATENTABLE.
- ✓ IN ADDITION IT IS NOT POSSIBLE TO GET A PATENT FOR PLANT VARIETY, A METHOD OF TREATMENT OF THE HUMAN OR ANIMAL BODY BY SURGERY OR THERAPY OR A METHOD OF DIAGNOSIS.

## **S.9 OF THE INDUSTRIAL PROPERTY ACT 2010**

#### THE FOLLOWING SHALL NOT BE REGARDED AS INVENTIONS AND SHALL BE EXCLUDED FROM PATENT PROTECTION —

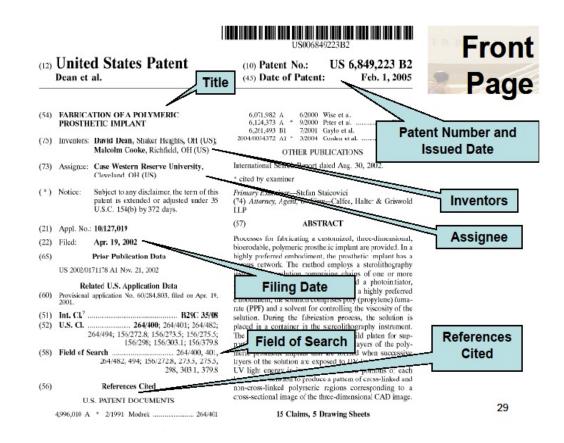
- (A) A DISCOVERY OR A PLANT, ANIMAL, MICRO-ORGANISM OR SUBSTANCE AS FOUND IN NATURE, INCLUDING THE HUMAN BODY;
- (B) A SCIENTIFIC THEORY OR MATHEMATICAL METHOD;
- (C) A LITERARY, DRAMATIC, MUSICAL OR ARTISTIC WORK OR OTHER AESTHETIC CREATION;
- (D) A SCHEME, RULE OR METHOD FOR DOING BUSINESS, PERFORMING A MENTAL ACT OR PLAYING A GAME;
- (E) A COMPUTER PROGRAM.

#### THE FOLLOWING SHALL NOT BE PROTECTED BY PATENTS, EVEN IF THEY ARE INVENTIONS —

- (A) METHODS FOR TREATMENT OF THE HUMAN OR ANIMAL BODY BY SURGERY OR THERAPY, AS WELL AS DIAGNOSTIC METHODS PRACTICED IN RELATION THERETO, EXCEPT PRODUCTS FOR USE IN ANY SUCH METHODS;
- (B) AN INVENTION THE COMMERCIAL EXPLOITATION OF WHICH IS NECESSARY TO PROTECT PUBLIC ORDER OR MORALITY INCLUDING PROTECTION OF HUMAN OR ANIMAL HEALTH, PLANT LIFE OR TO AVOID PREJUDICE TO THE ENVIRONMENT;
- (C) PLANTS AND ANIMALS OTHER THAN MICRO-ORGANISMS;
- (D) ESSENTIALLY BIOLOGICAL PROCESSES FOR THE PRODUCTION OF PLANTS OR ANIMALS.

11

## THE PATENT APPLICATION...





#### ANATOMY OF A PATENT APPLICATION

- TITLE STATEMENT ON THE FIELD OF THE INVENTION
- \* ABSTRACT SHOULD DESCRIBE THE INVENTION AT A VERY HIGH LEVEL IN THE LEAST WORDS POSSIBLE BACKGROUND A DISCUSSION OF THE 'STATE OF THE ART' WITH REFERENCES TO PRIOR ART DOCUMENTS SUCH AS KEY PATENTS, BOOKS OR JOURNAL ARTICLES
- \* PROBLEM THE NATURE OF THE PROBLEM IS OUTLINED AS PART OF THE STATE OF THE ART
- ❖ **DETAILED DESCRIPTION** EXPLAINS THE INVENTIVE STEP AND HOW IT WORKS
- \*DRAWINGS/ ILLUSTRATIONS SHOULD EXPLAIN THE INVENTION IN SUFFICIENT DETAIL THAT READING THE DETAILED DESCRIPTION SECTION MERELY CONFIRMS IN WORDS THE INFORMATION PROVIDED BY THE DRAWINGS.
- \* CLAIMS COVER THE LEGAL ASPECTS OF THE MONOPOLY, WITH THE FIRST BEING THE MAIN CLAIM AND THE LATER DEPENDANT CLAIMS REFERRING BACK TO EARLIER CLAIMS IN DESCRIBING WHAT IS NEW ABOUT THE INVENTION. THESE ARE THE LEGALLY OPERATIVE PART OF A PATENT APPLICATION EVERYTHING IN A PATENT REVOLVES AROUND THE CLAIMS.

