

Introduction

This study gives an insight into patents published in Apparel Industry since Jan 2020. Despite Covid-19, our study observed a healthy patenting activity in the apparel segment, especially related to PPE kits, masks, gloves, and other essential apparel that are required in the fight against COVID-19. It is interesting to note that amidst COVID, Wuhan Hospital has filed 100+ utility models related to PPE kits and is a frontrunner in the segment. A lot of Chinese startups and Govt. aided research institutes have invested in obtaining patent rights in technologies that were aimed to strengthen the fight against COVID.

Our research team at IIPRD analyzed patents that were published in 2020 and relate to innovations in the apparel industry worldwide and came out with some eye-catching insights.

IIPRD has summarized the key findings in the coming slides. For a copy of the detailed technology-wise analysis, write to us at sanjay@iiprd.com

29000+ Publications

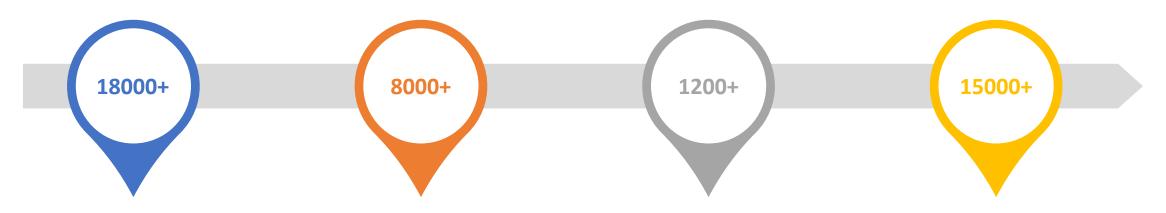
4% owned by top 10 players

35+ litigated

250+ opposed

3+ Licensed

Innovating to Combat COVID-19



Chinese Technologies

18000+
patents/publications/utility
models have Chinese origin
and most of them relate to
PPE's to protect Surgeons/
Vulnerable ones.

Personal Protective Apparel

8000+
patents/publications/utility
model relates to Surgeon
gown, Mask, Gloves and
other protective apparels.

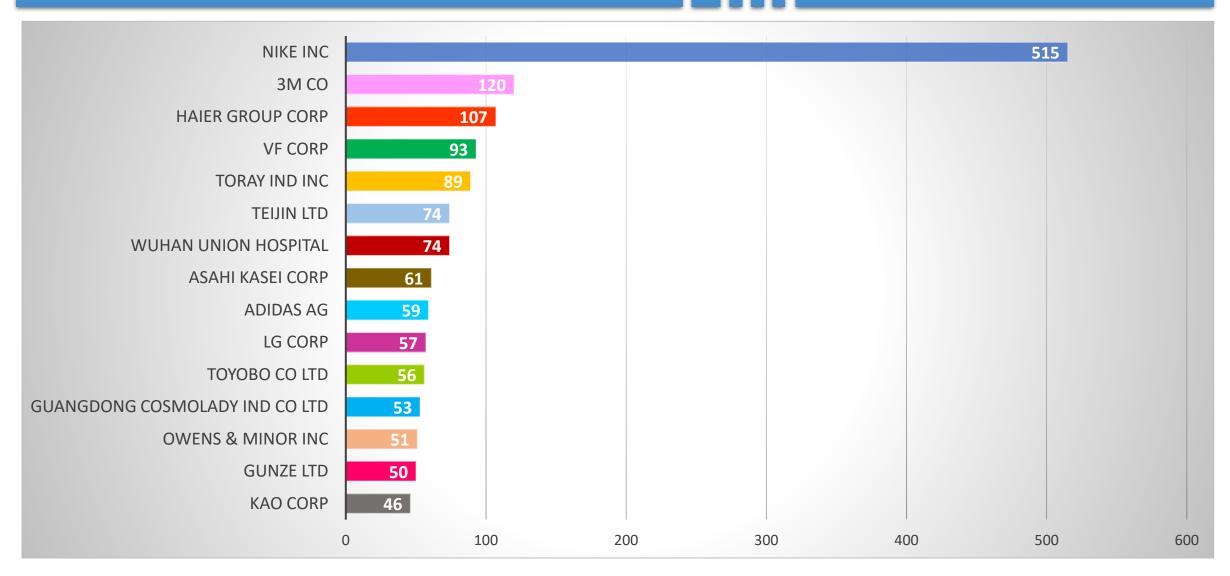
Vests

Even during the COVID era sports apparel companies like Nike, Adidas and others continued their innovation and filed patents related to vests/jerseys and the like.

