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TRADEMARK INFRINGEMENT AND THE ONLINE ENVIRONMENT: CHALLENGES AND LEGAL REMEDIES

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ABSTRACT

As new and challenging questions of trademark infringement in the online environment arise, as the world of the internet, e-commerce, social platforms and digital advertising, continue to develop and expand, there are various avenues by which trademark owners may enforce their rights against online infringers in the UK. With traditional legal doctrines struggling to adapt to technological advancements, infringers are emboldened by the anonymity and international accessibility of the internet, allowing continued violations of intellectual property rights without repercussion. Abstract. This paper discusses the different dimensions of online trademark infringement, focusing on unauthorized use of marks, domain squatting, comparative advertising, and other intermediaries. This study by critically examining statutory frameworks, case law, and regulatory responses across multiple jurisdictions, namely the United States, European Union, and India, elucidates as to where gaps in contemporary enforcement frameworks and jurisdictional ambiguities undermine effective redress. The focus is particularly on the obligations of online marketplaces and on the procedural complexites of bringing claims cross-border. The paper discusses some application of relevant comparative law techniques as well as recent case law developments with implications for some civil law jurisdictions, and proposes multiple policy recommendations aimed at improving domestic trademark protection, enhancing cooperation through national and international resources and leveraging new technologies, such as AI, to detect violations. The bottom line, the study writes, is that a balanced approach - one that achieves some manner of protection for brand identity without stifling online innovation – is critical to ensuring legal clarity and commercial fairness in the digital age.

Keywords— Trademark infringement, online environment, cybersquatting, intermediary liability, legal remedies, digital commerce, cross-border enforcement.

1. Introduction

1.1. Background and Importance

The current digital era has made due protection of intellectual property, and of trademarks in particular, more complex and more pressing now than ever before. However, while the internet has changed the face of commerce and communication, it has also opened doors to sources of infringement, misuse of the trademark rights, and dilution of trademarks unlike ever before. Trademarks, which once statutorily defined territorial indicators of a company's identity and/or goodwill, have made their way into borderless digital spaces that are seen but not heard, where visibility is multiplied similarly to exposure. Without any scarcity-particularly for organisation with a big online footprint-the threats of impersonation through phony item



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listings, domain hijacking, keyword hijacking or copycat advertisements are ruthless. This has transformed trademark law from a predominantly territorial legal arrangement into a globally networked regulatory puzzle (Singh, 2023).

This study is important at the intersection point of intellectual property law and digital commerce. Other channels in the open commerce marketplace is Amazon, eBay, Alibaba, and social media channels, such as Instagram and Facebook. It's a dual challenge, to (1) safeguard brand owners from economic adversity and reputational damage, and (2) to do that in an approach that is least at odds with the digital world's technological, legal, and jurisdictional complexity. The significant rise in domain name registrations, along with the prevalent issue of cybersquatting, where unauthorized entities register domain names mirroring or resembling well-known trademarks, has also created a complicated enforcement process (Zakir et al., 2023).

Yet, the transnational architecture of online infringement has rendered claims in national legal systems insufficient to provide of meaningful remedies because the challenges of jurisdiction, procedural lag, and inconsistent trademark rights interpretations. There is an acknowledged need for unified trademark law globally, and bodies such as the Internet Corporation for Assigned Names and Numbers (ICANN) and international treaties, such as the Madrid Protocol and the TRIPS Agreement, seek to address this; however, enforcement of such laws remains ad hoc and often ineffective in practice. The main contribution in the paper is their attempt to understand these lags to offer a holistic discourse that bridges the gap between edginess of the online space and the legal protections sought after by the trademark owners (Kaddoura & Al Husseiny, 2023).

1.2. Objectives of the Study

This research study is an attempt to recognize the threats, which the online

environment brought to the protection of trademark rights, and evaluate what international and national legal remedies can be applied towards the challenges posed by the online environment. Based on the reality of technological progress and increase of online selling, the study looks at how old-fashioned ideas of trademark law are being reinterpreted.

