

Effect of Anti-dumping and Anti-subsidy Investigation on Technology Import from China in Europe

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Abstract: Base on EC ongoing investigation database, PATENTSCOPE in WIPO and Espacenet in EPO, this paper research effect of anti-dumping and anti-subsidy investigation in EU on technology export in China. Through the trend of investigated products and investigated companies patent application in WIPO and technology export to EU percentage of technology export to world and investigated product and investigated company patent application in Espacenet and IPC of investigated products and investigated companies solve the following problems: Whether there is any effect on Chinese technology export to world after anti-dumping and anti-subsidy investigation in EU or not; What kind of influence after anti-dumping and anti-subsidy EU investigation on Chinese technology export to Europe and world.

Keywords: Anti-dumping Investigation, Anti-subsidy Investigation, China, Effect

1. Introduction

1.1. Background

Anti-dumping and Anti-subsidy investigation number to China in European Union (EU) is increasing recent years. Effect of anti-dumping and anti-subsidy investigation in EU to China is huge in news, especially in export product news [3]. But the record data in anti-dumping and anti-subsidy investigation was little before, especially China. Because of record data was little, it could not analyze base on little data. The European Communities (EC) web database of investigation record 96 anti-dumping and anti-subsidy investigation number to China from 2004 to 2016. Thereof there is 55 in measure in force, there is 21 in expired, there is 20 in no measure. The investigation procedure number is eight from initial investigation to expiry.[10]They are initial investigation, partial interim review, re-opening, new exporter review, anti-absorption investigation, anti-circumvention investigation, expiry review, expiry [5].

1.2. Database and Search Formula

Base on EC ongoing investigation database, PATENTSCOPE in world intellectual property organization (WIPO) and Espacenet in European Patent Office (EPO).

Anti-dumping and anti-subsidy investigation to China search strategy:

Product search in PATENTSCOPE: Enter first classification product name in title and second classification in abstract and CN in application nationality

Company search in PATENTSCOPE: Enter company name in application name and CN in application nationality

Product search in Espacenet: Enter first classification product name in title and second classification in abstract and CN in priority number and EP in publication number

Company search in Espacenet: Enter company name in application name and CN in priority number and EP in publication number

Base on investigated product name to classify product name and search one-level or two level classification product name. According to investigated case number to read detail case recording and write down company name.

1.3. Research Methods, Solutions of Technical Problems and Innovation Points

The paper base on the data from searching result in PATENTSCOPE and Espacenet to analyze the effect on overall export technology in China, export technology to

Europe in China and patent protection in Europe after investigation in production and company. There are 32 product name, 8 classifications, 9 individual products and 23 companies in WIPO. There are nine product names and one company in Espacenet.

The following are the two solutions of technical problems and innovation points:

A Whether there is any effect on Chinese technology export to world after anti-dumping and anti-subsidy investigation in EU or not.

B What kind of influence after anti-dumping and anti-subsidy EU investigation on Chinese technology export to Europe and world. [7]

Through the trend of investigated products and investigated

companies patent application in WIPO and technology export to EU percentage of technology export to world, this paper research that whether there is any effect on Chinese technology export to world after anti-dumping and anti-subsidy investigation in EU or not and What kind of influence after anti-dumping and anti-subsidy EU investigation on Chinese technology export to world. [6]

Through the trend of investigated product and investigated company patent application in Espacenet and IPC of investigated products and investigated companies, this paper research that what kind of influence after anti-dumping and anti-subsidy EU investigation on Chinese technology export to EP, especially in IPC.

2. The Investigated Product and Company Technology Export in WIPO

2.1. The Investigated Product

2.2.1. According to Product Name Search Technology Export

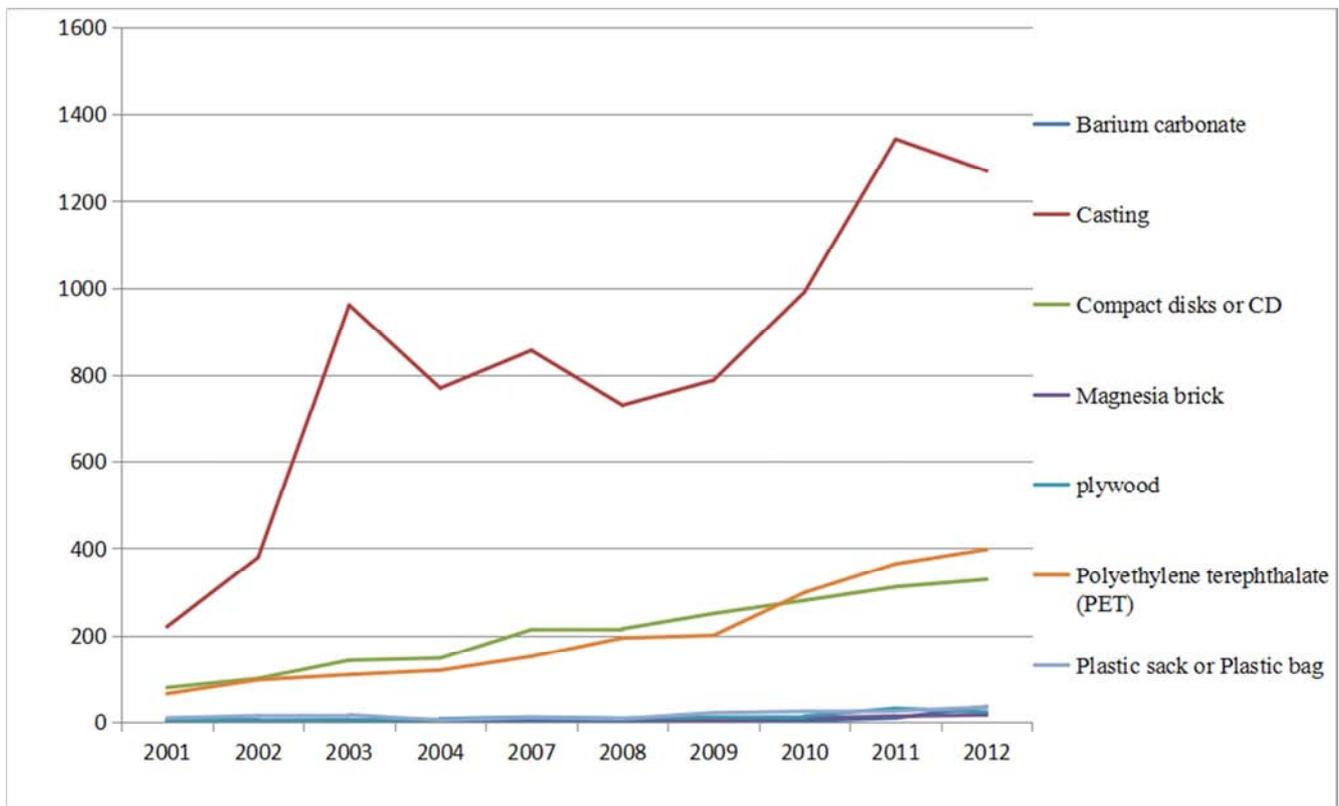


Figure 1. Product name technology export from 2001.

From figure 1 there are eight investigated products technology export in WIPO. Four investigated products are intuitive situation from 2001 to 2012, others are not intuitive. The most technology export product is casting, the investigation time is in 2004, the technology export number is increasing after 2004. The Polyethylene terephthalate (PET) and Compact disks or CD products investigation time is in

2003 and 2005, the technology export number of both products are increasing slightly after 2003 or 2005. Footwear investigation time is in 2005, it is increasing after 2001, but decreasing after 2007. Other three products Magnesia brick, plywood and Plastic sack or Plastic bag number are also increasing after investigation time.

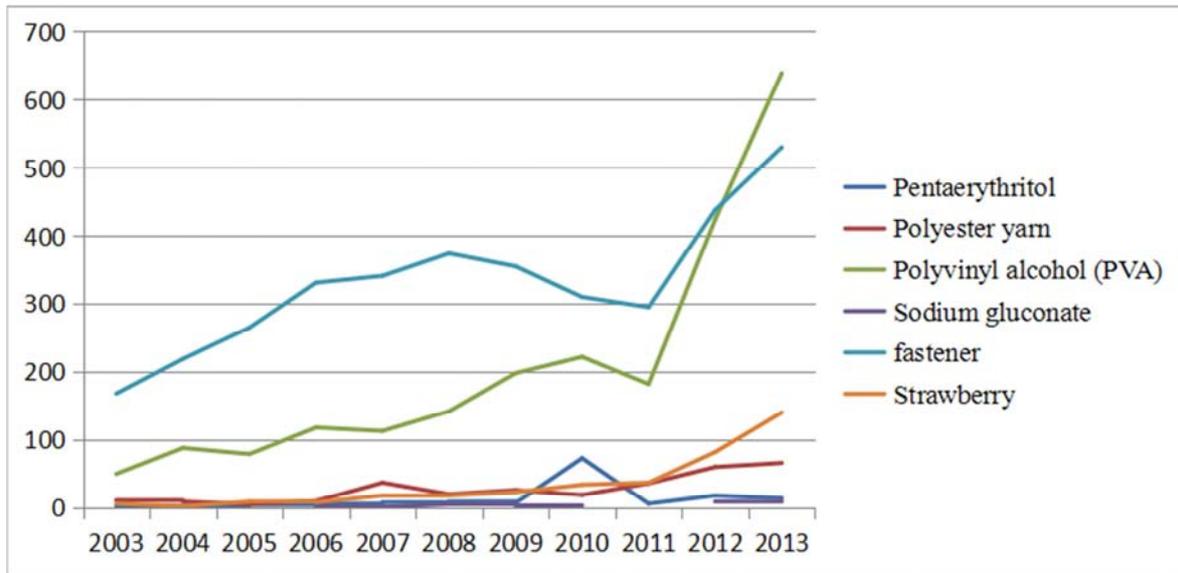


Figure 2. Part of product name technology export from 2003.