Utility Models

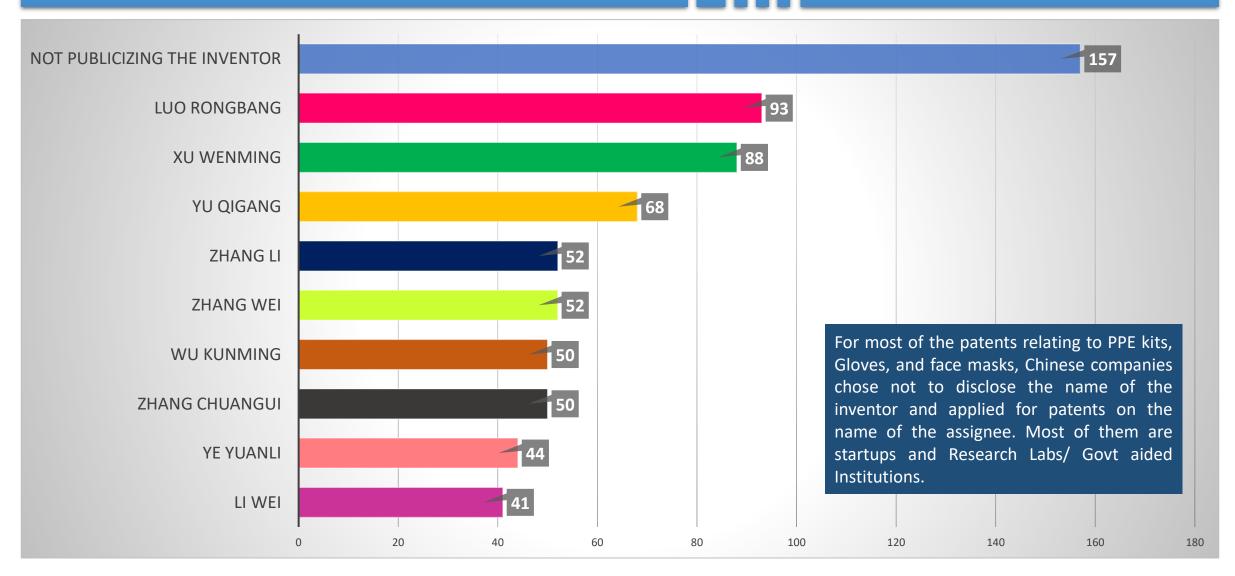
More than 50% of the patent document published are utility models originating from Chinese, German and Korean companies.