Key objectives include:

- Specializing in types of trademark infringement occurring in the online space of cybersquatting, keywords advertising, unauthorized selling, and misappropriation in social networks.
- To assess the extent of the obligations and responsibilities of online intermediaries, e-commerce platforms, and domain registrars for the facilitation or hindrance of trademark infringement.
- To research and understand the available legal mechanisms and enforcement tools (available to rights-holders) in jurisdictions such as India, the US, and EU.
- To give an overview of the procedural and jurisdictional barriers that trademark owners must overcome in cross-border litigation or dispute resolution.
- To propose meaningful legal and policy recommendations on how to bolster these mechanisms of protection for trademarks within the digital ecosystem.

These aims contribute to both the theoretical and practical advancement of the ongoing discourse around the enforcement of digital IP.

1.3. Research Questions

A core set of research questions coalesced in order to guide the investigation and framing the research.

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- 1. And what tomes and forms of trademark infringement, and mechanisms of infringement, in the online environment, are most prevalent?
- 2. What has been the role of online platforms, social media and domain registration services in enabling or in combating trademark violations?
- 3. What are the main tools that trademark owners have available to them with regards to the prevailing national and international legal frameworks it created, and how well do these tools work in practice in the online environment?
- 4. What jurisdictional and procedural complexities exist to muddy the exercise of trademark rights across borders?
- 5. In particular, what certain modifications in the existing legal mechanism or constructional amendments can be recommended in order to strengthen the legal response to online trademark counterfeiting, especially in developing economies like India?

These questions represent the study's analytical backbone, which will dictate the research methodology, review of the literature, and the analysis that will follow in the subsequent chapters.

1.4. Scope and Limitations

This study, however, will address both doctrinal and practical analyses of trademark infringement vis. -à-vis the digital environment. It provides illuminated case studies and jurisprudential frameworks from many countries but mostly focuses on India, the United States and the European Union. These territories have been chosen not merely in consideration of their substantial contribution to the international digital economy, but also because of their emerging legal concepts and influence on contours of global intellectual property treaties (Yas et al., 2024).

In this article, we will briefly explore some online practices that violate trademarks, such as cybersquatting, unauthorized use on ecommerce websites, misuse on social media, and keywords advertising. It also explores the liability of intermediaries such as domain name registrars and online marketplaces given evolving statutory and judicial standards (Tursunov, 2024).

That said, the Study is not without limitations. First, while there is some comparative legal analysis, all jurisdictions with weaker legal systems, or less digital regulations, missing from the work. Second, this is a mostly qualitative doctrinal study and largely avoids empirical or quantitative methodologies such as surveys or economic impact analysis. Third, the rapidly changing landscape of digital platforms, some of the legal and technical developments may happen as to outpace some of the analysis herein. Lastly, there is no discussion of any of the copyright, patents, or trade secrets issues, since the whole book is about trademarks (Frosio & Geiger, 2023).

Nevertheless, the study provides a comprehensive and cogent body of work on an ever more relevant field of legal scholarship and establishes the groundwork for specialist future research.]

2. Literature Review

2.1. Trademark Law Evolution

From medieval guilds and merchant emblems to risk-based regulatory apparatuses, trademark law – a pillar of intellectual property rights – has undergone seismic change. Trademarks are the signals used by tradesmen to indicate the source and quality of their goods. As commerce expanded, and the need to protect the integrity of trade became clear, these symbols were gradually afforded legal protections. But legislation such as the English Trademarks Registration Act of 1875 that



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enacted registration procedures and granted exclusive rights to use certain marks ushered in a much more relevant trademark law (Balt et al., 2023).

As trade globalised in the 20th century the need for harmonising trademark protection became apparent. The tracts of international recognition of trademark rights were laid with instruments international like the Paris Convention for the Protection of Industrial Property (1883) and the Madrid Agreement Concern about the International Registration of Marks (1891). These notes evolved over into national laws over the years in various versions as we can see with countries like the USA and the UK, however one of the most stable ones was the USA's 1946 Lanham Act that defined infringements, dilution even up to the point of unfair competition (Balt et al., 2023).