#### **CHALLENGES**

#### COMMON CHALLENGES

- THE ECONOMIC ENVIRONMENT IN MOST COUNTRIES DOES NOT ALLOW FOR ADEQUATE INVESTMENT IN RESEARCH & DEVELOPMENT (R&D) AND COMMERCIALISATION OF RESEARCH RESULTS
- > IP INFRASTRUCTURAL DEFICIENCIES:
- ✓ POOR AND INEFFECTIVE IP ADMINISTRATION AND MANAGEMENT INFRASTRUCTURE
- ✓ LITTLE OR NO LINKAGE BETWEEN RESEARCH INSTITUTIONS AND PRIVATE CORPORATE CAPITAL TO PROMOTE COMMERCIALIZATION OF RESEARCH RESULTS
- POOR INTERNET CONNECTIVITY AFFECTS ACCESS TO TECHNOLOGICAL INFORMATION WHICH IS INVALUABLE IN RESEARCH ACTIVITIES
- LIMITED HUMAN AND FINANCIAL RESOURCES —LOW OR ABSENT PATENT DRAFTING CAPACITIES
- > A GENERAL INADEQUATE APPRECIATION OF IP AT ALL LEVELS OF SOCIETY

## CHALLENGES FACING SMALL OFFICES LIKE MALAWI

- ❖ A GENERAL LACK OF IP AWARENESS AT ALL LEVELS;
- FOR A LONG TIME, ABSENCE OF POLICY GUIDANCE ON IP MATTERS NATIONAL IP POLICY AND IMPLEMENTATION STRATEGY (NIPS) WAS A DRAFT FOR A LONG TIME UNTIL IT WAS ADOPTED BY CABINET ON 2<sup>ND</sup> APRIL, 2019, AND LAUNCHED ON 3<sup>RD</sup> MAY, 2019;
- ❖OLD PATENT ACT PRE-COLONIAL, 1958 ACT;
- NEED FOR A CRITICAL MASS OF IP EXPERTS ACROSS ALL DISCIPLINES TO CHAMPION IP MATTERS AT INSTITUTIONAL LEVEL;
- ❖ THE CHALLENGES THAT COME WITH BEING PART OF MAINSTREAM CIVIL SERVICE (LOW AND ILL-TRAINED STAFF, LIMITED BUDGETS ETC);
- LOW BUDGETARY ALLOCATION FOR R&D:
- ✓ R&D EXPENDITURE UNCOORDINATED, SPORADIC AND MAINLY AT INSTITUTIONAL LEVELS;
- ✓ POOR INTER-INSTITUTION COORDINATION ON RESEARCH ACTIVITIES RESULTING IN RESOURCE WASTAGES DUE TO REINVENTION OF THE WHEEL AND RESEARCH DUPLICATION; AND
- ✓ THE NATIONAL INNOVATION FUND YET TO BE ACTIVATED.

#### CHALLENGES FACING DEVELOPING COUNTRIES

# BALANCE BETWEEN THE PRIVATE RIGHTS AND PUBLIC INTERESTS

- THE NEED TO AVOID **INAPPROPRIATE PATENTING**, SUCH AS PATENTING OF A CLAIMED INVENTION THAT IS NOT NEW OR DOES NOT INVOLVE AN "INVENTIVE STEP"
- ✓ SUFFICIENCY OF THE DISCLOSURE AND ADEQUATE PATENT CLAIMS OF THE PCT INTERNATIONAL PHASE APPLICATIONS



#### CHALLENGES FACING DEVELOPING COUNTRIES

# BALANCE BETWEEN THE PRIVATE RIGHTS AND PUBLIC INTERESTS

- ✓ THE NEED TO ENSURE ACCESS TO MEDICINES: TRIP'S FLEXIBILITIES,

  COMPULSORY LICENSING, PARALLEL IMPORTATION
- THE NEED TO AVOID BIO PIRACY THE PROTECTION OF

  TRADITIONAL KNOWLEDGE AND CONSERVATION OF OUR BIO-DIVERSITY

  IS INCREASINGLY BECOMING A NATIONAL PRIORITY

## THANK YOU FOR YOUR KIND ATTENTION

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