Top Patent Assignee in 2020



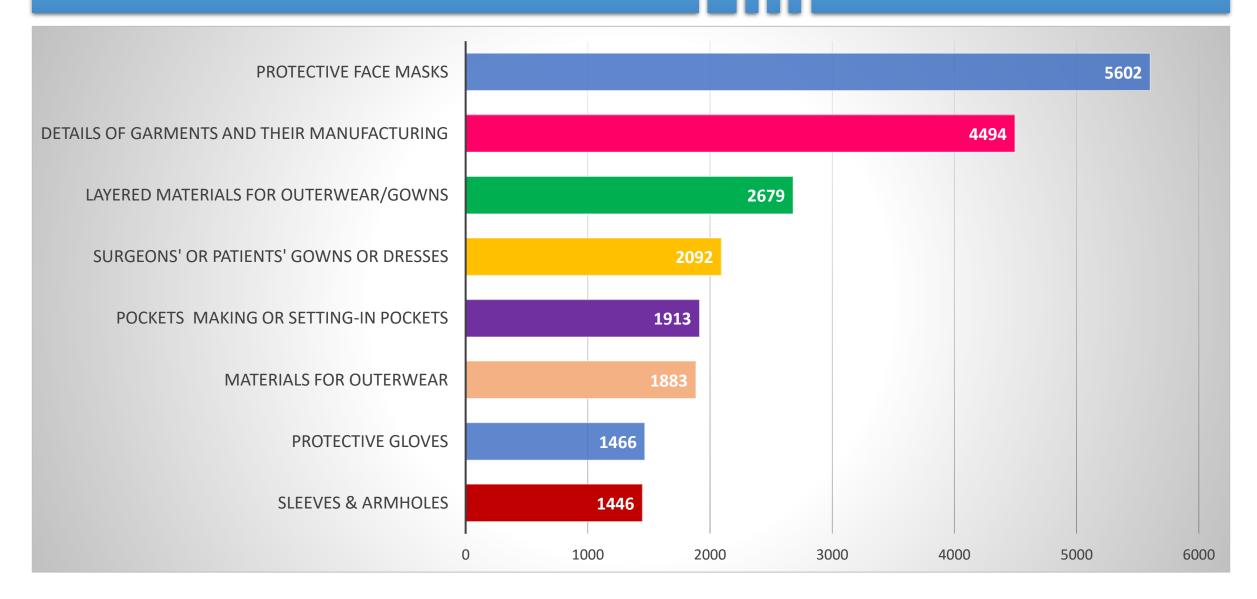


Top Inventors of 2020

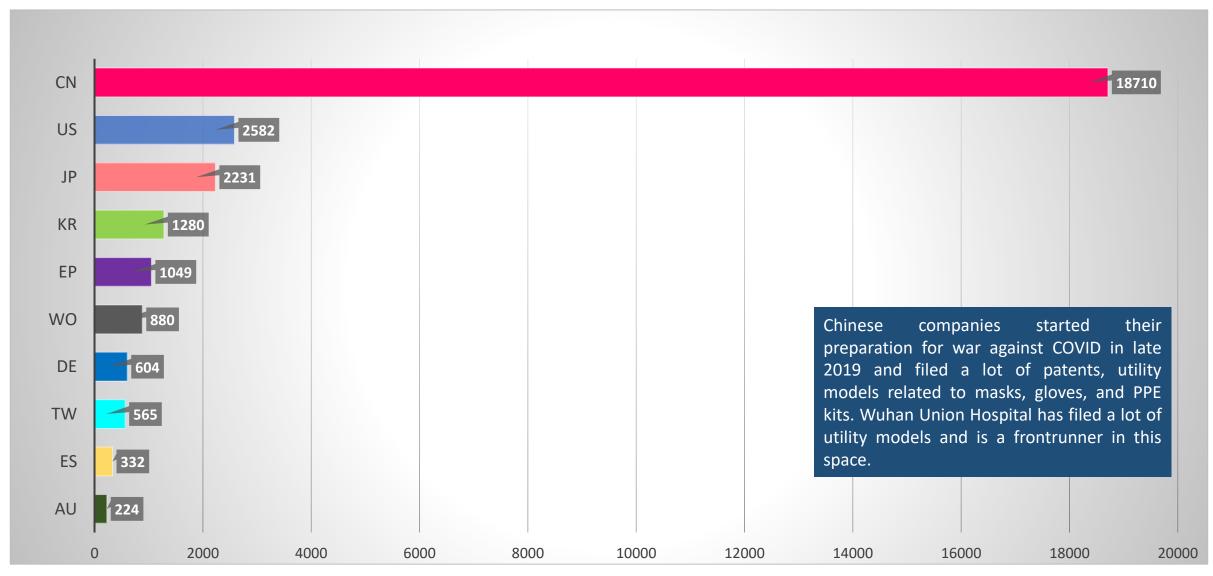




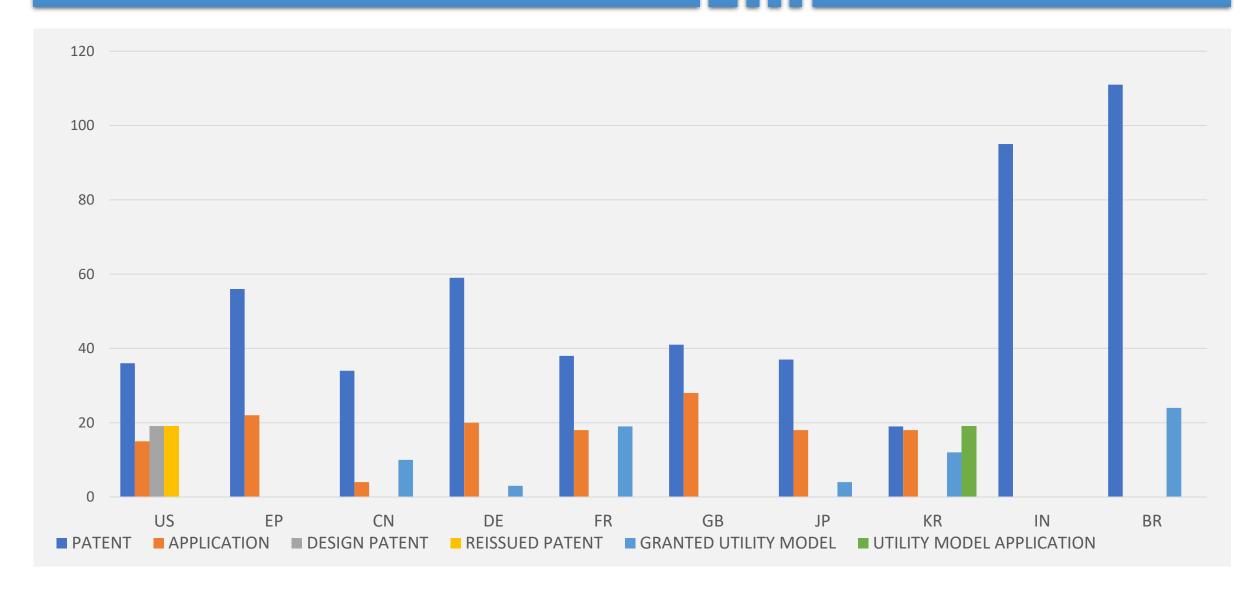
Key Technologies



Publication Countries



Time to Grant (months)



International Patent Classification



Application Filing Year Map

	NIKE	ЗМ	Haier	TORAY Innovation by Chemistry	N A A A	THE NORTH FACE	adidas	COSMO Lady	GUNZE SPORTS — JAPAN —
2020	70	3	0	9	44	0	5	3	2
2019	80	11	12	19	21	23	12	49	5
2018	126	43	92	21	0	19	8	1	3
2017	94	8	0	6	0	4	12	0	7
2016	63	6	0	8	0	1	8	0	2
2015	16	25	0	8	0	9	4	0	23
2014	18	8	0	1	0	0	1	0	0
2013	19	5	0	0	0	0	1	0	0
2012	1	0	0	0	0	0	1	0	0
2011	0	0	0	0	0	0	0	0	0



Jurisdiction Coverage Map

	NIKE	ЗМ	Haier	TORAY Innovation by Chemistry	N A A A A A A A A A A A A A A A A A A A	NORTH FACE	adidas	COSMO Lady	GUNZE SPORTS — JAPAN —
Australia	4	1	0	0	0	0	0	0	0
Spain	0	0	0	1	0	0	0	0	0
Taiwan	18	6	0	5	0	3	0	0	0
Germany	2	0	0	0	0	0	10	0	0
WIPO	53	4	0	12	0	8	1	0	3
Europe	121	18	0	11	0	8	10	0	0
Korea	24	11	0	5	0	7	0	0	0
Japan	27	15	0	23	0	6	6	0	44
USA	153	28	0	7	0	17	18	0	1
China	85	24	104	7	65	10	8	53	2



Technology Areas Covered by Top Players

	NIKE	3M	Haier	TORAY Innovation by Chemistry	THE STATE OF THE S	THE NORTH FACE	adidas	cosmo Lady	GUNZE SPORTS — JAPAN
New Shape of Face Mask	0	0	0	0	0	0	0	0	0
Fibrous or filamentary layered clothing	13	0	0	3	0	15	0	0	0
Cellular/ Honeycomb Type Clothing	13	9	0	5	0	17	4	0	0
Made of Chemical resistant material	0	0	0	4	0	0	0	0	0
Vests, jerseys, sweaters	99	0	0	0	0	0	2	0	0
To accommodate electronic equipment	37	0	0	0	0	9	4	0	0
Means for fastening to the user's head	0	29	0	0	0	0	0	0	0