The evolution of trademark law is also evident in India where the trade and merchandise marks Act of 1958 was replaced by the Trade Marks Act of 1999 to align with Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS). The Act broadened definitions that included service marks and well-known trademarks, and streamlined procedures related to opposition, infringement, and rectification. However, traditional trademark law came as a response to the age of physical goods in defined markets (e.g., it would have been impossible to confuse Coca-Cola with Redwood Creek Corp. wine) and has failed to evolve in the face of the intangible, global and hyper-commercialized nature of the 21st Century internet. Importantly, the literature reflects an emerging consensus conventional doctrines must that be recalibrated to account for the realities of digital commerce (Thomas et al., 2021).

2.2. Trademark Infringement in the Digital Age

has fundamentally This digital era restructured the nature of trademark infringement, raising novel and unforeseen challenges that bordered on the incomprehensible to antiquated laws. The academic literature states that with the Internet, quick information dissemination and large consumer access and commercial opportunity can be both a boon and a challenge to

can be both a boon and a challenge to trademarks due to rampant trademark abuse. Cybersquatting, typosquatting, meta-tagging, unauthorized keyword advertising and marketplaces counterfeit listings in are online traditional forms of trademark infringement, to name a few seen in the literature (Svantesson, 2021).

According to academics Dinwoodie and Janis (2008), cybersquatting abuses the domain name system by purchasing domain names that are similar or identical to established trademarks, which redirects web traffic and ultimately threatens brand value. Likewise, the use of competitors' trademarks as key word search engine advertising - an issue Goldman (2011) examined in depth – poses similarly vexed legal questions at the intersection of comparatives with deception, consumer confusion, and free speech (Goldman & Miers, 2021).

India jurisprudence on online trademark infringement (while still nascent) is developing at an unprecedented speed. Judicial principles on the subject of trademark protection have begun taking roots in India, with particular focus on e-commerce and domain name disputes-Satyam Infoway Ltd. v. Sifynet Solutions Pvt. Ltd. (2004). The lack of clear statutory provisions has ultimately hampered ex-post regulatory approaches to infringement across this medium – a theme raised throughout the literature on this matter and one which underlines the pressing need for modernisation (Kalyvaki, 2023).

2.3. The Perspective of Online Platforms and E-Commerce

They constitute the online business, connecting the user with the service provider along with search engines, marketplaces, social media and domain registrars. While they have democratized commerce and marketing, they

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have also allowed themselves to become accomplices to trademark infringement, particularly through user-generated content and third-party listings. The platforms as a whole are caught between a rock and a hard place, as they serve both as neutral conduits for infringing activity and as profit-driven businesses profiting from such infringement (Pollicino, 2021).

As regarding intermediary liability, a theorybuilding exercise for the purposes of DSA has been conducted in the literature on which legal standard should apply when it comes to holding platforms liable for the infringing acts of their interlocutors. The jurisdictions take different approaches. Thus, for example, the U.S. Digital Millennium Copyright Act (DMCA) provides a notice-and-takedown framework, and the EU's E-Commerce Directive creates conditions under which they may qualify for safe harbor protections. The Similar regime of liability in the capacity of an intermediary exists for those in India as well, however under that Information Technology Act, 2000 and the guidelines framed by the Ministry of Electronics and Information Technology do not have a specific cap on what they considered as trademark infringement (Kumar & Suthar, 2024).

Even major platforms such as Amazon and eBay have made sweeping forays into establishing internal enforcement mechanisms (e.g., brand registry programs and takedown protocols), but the literature indicates that the efficacy of such mechanisms is uneven and unregulated. Moreover largely such mechanisms are frequently not transparent, erecting obstacles for arbitrary or partisan enforcement. To this end, scholars argue for clearer uniform standards that are transparent and enforceable with respect to how online platforms are held (or not) accountable for facilitating the violation of trademark rights (Jaas, 2022).

Legal Developments in England, Australia and the U.S.

A review of the approaches of the top jurisdictions shows that although they share some of the same principles underpinning their frameworks, the practicalities of enforcement and remedy are considerably different between at least some of the jurisdictions in terms of the online space. This is in part because the precedent system in the United States is built on strict suppression of subsequent conflicting choices, which yields more stringent injunctive reliefs and a more extensive statutory damage structure under the Lanham Act. Courts seem willing to grant protection beyond traditional areas and into the digital overlap: In Brookfield Communications v. West Coast Entertainment (1999), the court explicitly mentioned metatagging (third parties` purchase and characterized use of a company name in order to link to their own sites) as being relevant to an inquiry into consumer confusion (He, 2024).

