INDISCERNIBLE LOGIC: USING THE LOGICAL FALLACIES OF THE ILLICI T MAJOR TERM AND THE ILLICIT MINOR TERM AS LITIGATION TOOLS

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I. INTRODUCTION

Baseball, like litigation, is at once elegaint its simplicity and infinite in its complexities and variations. As a result of its complexities, baseball, like litigian, is subject to an infinite number of potential outcomesBoth baseball and litigation are complex systems, managed by specialized sets of rulesA210050v48011 Tm ()w5o a -1

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anyone I have ever seen. Yet, part, he was able to do this because he knew about the invisible rules of baseball.

These invisible rules of basebedo not appear anywhere in the Official Rules. They are the principles that allow players to connect the "official" substantive rules that the players, coaches, and umpires rely on to determine whether a player is "safe" or "out" with their ability to successify execute a play to achieve a result of "safe" or "out" on the field. For example, Jason knew that if one of his teammate sould tag the runner with the ball while he was between third based home plate, the runner would be out. That truth isnade clear by Rule 7.08. However, when he would make a play from cenfeed, this rule was not the only rule he was thinking about. Immember Jason, more than once, fielding a ground ball while watching on his peripheral vision as the runner rounded third base. Jason would pick up the ball with the same disinterested, aloof bodydaage that he exhibited when he trotted out to center field. He wanted to look casual and He might even, subtly, fumble the ball for an lackadaisical. instant. He knew that the third base coach was watching him intently. He knew that the runnet third could only be thrown out if the third base coach made threong decision and told the runner to run from third base to homeapple. He knew that nothing in the Official Rules of Baseball told aefider how to ensure a third base coach makes the wrong choice **b**q vising the runner to run for home and expose himself to being thrown out by an accurate and powerful center fielder.

This invisible rule of baseballthat a center fielder cannot throw out a runner if the runnestays on third butan throw the runner out if he makes a run for home plate, cannot be found in the Official Rules. However, a player ho wants to really master the game of baseball will find that hese invisible rules appear everywhere, filling in the gaps between the Official Rules and

^{9.} Many commentators have observed a set of unwritten rules that are an integral part of baseball. See, e.g. JERRY REMY WITH CORY SANDLER, WATCHING BASEBALL: DISCOVERING THEGAME WITHIN THE GAME 201 (2004) (discussing one of the unwritten rules); BEBALL STRATEGIES YOUR GUIDE TO THE GAME WITHIN THE GAME 207 (Jack Stallings & Bob Bennett eds., 2003) (discussing "one of the unwritten rules of baseball strategyä); DUTMAN, THE WAY BASEBALL WORKS 102 (Dinah Dunn & Heather Moehn eds., 1996) (describing one of the maxims in "thebook'—a collection of unwritten rules that have been passed down through the generations").

^{10.} Official Rulessupra note 4, at 7.08.

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arguments. Even so, they have a sense of what logic is. In fact, it might seem to lawyers that these rules of logic come naturally. The rules of logic are, in a sense stinctive to most lawyers. They are easy to master, respected by rtso and essential to effective advocacy.

Logic has been studied since **lea**st the time of Aristotle¹. The modern rules of logic have been forged from the more than 2,000 years of philosophical struggle to determine just what logic is and why it is so important². The course of that struggle has

\$2prE19e7[(9)a6(e), a pupil of Aristotle, modified and developed Aristotelian logic in several ways. See WILLIAM KNEALE & MARTHA KNEALE, THE DEVELOPMENT OFLOGIC 111 (1962). He developed various doctrines to prepare the ground for later classical logic dardeveloped a doctrine of hypothetical arguments to prepare for Megarian-Stoic logEcoCHENSKI, supra note 11, at Bloged&Bistoterie@state=46areYEs(t)Es(a)p=45(t)=30Eab(sto)-5(r)1, 7((fied)-5 fa pu)II-1(op(sto)sit(Prio)r An)-5(e

While Aristotle has been designated the first thinker to devise a logical system, certain logical inferences have b applied before Aristotle, though not formally articulated. Aristotle himstecredited Zeno of Elea (490-430 B.C.E.) with being the "founderof dialectic." I.M. BOCHENSKI, A HISTORY OF FORMAL LOGIC 29 (Ivo Thomas ed. & trans., 1961). Aristotle's mentor, Plato, was the first to grasp and formulated ar idea of logic and the universally valid law. Id. at 33. Universally valid law is the idea that fundamental principles of logic are worldwide and unchanging; "no formal logic is possible without the notion of universally valid law." IdBuilding on the ideas from Zeno of Elea and Plato, Aristotle combined logical form, opposition, and conversion to form the syllogism, Aristotle's "greatest invention in logic." Peter King & Stewart ShapiroHistory of Logic in THE OXFORD COMPANION TO (Ted Honderich ed., 1995)available PHILOSOPHY 496, 497 at http://individual.utoronto.ca/pking/miscellaneous/history-of-logic.pdf. The syllogism, as formulated in AristotleBrior Analytics a part of his work known as THE ORGANON, consists of two premises and a conclusion occurrent occurr supraat 98.