From figure 2 there are six investigated products technology export in WIPO. All the six investigated products are intuitive situation from 2003 to 2013. The most technology export product is fastener, the investigation time is in 2007, the technology export number is increasing after 2007. The second technology export product is Polyvinyl alcohol (PVA), the investigation time is in 2006, the technology export number is increasing after 2006. Pentaerythritol product technology export number is increasing suddenly in 2007, overall is increasing after investigation time 2006. Other products are also increasing after investigation time. [8]

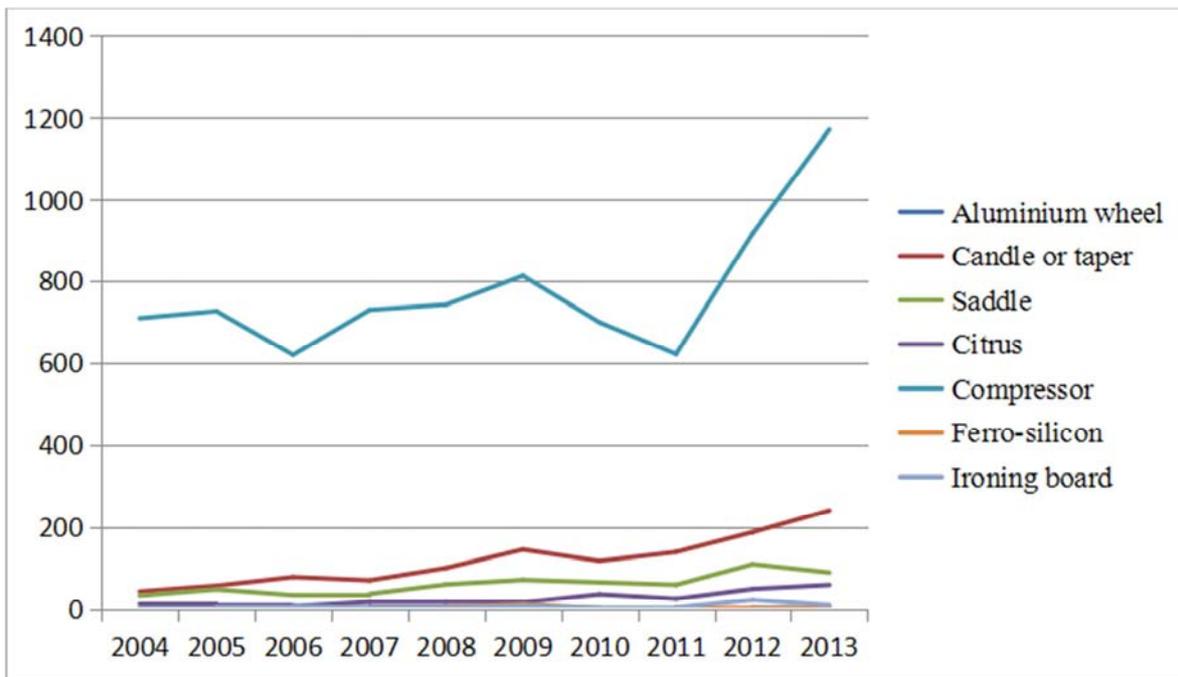


Figure 3. Product name technology export from 2004.

From figure 3 there are seven investigated products technology export in WIPO. The four investigated products have intuitive situation from 2004 to 2013. The most technology export product is aluminium wheel, the investigation time is in 2009, the technology export number is increasing after 2007, especially in 2011. The second technology export product is candle or taper, the investigation time is in 2008, the technology export number is increasing after 2008. Other five products are increasing after investigation time.

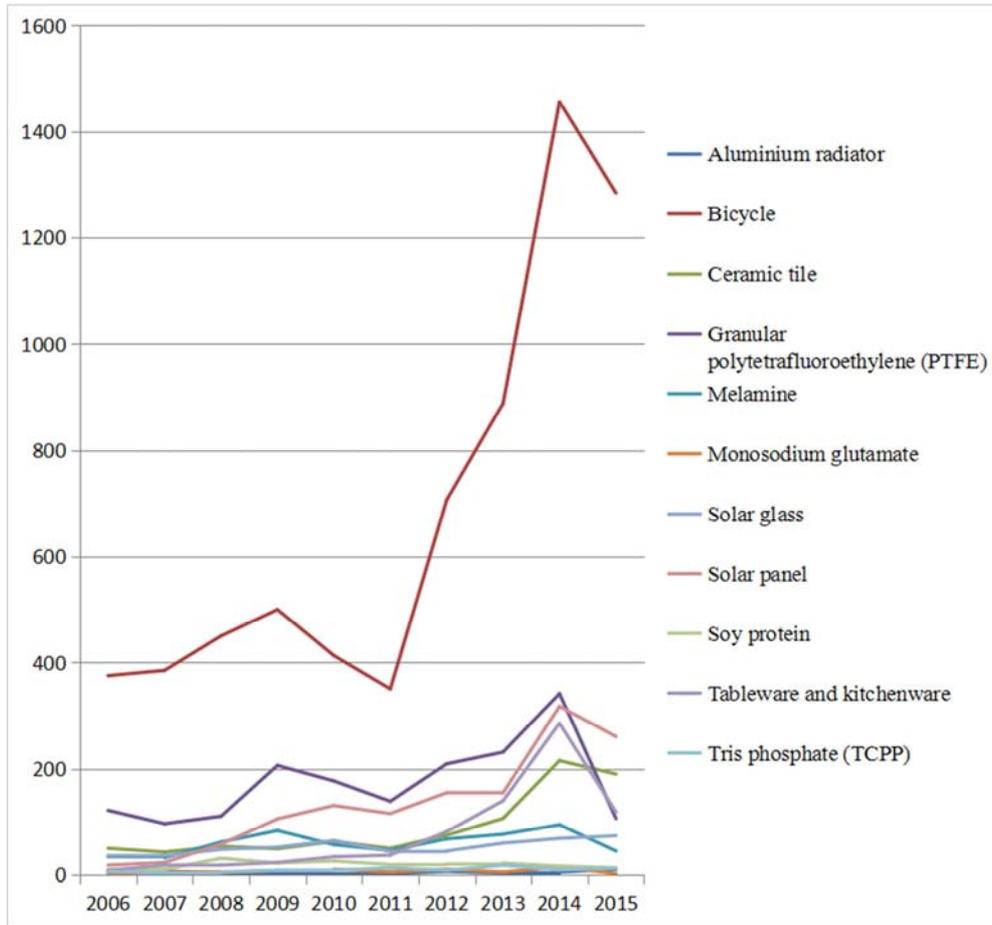


Figure 4. Product name technology export from 2006.

From figure 4 there are eleven investigated products technology export in WIPO. The seven investigated products are intuitive situation from 2006 to 2015. All these investigated products time is in 2010 to 2012. The most technology export product is bicycle. Granular polytetrafluoroethylene (PTFE), Solar panel, Tableware and kitchenware, Soy protein and Tris phosphate (TCPP) technology export number are increasing after investigation time, especially in 2015. Other products is also increasing after investigation time. [4]

2.2.2. According to Classified Product Name Technology Export

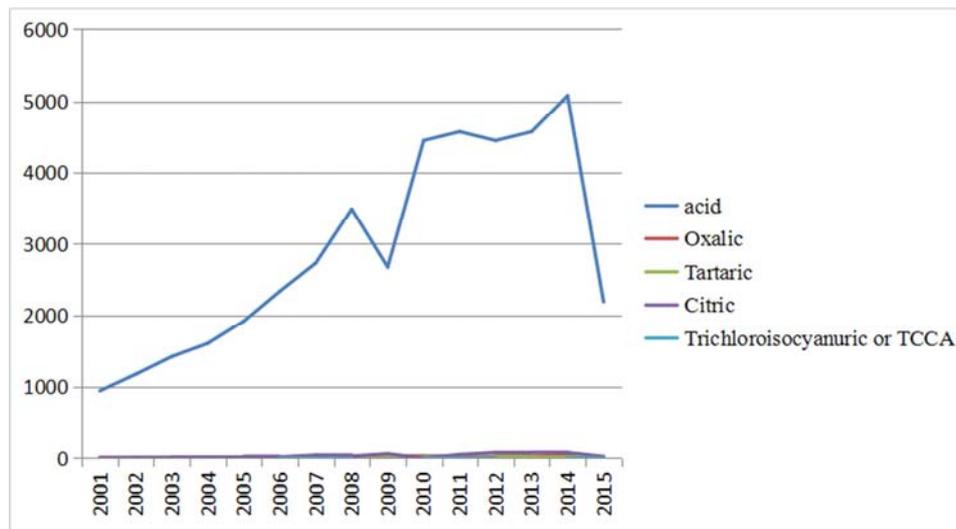


Figure 5. Acid classification technology export.