Details of garments & of their making	13	0	0	3	0	0	3	0	3
Layered materials	44	0	0	4	0	17	5	0	0
Protective face masks	0	16	0	2	0	0	0	0	0



Key Takeaways

China holds more than 60% of the patent/publications/ utility model in this space primarily because of the efforts by Chinese Hospitals and associated research labs to create COVID compatible PPE kits, masks, gloves, etc.

During COVID times, Utility Models emerged as a boon for providing instant protection to inventions that were essential for the fight against COVID. More than 50% of the publications in 2020 are utility models.

Being a frontrunner in Sports Apparel Industry, Nike & Adidas continued their innovation programs and secured patent protection on technologies and materials relating to sports vests, jerseys, and the like.

Most of the inventions related to PPE kits and allied products are assigned to Chinese startups and Govt. aided Medical Research Labs/ Institutes

After China and USA, Japan has emerged as a hotspot for innovations related to general purpose garments. Along with many newcomers, Toray and Gunze are actively innovating in textile industry.



About IIPRD

IIPRD is a premier and well-established Intellectual Property (IP) Asset Management Firm focusing on Comprehensive Patent Support Services ranging from Patent Searching, Patent Prosecution/Preparation, to Litigation/Licensing Support Global Corporates and Law Firms. We can be reached at iiprd@iiprd.com and our details can be seen at www.iiprd.com. We can also be reached at +91-120-4296878 or + 1-202-600-4308

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