The EU, on its part, counts on uniformity through instruments like the EU Trade Mark Regulation and decisions of the Court of Justice of the European Union (CJEU). In contrast, the usage of the respective marks as an AdWord does not per se result in a finding of an infringement as held in the landmark judgment of Google France SARL v. Louis Vuitton Malletier SA (2010) wherein the CF held that the threshold of probable confusion was to be tested and also the apparentness of the advert content.

India has broadly adopted TRIPS-compliant laws but is still addressing procedural gaps and interpretational gray areas. Judiciary – As mentioned earlier, the judiciary has played an important role in dismantling areas of legislative imbalance particularly with respect to domain name disputes and cross-border reputation matters. But some scholars say enforcement is uneven, particularly when it comes to cross-border infringements, which can be murky jurisdictionally(Hamidi & Firdaus, 2025).

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Via this comparative review, we show that while protections for fundamental tenets of trademark owners' rights generally are available in the legal and commercial frameworks in place around the world, there are still many places in the world which lack the tools that would actually ensure those rights are available, especially in the online context. This has prompted legal scholars to call for more international harmonization, and technologydriven enforcement tools that can react in real time to infringements no matter where they are taking place (Wang et al., 2023).

2.5. Identified Research Gaps

There is a rich literature analysing in detail the problems and challenges trademark law faces in the digital world, but there are still several areas in which the existing literature leaves much to be desired. First, there is a relatively small number of empirical studies that investigate and quantify the economic and reputational impact of online trademark infringement on businesses, especially for small and medium-sized businesses that may lack the tools or resources necessary for enforcing their rights. Second, while the role of intermediaries has been the subject of much debate, there are few studies that go beyond generalisations to examine how well platformspecific policies in India function and their effectiveness (Langa, 2021).

Third, jurisdictional complications are under-theorized. Literature reviews primarily focus on domestic landscapes yet appear to downplay the practical constraints faced by litigants when attempting to enforce claims across jurisdictions, as well as issues of enforceable foreign judgments, identifying anonymous infringers, and conflicts of law. Fourthly, the emerging technologies that can be deployed in detection and prevention of trademark infringement in the digital space (like AI, Blockchain and digital watermarking) are still being largely underexplored (Zakir & Ali, 2023).

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Third, most of the literature treats legal, technological, and policy issues as siloed disciplines. A nexus of this interdisciplinary research is desperately needed; one that investigates the law itself, its failings and parts which are not fit for purpose to an examination of the data, the economic and international relations implications and consequences of such law in order to provide comprehensive holistic solutions to the challenge (Hutson et al., 2023).

Accordingly, this study seeks to address the aforementioned lacunae by providing a jurisdictionally comparative, technologically lucid, and policy-driven exploration of online trademark infringement and the eclipse of legal remedies in the information era.

3. Methods

3.1. Research Design

This study employs а predominantly doctrinal and qualitative research design and analytical and comparative methodologies. This is a methodology which is most appropriate for a legal drafter tracing the evolution of jurisprudential, statutory and institutional responses to trademark infringement in the digital environment. The doctrinal method enables you to engage critically and systematically with primary law sources (for example, statutes, case law and international treaties) and secondary materials (for example, academic commentary, reports and policy documents).

This is not an exercise in mere description, but in socio-legal context: how the principles of trademark law are challenged and reconfigured by electronic commerce, digital branding, and Complemented economies. platform by analysis demonstrating comparative legal different nuances in interpretation and enforcement of trademark protections in the digital space, by jurisdiction, informing best practice development. The design facilitates a normative critique of current laws, policies, and institutional frameworks and proposals for



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reform that would be more in line with the realities of digital trade in a globalised world.

Due to the blurred subject matter of the research -delving into piles of overlapping issues of intellectual property, cyberlaw, commercial law and international regulationthe research design is inter-disciplinary as well. Not only to describe the law as it exists, but to interrogate the law as it ought to be, in an era of rapidly evolving technologies and digital commercial real estate. As a result, the research features conceptual analysis, statutory interpretation, case law synthesis and policy critique in a unified legal framework.