Acid classification technology export overall is increasing, especially in 2015 and 2009 in figure 5. Other subordinate acid except Trichloroisocyanuric or TCCA is also increasing after investigation time. Trichloroisocyanuric or TCCA is no technology export in 2009 and 2013, other years from 2001 to 2015 is little technology export.

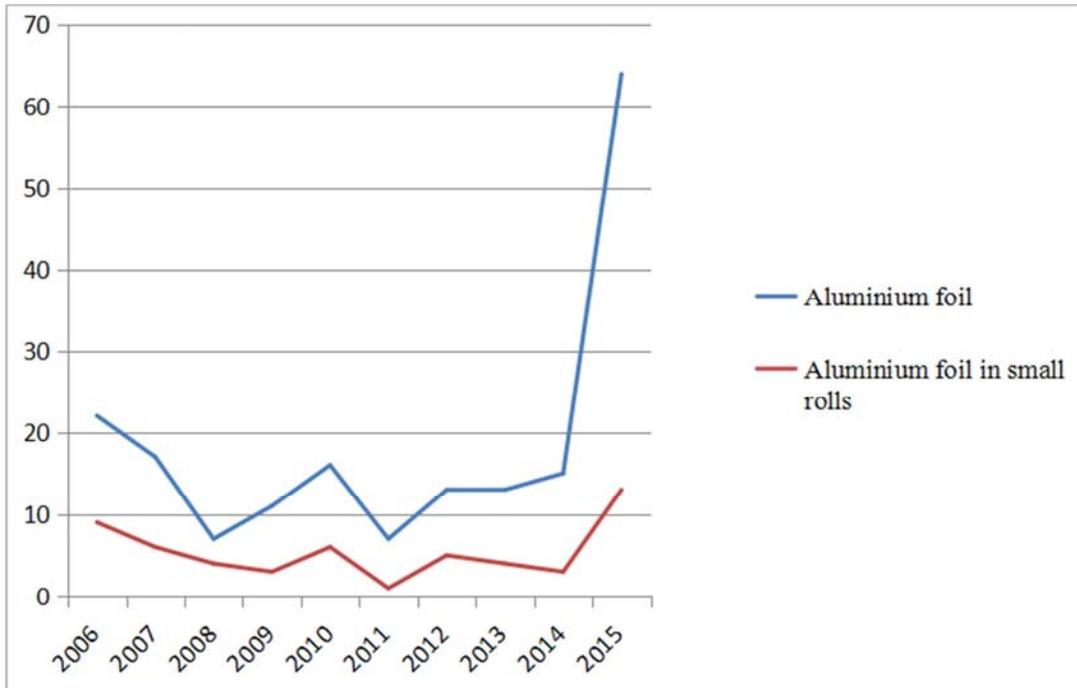


Figure 6. Aluminium foil classification technology export.

Aluminium foil classification technology export overall is increasing in figure 6. Subordinate aluminium foil in small rolls is increasing after investigation time 2014. The technology export number decrease in 2014.

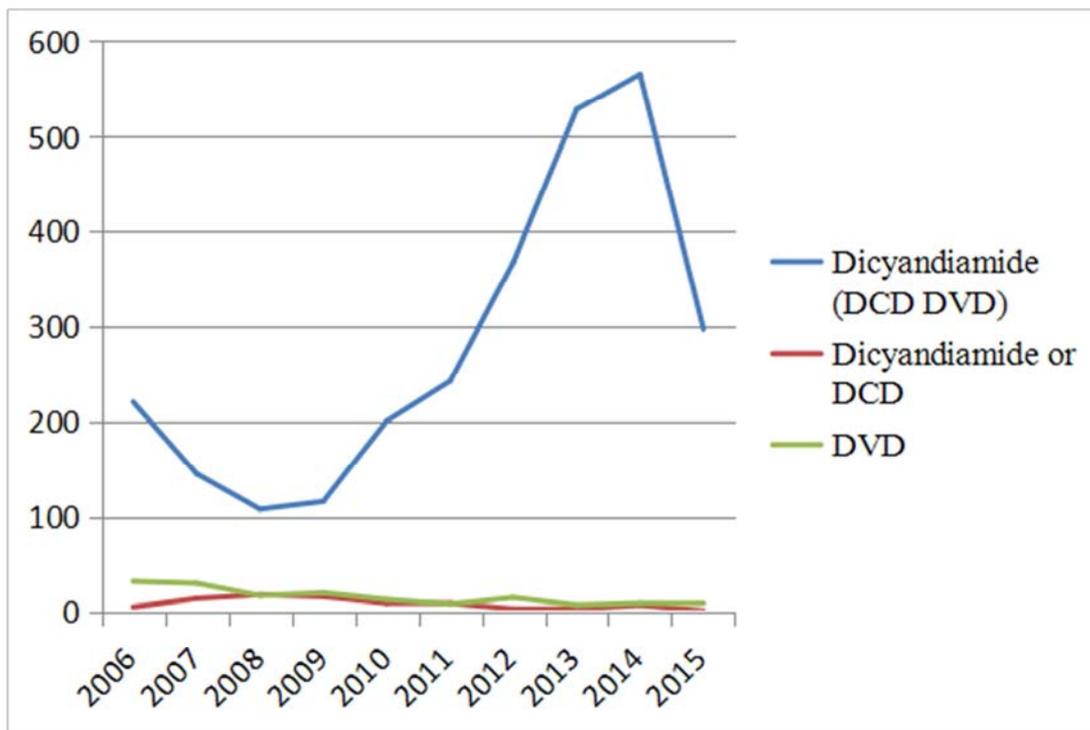


Figure 7. DCD or DVD classification technology export.

DCD or DVD classification technology export overall is increasing in figure 7, especially in 2014. The two Subordinate DCD or DVD, thereof DVD is decreasing after investigation time, But Dicyandiamide or DCD is little change after investigation time.

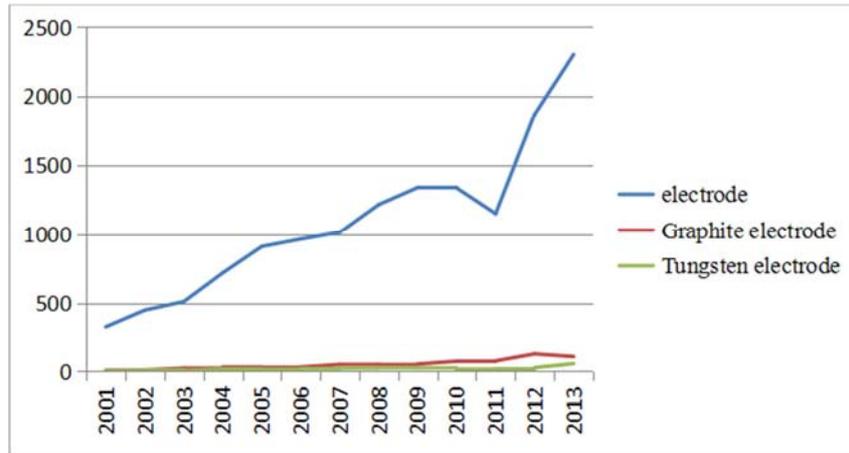


Figure 8. Electrode classification technology export.

Electrode classification technology export overall is increasing in figure 8. The two Subordinate graphite and tungsten is also increasing after investigation time.

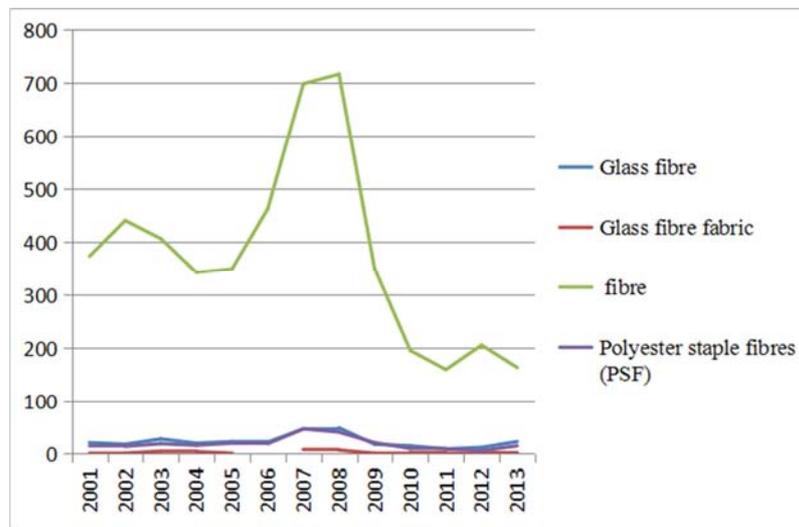


Figure 9. Fibre classification technology export.

Fibre classification technology export overall is decreasing in figure 9. The two subordinate classification glass fibre, Polyester staple fibres (PSF) are also increasing in first years and the decreasing in last years, But glass fibre fabric subordinate classification is little technology export.

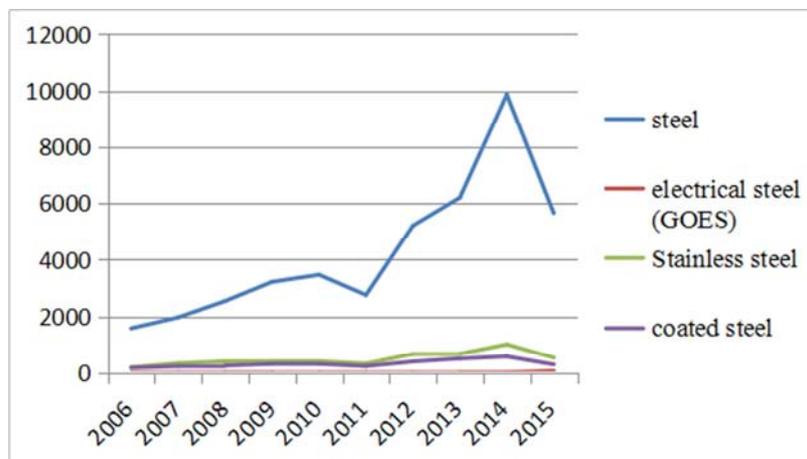


Figure 10. Steel classification technology export.

Steel classification technology [1] export overall is increasing in figure 10. The three subordinate classification electrical steel, stainless steel and coated steel, thereof stainless investigation time is in 2008 and 2014, overall is increasing, especially decrease in 2015. Thereof coated steel

investigation time is in 2011 and 2012, the technology export number is increasing after the two year. Electrical steel investigation year is in 2014 the technology export number increase in 2015.

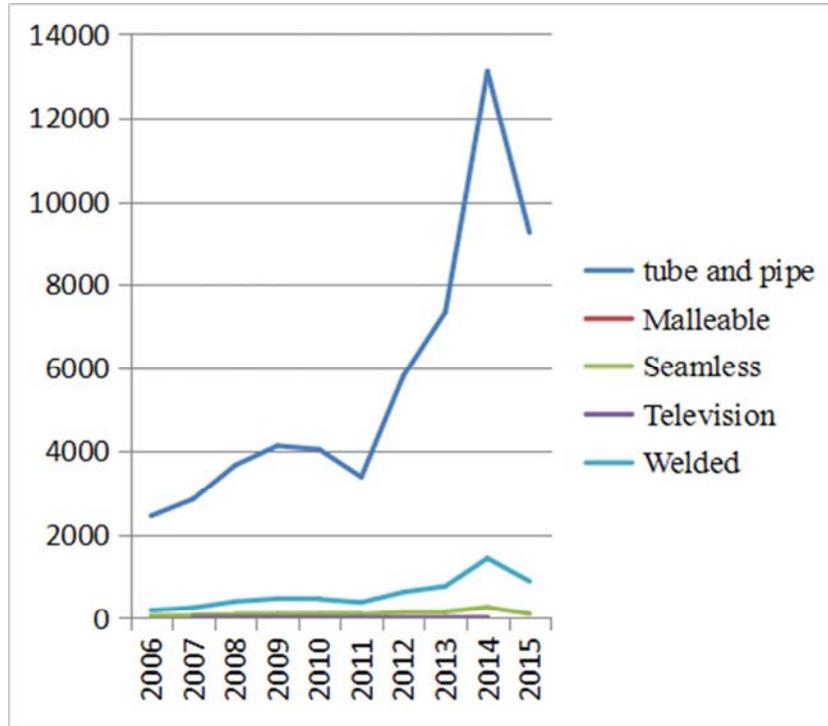


Figure 11. Tube or pipe classification technology export.

Tube or pipe classification technology export overall is increasing in figure 11. The four subordinate classifications malleable, seamless, television and welded thereof malleable and television is little technology export. Welded tube or pipe is increasing after investigation time 2007. Seamless investigation time is in 2013, increase in 2014 decrease in 2015. [9]

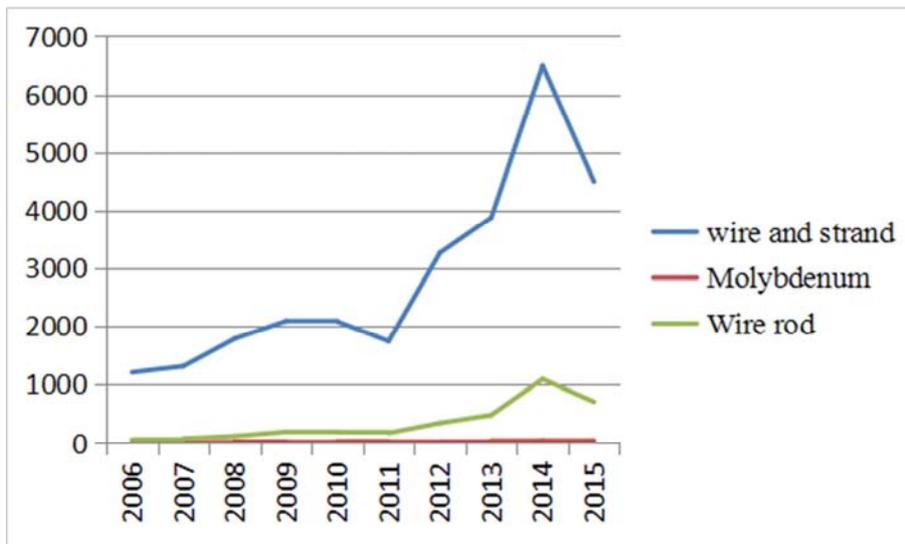


Figure 12. Wire or strand classification technology export.

Wire or strand classification technology export overall is increasing in figure 12. The two subordinate classifications molybdenum and wire rod, thereof molybdenum is little

technology export, wire rod is increasing after investigation time 2008.

2.2.3. Individual Product Name Technology Export

Table 1. Individual product technology export number after investigation time.

| Number | Name | Application number after investigation |
|--------|-------------------------------|--|
| 1 | Cargo scan | 1 |
| 2 | Coke 80 | 2 |
| 3 | Silico-manganese | 6 |
| 4 | Sodium cyclamate | 4 |
| 5 | Chamois Leather | 5 |
| 6 | Coated fine paper | 0 |
| 7 | Lever Arch | 16 |
| 8 | Acesulfame Potassium or ACE-K | 3 |
| 9 | Agglomerated stone | 7 |

There are nine products in table 1. Cargo scan is only one patent, application number is PCTUS2008087654, patent title is rotatable boom cargo scanning system. Coke 80 apply two patents, there are a method to treat flushing liquor systems in coke plants, application number is PCTCN2012074253 and implication of NI NANO domains in refractory metal oxide support by means of sol-gel encapsulation - an effective solution to coke formation in the partial oxidation of natural gas, application number is PCTSG2011000090. Silico-manganese is six patents; Sodium cyclamate is four patents; Chamois Leather is five patents; Lever Arch is sixteen patents; Acesulfame Potassium or ACE-K is three patents and Agglomerated stone is seven patents.

2.2.4. The Investigated Company

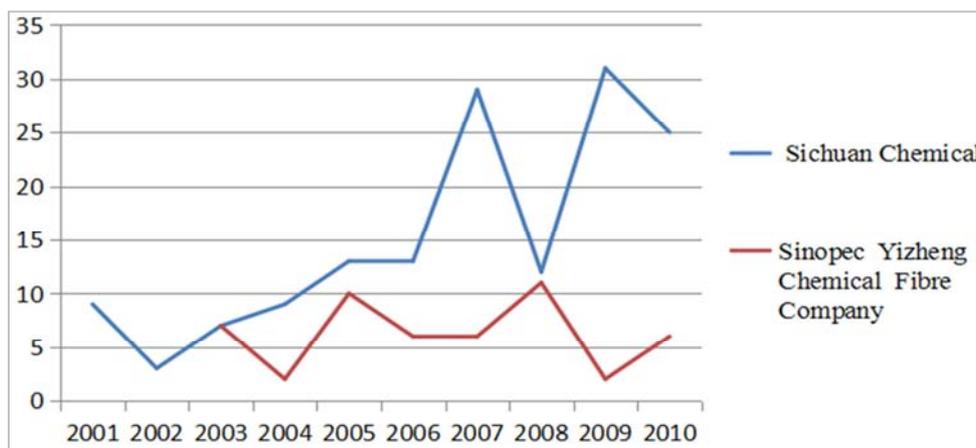


Figure 13. The investigated company technology export.