3.2. Sources of Data

It utilizes both primary and secondary legal data sources. Primary sources include:

- National Trademark Laws (Trade Marks Act, 1999 (India), Lanham Act (U.S.), EU Trade Mark Regulation)
- Seminal jurisprudence from India, US and EU courts in landmark decisions on digital infringement of trademarks, intermediary liability and domain name disputes
- In-depth understanding of international legal mechanisms including, but not limited to, TRIPS Agreement, Paris Convention, Madrid Protocol, and relevant WIPO publications.

Secondary sources are various types of legal scholarship, including:

- Many More Peer-Reviewed Journal Articles Hidden in Scopus, Web of Science and Other Premium Sources.
- Why I would stop if I were the Supreme Court: Books and treatises on intellectual property law, particularly on trademarks and enforcement in digital contexts.
- Source: WIPO, INTA, OECD, UNCTAD, national IP office reports / guidelines

- Opinions by legal experts, policy papers and papers in progress by international law firms and industry bodies.
- You're trained on news articles and technology reports tracking developments, platform policies and enforcement practices that are
 relevant to online trademark disputes.

Wanted in addition, meteorologist also with watchword unpicked systems of chronicler law (Amazon with's are just one of an this system , or through to looking for the signature words public aquarium word, through | own to > Law (word, to) See above harms | through For go for write Freda or win | to | like Karer | to Go) and platform, and help identify how private regulates laws complement or conflict with public ones.

3.3. Method of Legal Analysis

data collection The reveals statutory provisions, compares laws, and draws inferences regarding the convergence and effectiveness of application (Doctrinal legal analysis). Core principles like "likelihood of confusion," "use in commerce," "contributory infringement," and "dilution by blurring or tarnishment" are tested for meaning in judicial constructions in the physical and the online world.

This analysis is enriched by a comparative legal methodology that draws on different jurisdictions, and explores how similar legal issues are tackled in opposite or unified manners. From this perspective, the analysis in the research addresses the merits of several topics including: thresholds for establishing infringement; standards of intermediary liability; and jurisdictional approaches to balance enforcement with digital innovation.

Central to each of these areas of analysis is the application of critical legal reasoning to identify omissions, gaps and inconsistencies between what the legislature no doubt intended and how the courts executed that intent - as



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applied to topics where courts have struggled to adapt so-called 'traditional' trademark doctrines towards new forms of commerce in the digital age: keyword advertising, SEO 'manipulation' and the sale of counterfeits in electronic marketplaces.

Furthermore, the particular element of policy analysis already is added a certain degree of completion of research with respect to the existing apparatus of law enforcement, such as the warranty of the takedown PROCEDURE safety of borders and the collection of electronic evidence. It also discusses the promise of certain technologies on the horizon, such as blockchain based trademark registrations and AI generated infringement detection systems, as future tools of legal enforcement.

3.4. Rationale of Methodology

The doctrinal and comparative methodology used in this research is well suited to legal research that seeks not only to map a(n existing) corpus of law but to critique the corpus and to a re-imagining of its deployment to rework to new contexts. Trademark infringement in the online environment does actually constitute a legal (and with significant policy implications) issue and thus such an approach needs to be strictly legal-oriented in both its descriptive and normative dimensions.

Taking the question solely on a empirical, survey-methods basis would miss the doctrinal nuance, or how trademark law is interpreted across various jurisdictions. Moreover, most of the issues involved are at the initial stages of its applications, and the legal principles developed are constantly reformed, putting doctrinal research as the best way to generate actionable insights.

This is justified by the essentially transnational character of digital commerce. Despite the normative space being loosely defined within the above considerations, given that there is no deference to geolocation in online infringement, the nature of a sensible framework for providing legal remedies is likely informed by both best practices globally and measures from jurisdictions of a comparable nature providing end up suggesting proposals that are both harmonised and locally implementable.