There are two companies in figure 13 from 2001 to 2010. They are all intuitive in picture 13. The sinopec Yizheng Chemical Fibre company investigation time is in 2003. There is no technology export before 2003. There is fluctuate slightly from 2003 to 2015. Sichuan chemical company investigation time is in 2010. There is fluctuate widely after 2010. There is no technology export in 2014 and 2015.

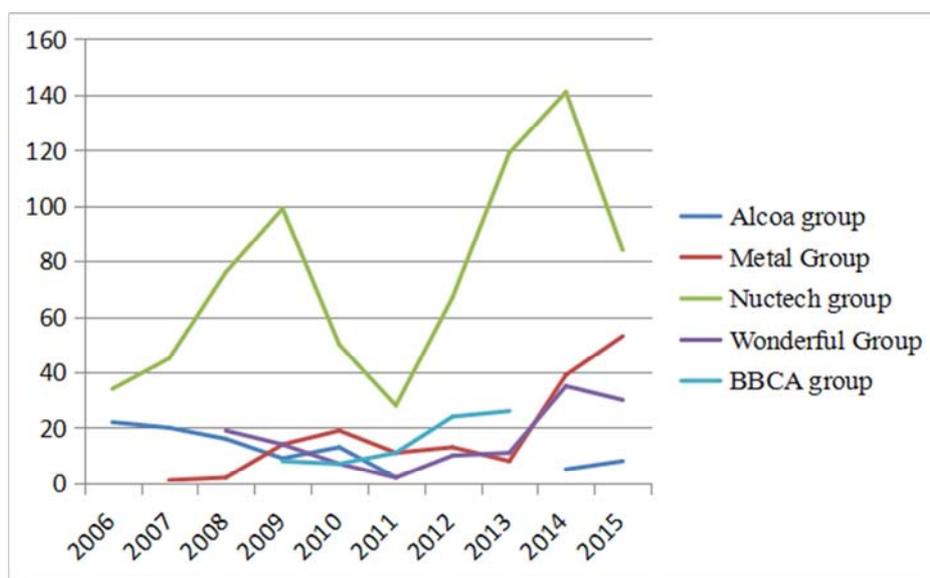


Figure 14. The investigated company technology export.

There are five companies in figure 14 from 2006 to 2015. They are all intuitive in picture 14. Alcoa group is decreasing after investigation time 2008, there is no technology export in 2012 and 2013. Metal group is increasing after investigation time 2011. Nucotech group is fluctuate widely and increasing

in whole after investigation time 2009. Wonderful group is fluctuate widely and increasing in whole after investigation time 2010. BBCA group is no technology export before investigation time 2007, 2014 and 2015. BBCA group is increasing in whole after 2007.

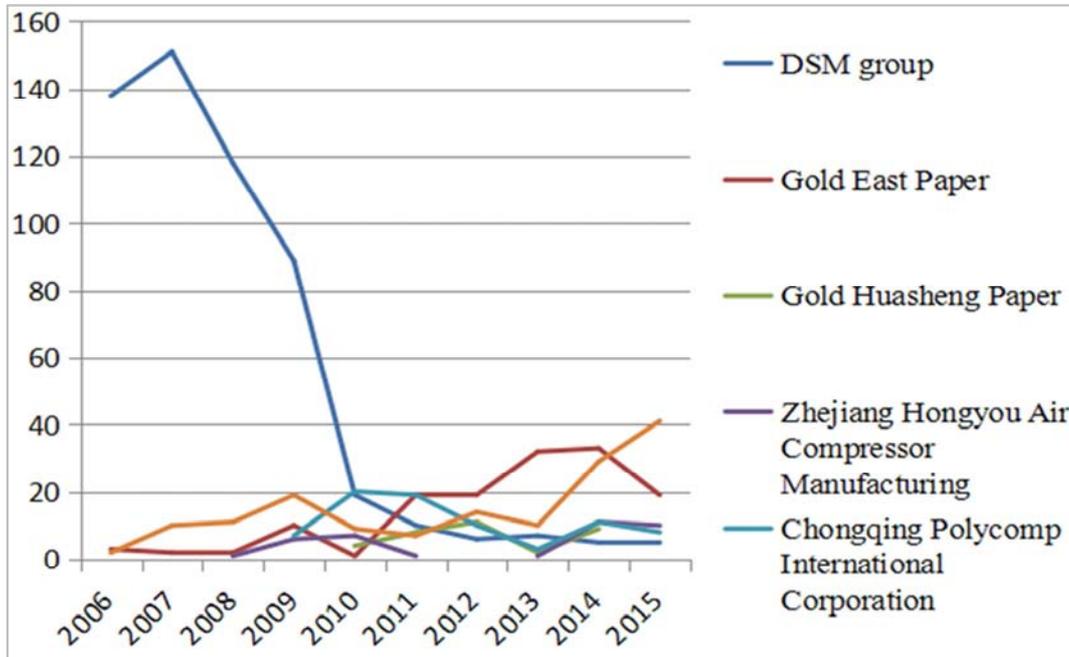


Figure 15. The investigated company technology export.

There are six companies in figure 15 from 2006 to 2015. They are all intuitive in picture 15. DSM group is fluctuate widely and decreasing after investigation time 2007. Gold east paper is increasing after investigation time 2010. Gold huasheng paper is no technology export before investigation time 2010 and 2015, there is fluctuate slightly after 2010. Zhejiang hongyou air compressor manufacturing is no

technology export before investigation time 2006 and 2012, here is fluctuate slightly after 2006. Chongqing polycomp international is no technology export before investigation time 2009, here is fluctuate slightly and increasing in whole after 2009. Jushi group investigation time is in 2009, here is technology export in 2008 2009 2010 and 2011. here is no technology export after 2011.

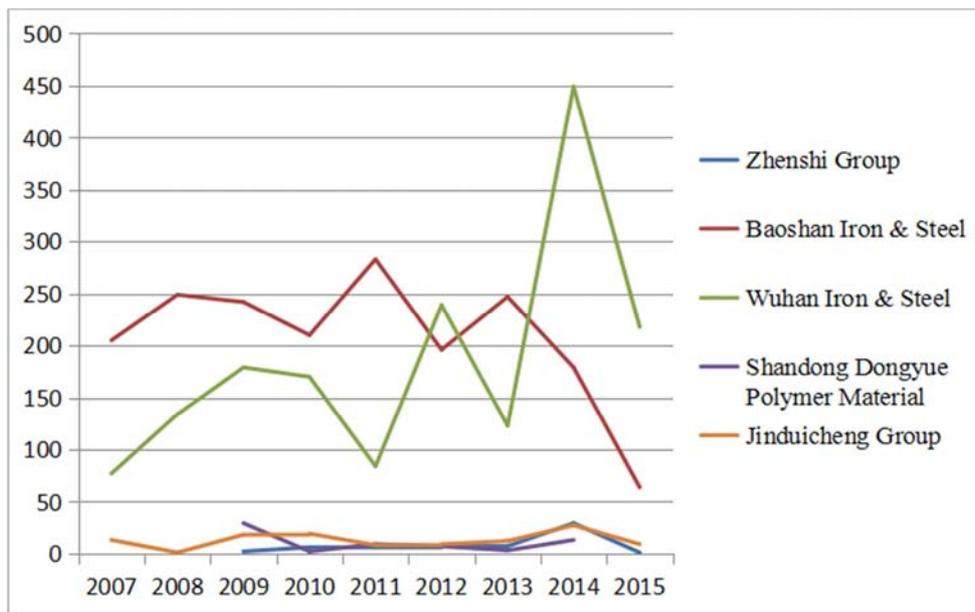


Figure 16. The investigated company technology export.

There are six companies in figure 16 from 2006 to 2014. They are all intuitive in picture 16. Zhenshi group investigation time is in 2009, there is fluctuate slightly and increasing after 2009. Baoshan iron & steel investigation time is in 2014, technology export is decreasing in 2015. Wuhan iron & steel investigation time is in 2014, technology export is decreasing

in 2015. Shandong dongyue polymer material investigation time is in 2004, technology export is increasing and fluctuate slightly after 2004. Sichuan chemical group investigation time is in 2010, technology export is increasing and fluctuate slightly after 2010. Jinduicheng group investigation time is in 2009, technology export is fluctuate slightly after 2009.