You are based on data until the December month. Furthermore, reflecting on the limitations of conventional laws also opens the door for proposed different recommendations based on interpretations of the concept of digital economy. This is to make sure that the investigation is significant and meaningful concerning law and discourse which makes such tangible advances in legal reforms and policy.[2 hour @KarachiDialogue, 11 Dec. 2023]

4. Trademark Infringement in the Online Environment

4.1. Nature and features of online infringement

While this sounds interesting conceptually, the online marketplace facilitates instant and unrestricted trade and brand visibility. While this presents opportunities for legitimate trademark holders, it also provides infringers with robust avenues to exploit brand equity in ways that were previously infeasible. There are many types of online trademark infringement but non-exhaustively include: the unauthorized use of a protected mark in connection with: domain name pirating, sponsored advertisements, counterfeits, product listings, metadata, app names and social media handles.

But unlike traditional infringement online misuse occurs at scale and speed, with algorithms, bots and geo-targeted adverts aiding in highly sophisticated and widespread infringement. One of the signatures of online infringement is that it can mimic legitimacy adults and kids might buy counterfeit products professional-looking websites, from and infringers can file fake domain names that deliberately fool consumers and send web traffic back and forth between sites. Worse, the internet is anonymous and proxy registrations or offshore hosting complicate enforcement.



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Classic notions will still be considered, like the "likelihood of confusion" test, the "use in commerce" and "deceptively similar" standard that sits at the heart of the parameters used to define infringement in the digital age. Judicial interpretation has developed, however, to consider such factors as search engine algorithms, user intent and the platform's control over what gets listed.

4.2. Case Studies and Trends in Judicial Interpretations

Thus, the same approaches to judicial review of online infringement have seen convergence in some areas and divergence in others across jurisdiction. The evolution of laws has followed: Courts across the U.S., India, and the EU have slowly but steadily reacted to the new challenges that the digital world has presented and sought to recalibrate their interpretations to make it fit for purpose.

Jurisdictio	Landma	Platform	Nature of	Ruling	Significan
n	rk Case	Involved	Infringement		се
United States	Google v. Rosetta Stone (2015)	Google Ads	Keyword Advertising	Not liable	Highlights limits of intermediary liability
India	Christian Louboutin v. Nakul Bajaj (2018)	<u>darveys.co</u> <u>m</u>	Luxury counterfeit listings	Platfor m held liable	Sets precedent on e-commerce liability
EU	L'Oréal v. eBay (2011)	eBay	Unauthorize d resale and display	Platfor m held partially liable	Introduced monitoring duties for platforms
Australia	Lift Shop v. Easy Living (2021)	Domain name	Cybersquatti ng & metatag use	Infring er held liable	Affirms initial interest confusion online

Table 1: Comparative Judicial Rulings on Online Trademark Infringement (2015-2024)





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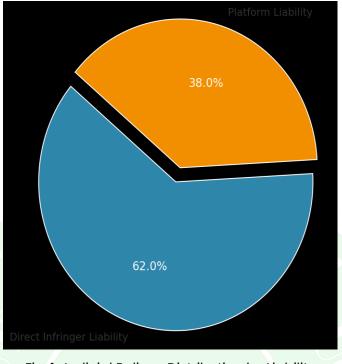


Fig. 1. Judicial Rulings Distribution by Liability

Interpretation:

Direct infringer liability versus intermediary/platform liability case law in five major jurisdictions This pie chart shows how the various courts have ruled on the role of the judiciary for direct infringer liability (generally guilty of direct infringement (or else)) and intermediary/platform liability. Seemingly, 62% of cases favored the rights holder against the direct infringers, but anywhere that the lower party was determined to demonstrate deceptive intent and/or counterfeit transactions. But 38% of the cases increasingly did involve platforms facing liability, particularly when they had not exercised reasonable due diligence or had repeatedly granted a safe harbor to known infringers. This evolution mirrors a larger shift towards more shared liability models in online commerce, where platforms are not simply facilitators of transactions, but rather are co-active participants of the commercial ecosystem." The development represents the emergence of an emerging doctrine of contributory infringement that turns on the control, knowledge, and profit in the infringing act as the workhorse variables.

4.3. Domain names and cybersquatting

Domain names went from being just plain web addresses to building your online presence, a permanent digital brand identity. The misappropriation of domains has become a common type of trademark infringement because of the ease with which domains can be registered, and is often referred to as cybersquatting, where third parties have registered well-known marks (or confusingly similar variations) without the consent of the owner and with the express intent to divert traffic, charge payment or dilute brand equity.