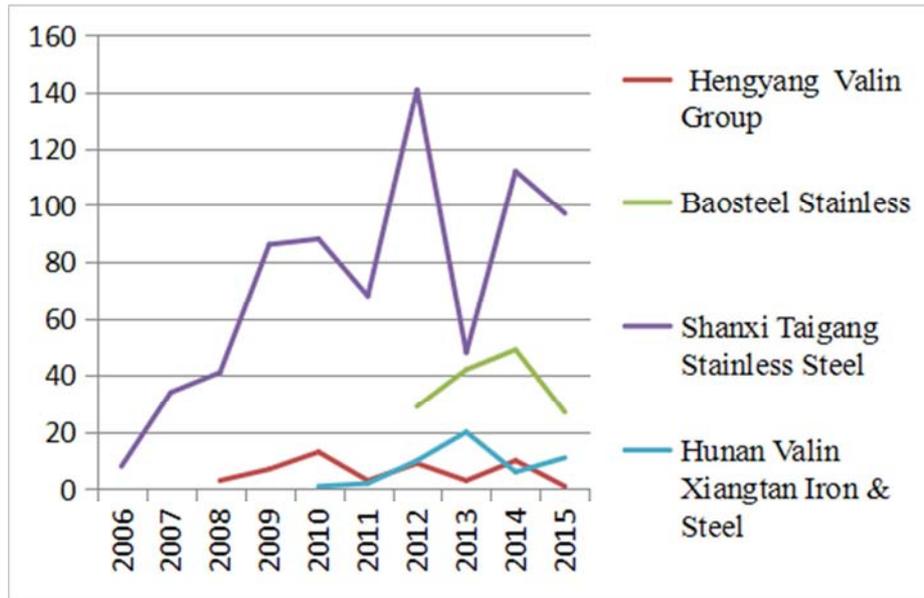


Figure 17. The investigated company technology export.

There are four companies in figure 17 from 2006 to 2015. They are all intuitive in picture 17. Hengyang valin group investigation time is in 2008, technology export is increasing and fluctuate slightly after 2008. Baosteel stainless investigation time is in 2014, technology export decrease in

2015. Shanxi Taigang stainless steel investigation time is in 2014, technology export is not obvious in 2015. Hunan valin xiangtan iron & steel investigation time is in 2014, technology export is not obvious in 2015.

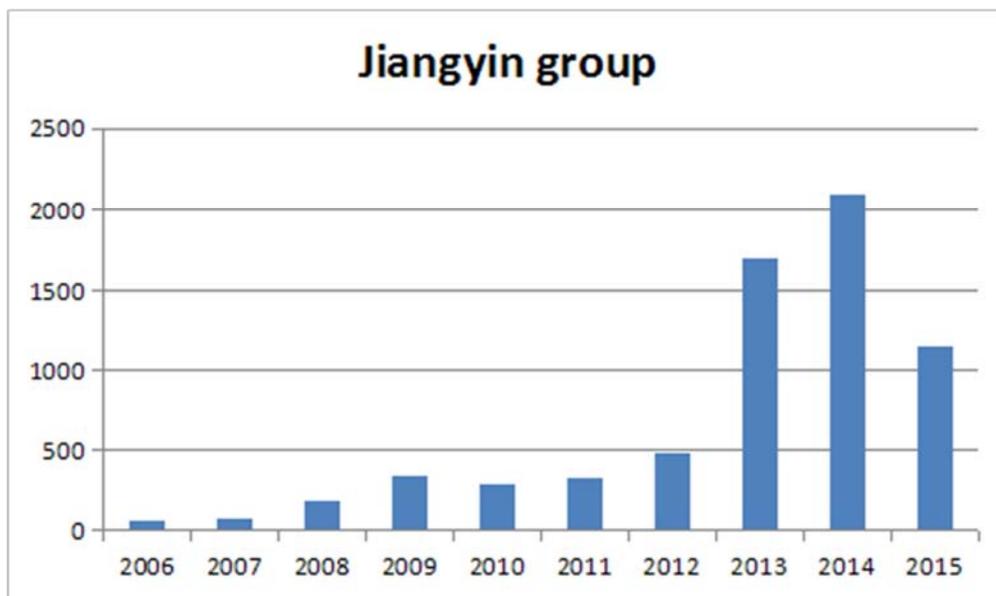


Figure 18. Jiangyin group technology export.

Figure 18 is Jiangyin group technology export, Jiangyin group investigation time is in 2013, technology export is increasing after 2013.

3. Export into Europe Effect on the Investigated Products and Company

3.1. The Investigated Product

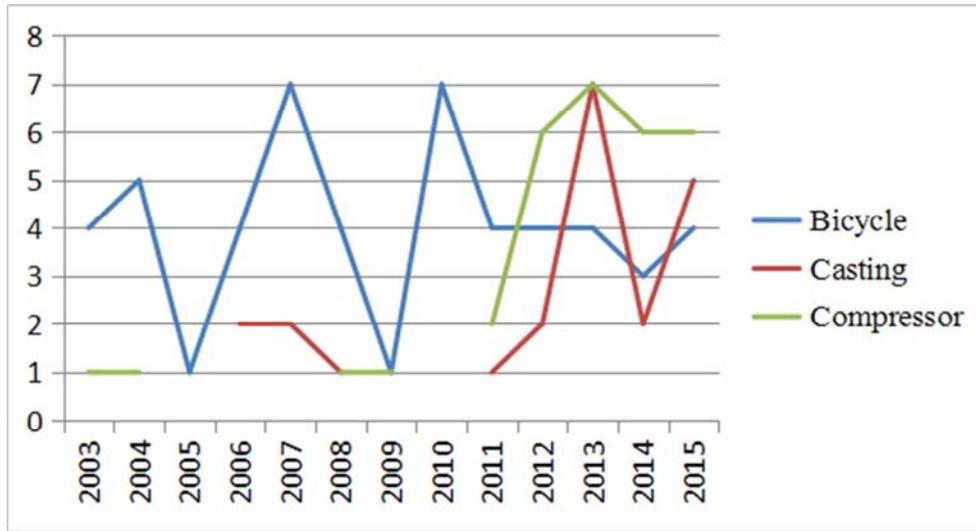


Figure 19. Product name technology export to Europe.

There is three products in figure 19. Bicycle investigation time is in 2012, technology export is not obvious after 2012. Casting investigation time is in 2004, technology export is fluctuate widely and increasing after 2004. Compressor investigation time is in 2006, technology export is fluctuate widely and increasing after 2004.

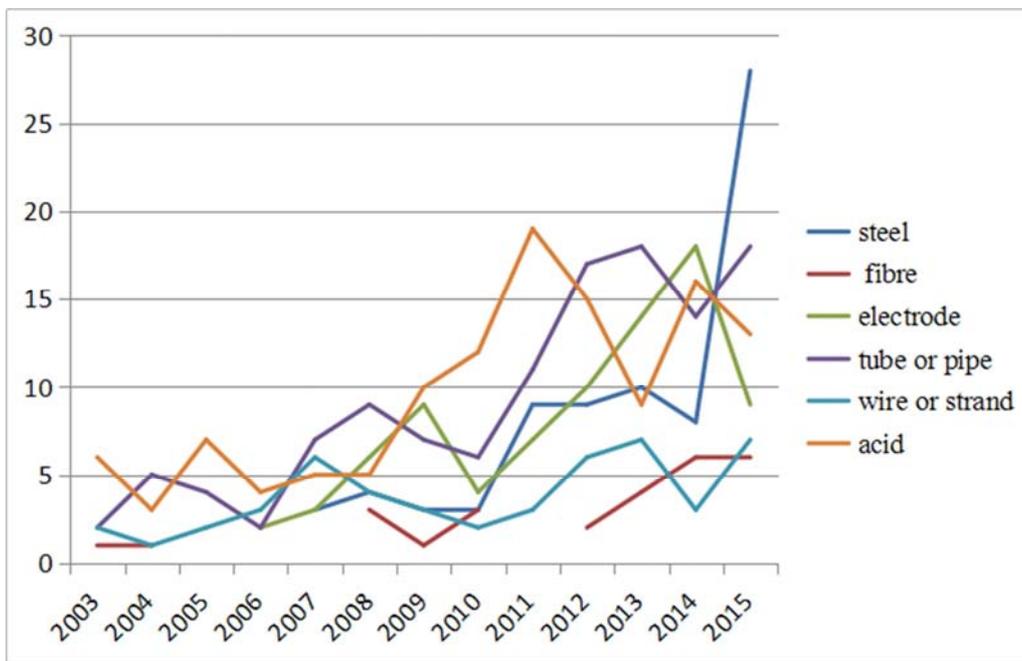


Figure 20. Classification product name technology export to Europe.

There is six products in figure 20. Steel investigation time is in 2007, 2008, 2011, 2012 and twice in 2014, technology export is fluctuate widely and increasing after investigation time. Fibre investigation time is in 2004, 2010, 2011 and 2013. There is no technology export in 2005, 2006, 2007 and 2011. Technology export is fluctuate widely and increasing after investigation time. Electrode investigation time is in 2005 and 2010, technology export is fluctuate widely and increasing

after investigation time. Tube or pipe investigation time is in 2006, 2007, 2008, 2012 and 2013, technology export is fluctuate widely and increasing after investigation time. Wire or strand investigation is twice in 2008 and 2009, technology export is fluctuate slightly and increasing after investigation time. Acid investigation is twice in 2004, 2007, 2011 and 2014, technology export is fluctuate widely and increasing after investigation time.

3.2. The Investigated Company

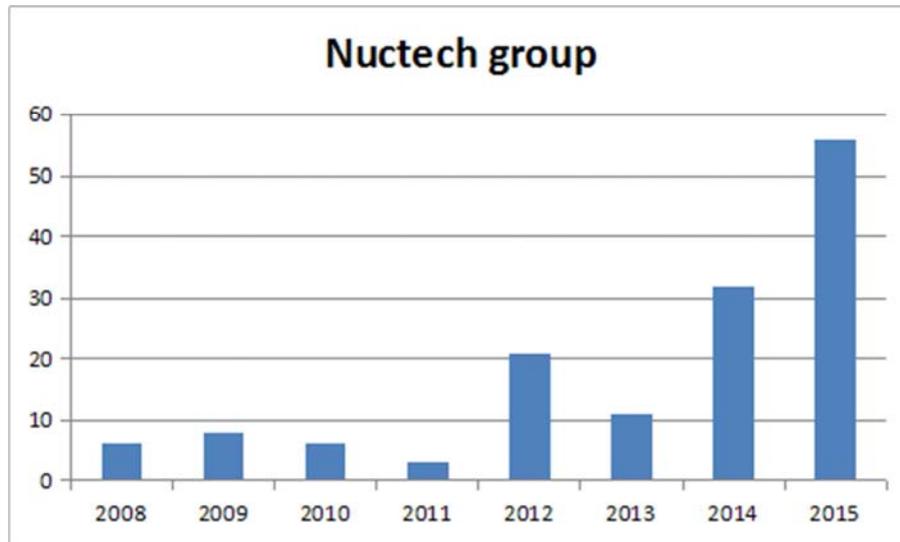


Figure 21. The investigated company technology export to Europe.

Figure 21 is Nuctech group technology export, Nuctech group investigation time is in 2009, technology export is fluctuate widely and increasing after 2009.

4. Protection Strategy of the Investigated Products and Company in Europe After Investigated

4.1. The Technology of Investigated Product

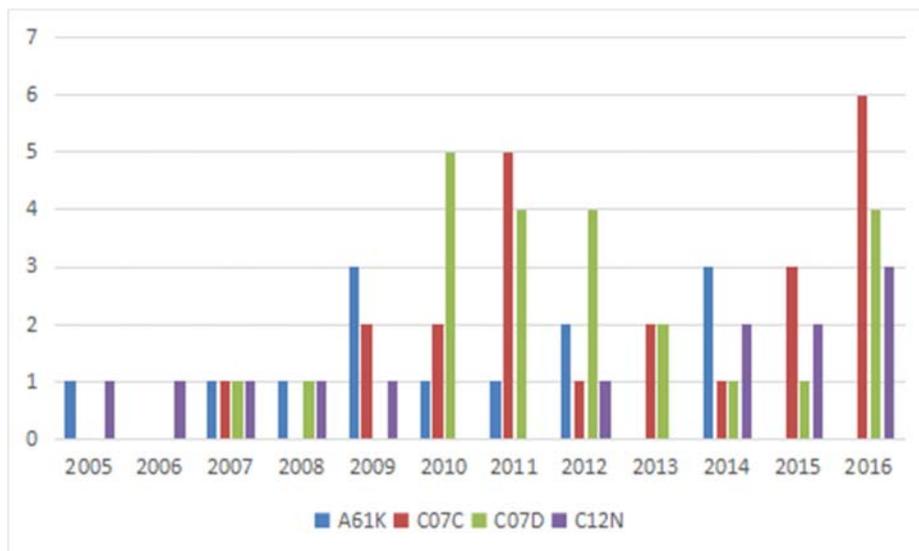


Figure 22. The product acid technology export to Europe after investigation.

There are four technology IPC on acid product in figure 22. A61k is increasing after 2008, but there is no technology export in 2015 and 2016. C07C is increasing after 2008. C07D is increasing after 2009 but there is decreasing in 2014 and 2015. C12N is increasing after 2013.

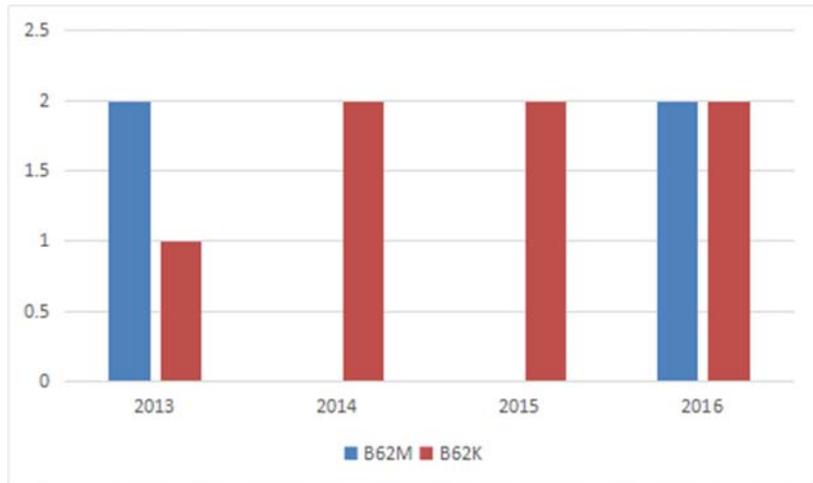


Figure 23. The product bicycle technology export to Europe after investigation.

There are two technology IPC on bicycle product in figure 23. B62K are equal number after 2013. B62M is no technology export in 2014 and 2015.

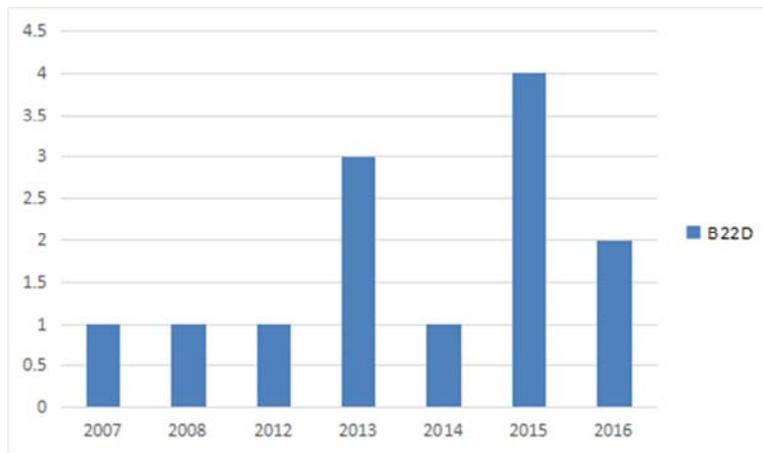


Figure 24. The product casting technology export to Europe after investigation.

There is only one technology IPC on casting product in figure 24. B22D is increasing after 2012, especially in 2014.

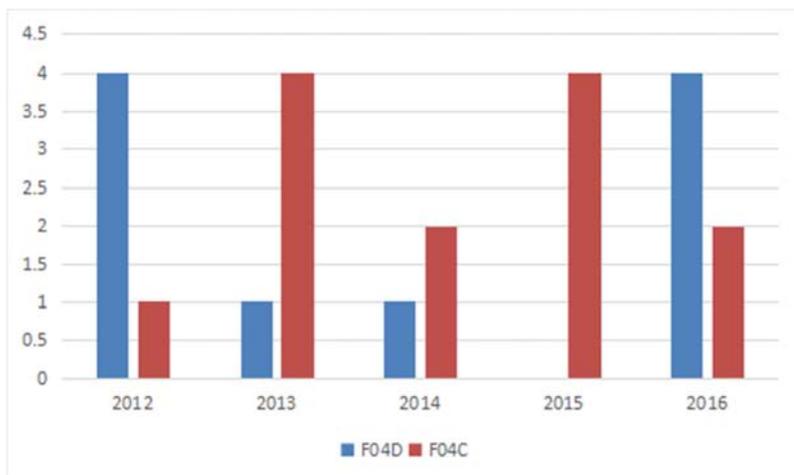


Figure 25. The product compressor technology export to Europe after investigation.

There are two technology IPC on compressor product in figure 25. F04C is increasing after 2012. F04D is decreasing in 2013 and 2014.