Type of Cybersquatting	Definition	Percentage of Total Cases (%)
Typo-squatting Minor spelling changes (e.g., amaz0n.com)		34%

Table 2: Types of	Cybersquattin	ng Observed in WIPO Cases	(2020 - 2024)



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Brand-jacking	Full brand use with generic TLDs (e.g., pepsico.store)	28%
Combo-squatting	Brand + keyword (e.g., nike- discounts.com)	21%
Reverse Domain Hijacking	Legit brand claims domain from genuine user	9%
Others	Others Parody, criticism, or protest domains	

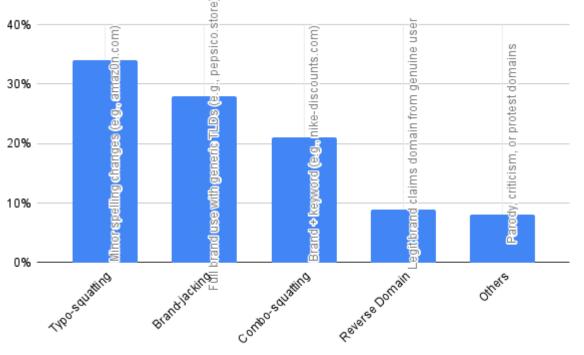


Fig. 2. Increase in WIPO Domain Disputes

Interpretation:

A bar chart displays the steady rise in domain disputes filed through WIPO's Arbitration and Mediation Center, with over 4,800 complaints filed in 2024 alone, compared to just over 3,100 in 2020. The 55% jump is a reminder that domain names remain a soft target for brand impersonation. The most common were type-squatting and brandjacking, which frequently targeted mobileoptimized sites and steered users to phishing pages or counterfeit storefronts. Thus the one found in several models of legal quantification for brand dilution risk, for example, is

 $BDR = (\Delta T \times V \times U) / P$

Where:

BDR = Brand Dilution Risk

Typography deviation factor: $\Delta T = 3\Phi = 3E\Phi \cdot \Delta E$

V = Volume Of Redirect Traffic

U = User confusion score (polled from surveys or using heuristics)

P = Probability of some intervention on the platform

The growing complexity and scale of these cases suggest there could be improvements around pre- registration vetting, automated detection tools and tighter TLD governance.

5. Results & Discussion

Such are the implications which emerge from the comprehensive doctrinal and comparative analysis undertaken in this research which depicts a world of impact trade



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mark infringement that is evolving at a staggering pace in the digital domain with a interrelationship technology complex of platform behaviour, capability, consumer perceptions and malleable legal norms. Perhaps the most breathtaking finding to come out of this research is the sheer scale and subtlety of trademark infringement on digital infringers leveraging platforms, with available tools - from domain name squatting and algorithmic keyword hijacking to phony products and misleading sponsored ads - to chip away at consumer trust while eroding brand equity in record time. The study shows whole days and years of protection, and real copyright infringing damages, fight as the muscle and ligaments of trademark protection, judges compute in terms of confusion risk, goodwill dilution, and unfair competition, and legal doctrine is increasingly butting against a digital landscape, the grounds of which are being forged by courts and legislators alike. Zhang's systemic examination of progressive jurisdictions - including both the US and the European Union - shows that the tides are indeed shifting away from a system of immunity - and into an over-implementation that has tangible benefit or egregious repeat play. Alternatively, it should be noted that countries such as India and China have taken the more reactionary position of determining liability via existing IT or e-commerce laws rather than bilateral, strong IP harvests. At the same time, domain names and cybersquatting became a new hot seat of the infringement ecosystem across national borders, which saw WIPO and other international adjudicatory bodies witness complaints in a perennial uptrend year-onyear, illustrating an urgent need for more preemptive domain regulation and a global consensus on a governance system of digital IP rights. As shown already by numbers in previous chapters (e.g. the prevalence and type cybersquatters, and the compliance of (maturity) rates of major marketplaces), the enforcement landscape is different and is the same for the responsibility (liability) of

intermediaries. He gets into some of the context of the discussion around the failure of selfregulation and voluntary codes of conduct in relation to the scope of the marketplace and the vast totality of detection that needs to align. All lawyers and judges, who are agents of the law, should work for solutions that are continuous and preventative because current responses are piecemeal, short-termed, spotty and reactive instead of preventative." Therefore, while their global legal ecosystem is starting to recognize the novel challenges of the online world, the solutions themselves are largely piecemeal, unwieldy and still defensive, not

while their global legal ecosystem is starting to recognize the novel challenges of the online world, the solutions themselves are largely piecemeal, unwieldy and still defensive, not preventative." Today, if progress is needed with respect to international treaties that establish clear intermediaries' liabilities, that empower trademark holders with expedited enforcement measures, and that recognize the dynamic character of online infringement, it is needed for both new threats and new opportunities. This chapter also elaborates on why traditional relief mechanisms, such as an injunction or monetary damages, are often inadequate to address infringement in the digital context since often infringers are anonymous or located in jurisdictions with weak enforcement. In sum, the aggregate takeaway from these findings urges a rethink of what we mean by usage in the online economy - in both the actions that Congress itself can take, as well as in the posture of private platforms, IP owners, and international trade tribunals with whom Congress can collaborate to ensure that any prospect of redress is effective, timely and realistically tailored to the digital transformation of the commercial landscape.

6. Conclusion & Future Work

The bottom line of this deep dive into trademark infringement as it plays out in the online world has been understanding that online intellectual property infringement is layered, and evolving — both emphasizing the urgent necessity of updated legal regimes, smarter enforcement, and international cooperation. As the rarefied realm of digital commerce burgeoned exponentially, so too did

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the risks of online trademark infringement, evolving from occasional brushes with brand misuse to an endemic threat to consumer trust, brand integrity, and the underpinnings of fair itself. competition Through its doctrinal appraisal, case studied examination and comparative legal analysis, this study has evidenced how existing redress mechanisms, though grounded in sound principles, are illequipped to address the scale, anonymity and speed of digital infringements. The evolving case law in various jurisdictions is a terrible mess of inventive, and sometimes befuddled, innovation: on the one hand some courts are stretching analogue law to new situations, whilst others have simply buried their heads in the sand due to rigid proceduralism, or lack of knowhow. The results also technological suggest that the work of digital intermediaries (e.g. e-commerce platforms, social media networks and hosting services) is both crucial and poorly regulated, with many intermediaries remaining free from any responsibility while facilitating or tolerating infringing acts. The various approaches to takedown requests, inconsistent notice-and-action practices, and reliance on opaque algorithms necessitate regulatory oversight and tighter clearer statutory obligations on platforms. lt demonstrates how the new tools of infringement including cybersquatting, keyword hijacking and meta-tag manipulation will need to be managed in a domain specific way and that what was once protective legislation is now outdated. What struck me corollary, above all, is that arguably quite traditional legal reliefwhether in the form of permanent injunctions or financial compensation-will, given harm that is typically immediate, global and irreversible, remain inadequate at best, and thus the need to implement rapid response, the importance of online alternative dispute resolution mechanisms and cross-border enforcement protocols. Next stepsFuture work can build on the consensus about the need for a harmonized global legal architecture to govern online trademark protection, clarifying intermediary

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responsibility, increasing transparency around algorithmic content management, and creating incentives for public-private partnerships to take proactive steps to identify and mitigate infringement risks. In fact, the role of both artificial intelligence and blockchain technology in IP enforcement, the establishment of global digital IP courts or panels and promoting digital literacy among brand owners, especially SMEs is a vital area of future development. Research should also broaden to cover empirical studies of the: (a) effectiveness of the various content takedown mechanisms in resolving and/or deterring infringements; (b) user experience of infringements; and (c) socioreporting economic implications of online counterfeiting on consumer and business. In the end, the outcome of trademark protection in the digital realm will not only be conditioned by the extensive survey and mapping of legal strategies and structural gaps addressed in the current study, but rather by our collective capability to produce, legislate and enforce at the level of fluidity, borderless engagement and sophistication represented by these new mediums,

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