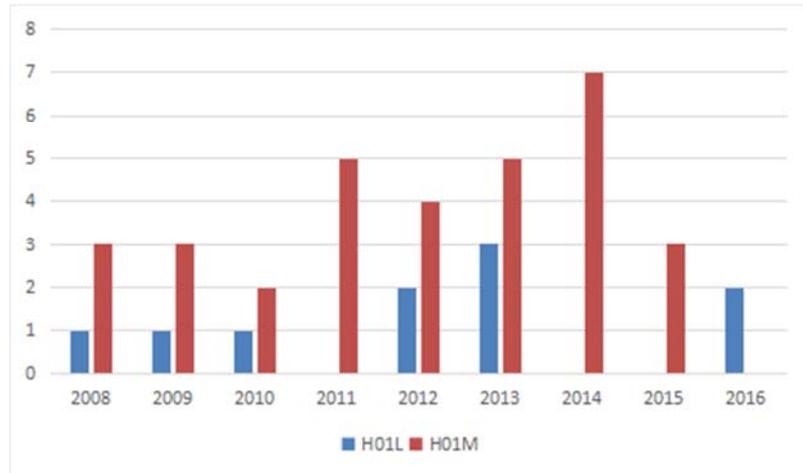


Figure 26. The product electrode technology export to Europe after investigation.

There are two technology IPC on electrode product in figure 26. H01M is increasing after 2010. H01L is increasing in 2012 and 2013, but there is no technology export in 2011, 2014 and 2015.

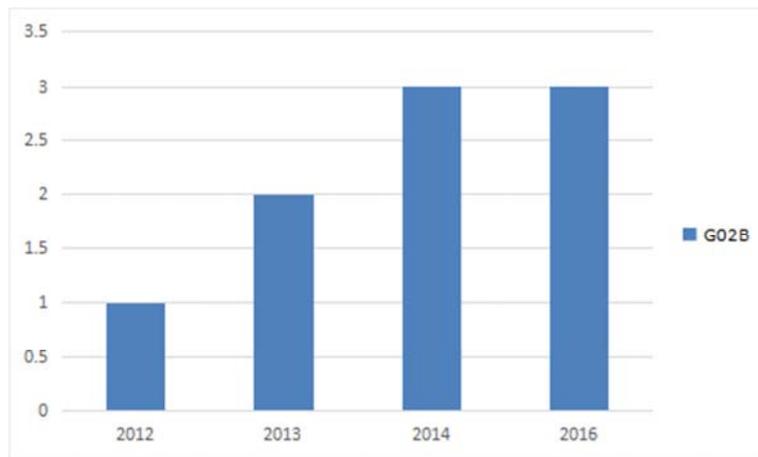


Figure 27. The product fibre technology export to Europe after investigation.

There is only one technology IPC on fibre product in figure 27. G02B is increasing after 2013.

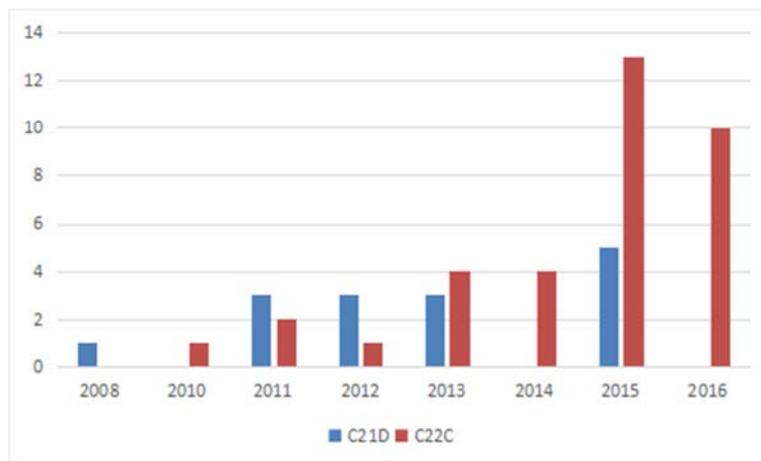


Figure 28. The product steel technology export to Europe after investigation.

There are two technology IPC on steel product in figure 28. C22C is increasing after 2012. C21D increase in 2015, but there is no technology export in 2008 and 2014.

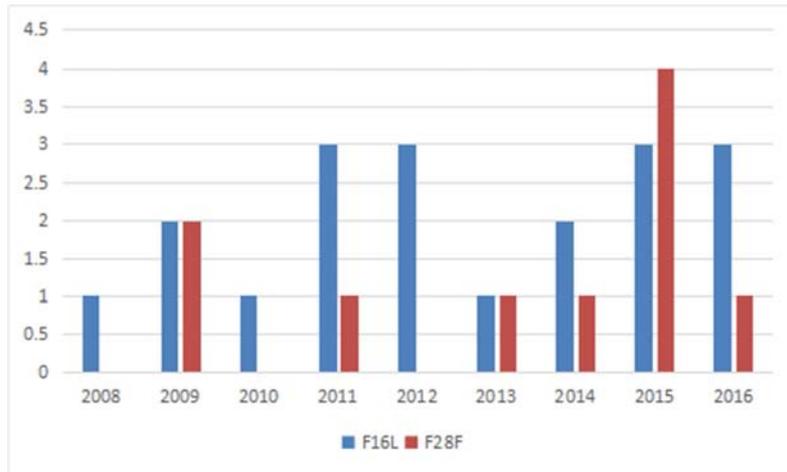


Figure 29. The product tube or pipe technology export to Europe after investigation.

There are two technology IPC on tube or pipe product in figure 29. F16L decrease in 2008, 2010 and 2013, but increase in 2011, 2012, 2015 and 2016. F28F increase in 2009 and 2015, but there is no technology export in 2008 and 2012.

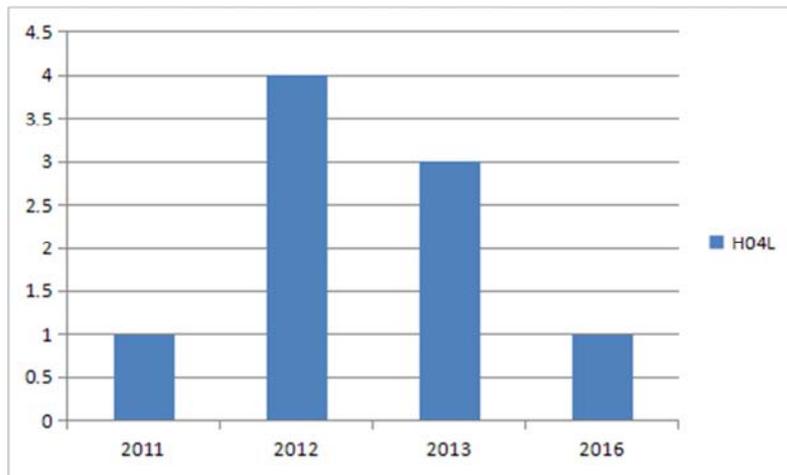


Figure 30. The product wire or strand technology export to Europe after investigation.

There is only one technology IPC on wire or strand product in figure 30. H04L is increasing in 2012 and 2013.

4.2. The Technology of Investigated Company

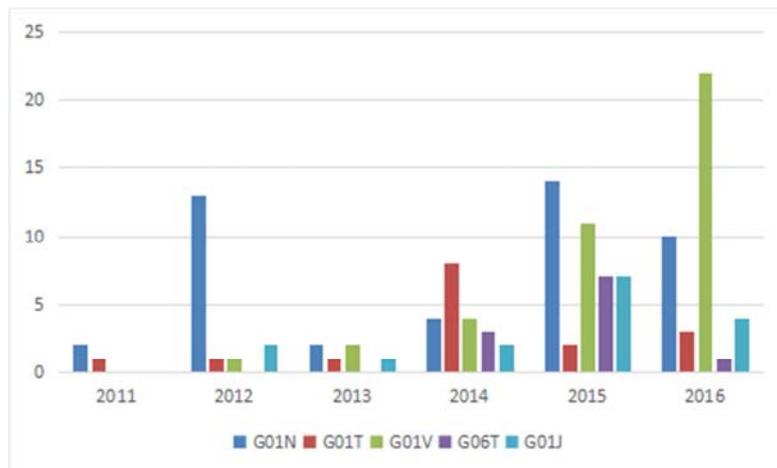


Figure 31. The company Nucotech technology export to Europe after investigation.

There are five technology IPC in company Nuctech in figure 31. G01N is increasing in 2012, 2015 and 2016. G01T is increasing in 2014. G21V is increasing in 2015 and 2016. G01J is increasing in 2015 and 2016.

5. Conclusion

There is no effect on technology export to world in all investigated products and companies, because technology export to EU percentage of technology export to world of all of the investigated products and investigated companies are less than 50%, even none [2].

All of the investigated products and investigated companies have good effect, except bicycle product, because the trend of application in EP is rising. Bicycle is no influence. The significant IPC are A61K, C97C, C07D in acid; The significant IPC is B22D in casting; The significant IPC is H01M in electrode; The significant IPC is G02B in fibre; The significant IPC is C22C in steel; The significant IPC is H04C in wire or strand; The significant IPC is F28F in tube or pipe; The significant IPC are G01N and G01V in Nuctech.

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