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Instead, it focuses on the logical structure the argument and considers whether the form of the argument is reliable. Philosophy has demonstrated that togical form dictates whether the argument is one that is deductively valid. The form determines whether it is an argumentative structure where the premises, if true,¹⁹ ensure the truth of theoreclusion. This is important because logical argument is about proper inference. When we make an argument, we lead the diverse of the structure of the step at a time, from

18. Philosophers have debated what logic is and what makes a study of logic "formal." "Logic, in the most extensive sense in which it has been thought advisable to employ the name, may be considered as the Science, and also as the Art, of Reasoning." WATELY, supra note 13, at 1. "Formal Logic is a prop deutic which is abstractly concerned with consistency of reasoning without any reference to the truth thre falsehood of the accepted premisses, [sic] or to the knowledge or the ignorance of the reasoneriBstrate with KLEIN, supra note 16at 157. "Pure or Formal dgic is the science of the necessary laws of thought. It https://www.commons.com/listence/listen

^{17.} One writer aptly refers to formal logic in legal argument as the "architecture of argument." See James C RaymondThe Architecture of Argument 7 THE JUD. REV.: J. OF THE JUD. COMMISSION OF N.S.W. 39 (2004) (Austl.), available at http://www.benchandbarinternational.com/files/The Architecture of Argument

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one truth to the next, and ultimately to our final conclusion. However, if an argument's structure is bad, then there is no reason for the listener to infer one tru**f**hom another, and therefore, there is no reason to take "the next pt" Without some reliable reason to go from one step to the next per is no reason to believe that the argument compels a particular conclusion. The proper inference of one step in the argument from the previous step is essential to the reliability of the argument's conclusion.

It is a little like giving some ne directions from the eastbound interstate expressway exit to the station in my hometown. The driver should exit to the right, stoppi the stop sign, turn left at the stop sign, travel approximately on meile, stop at the intersection but do not turn, travel approximately 00 feet and turn right at the gas station. If I was to articulate ose directions to stranger in the Static curTj ,(e)]TJ argu mipsu]TJa(t)4()]Iye

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Deductive logic is the "logic of necessary inferencte." In deductive logic, the argument rfoed claims its conclusion is necessarily supportedly its premises². That is, indeductive logic, if the premises are true, and therefoof the argument is valid, then it is logically impossible for the conclusion to be falsef course, an argument that can be demonstrated be logically valid makes for powerful advocacy. Conversel an argument that can be demonstrated to be logically value.

Deductive arguments can be organized into logical structures called syllogisms. The syllogism been described as "[t]he most rigorous form of logicand hence the most persuasive.'A

22. COPI& COHEN, supra note 19, at 26. Deductive logic is different from inductive logic. Inductive logic, involves an argument that claims its conclusion

^{21. &}quot;A deductive argument is an arguntein which the arguer claims that it is impossible for the conclusion to be false given that the premises is true." PATRICK J. HURLEY, A CONCISE INTRODUCTION TO LOGIC 31 (Steve Wainwright et al. eds., 9th ed. 2006). In the context of legal proof it has been said that "[i]nference is thesence of proof; proof is good or bad according to the quality and number of inferences drawn from facts to conclusions." COVINGTON, supra note 20, at 2.

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syllogism is an argumentative strure, made up of two distinct but related premises and a conclustonThere are different types of syllogisms²⁶ One common syllogism used in legal

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comply with this rule, the results an argument that suffers from the Fallacy of the Illicit Major Term or the Fallacy of the Illicit Minor Term. An explanation of what it means to "distribute" a term and which terms are the "major term" and "minor term" in any given syllogism will demonstreathow to spot this fallacy and why it is the hallmark of a formally invalid argument.

III. THE FALLACIES OF THE ILLICIT MAJOR TERM AND THE ILLICIT MINOR TERM

The names of these fallacies "Fallacy of the Illicit Major Term" and the "Fallacy of the Illicit Minor Term³⁵ are intended to capture the essence of withyese patterns of argument are inherently unreliable. While logicians have endeavored to name this and other fallacies in ways that are descriptive bese descriptions are bound by the unfamiliar nomenclature of formal logic. Accordingly, neither the then "illicit" nor the words "major term" or "minor term" will have immediate significant meaning to most lawyers or jurists. However, hese names and the fallacy they stand for make sense with an **enst** anding of some of the basic terminology and concepts of formal logic. Understanding this terminology begins with understanding the structure logicians use to evaluate the logical form f arguments: the syllogism.

Evaluating an argument's struct begins with subdividing the argument into components, and assembling those subdivisions into a uniform structure called allogism. Instead of using all of the precise words used in an argument, it is simpler and equally effective, to eliminate and paraphrase some of the words in the argument before arranging them in the syllogismit may even be possible to further simplify the argument by reducing some of those words to symbols. Furthermore, at times it is appropriate to add implied words into the framework of the syllogism to ensure consistency in the intended merginof the terms of the argument.

^{35.} These two fallacies are sometimescated generally as a Fallacy of Illicit Process.

^{36.} Examples of some formal logicabilacies include "Affirming the Consequent," "Denying the Antecedent," "Fallacy of the Undistributed Middle Term," "Fallacy of Exclusive Premises and the "Existential Fallacy." OPI & COHEN, supranote 19, at 246–49, 300–01.

^{37.} SeeCOPI & COHEN, supranote 19, at 12–19 (describing in detail the process of converting complex arguments or arguments with implied terms into syllogistic form).

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Ultimately, this process reduces the argument to a series of phrases or letters or symbols that repeet the essential components of the argument and the relationships between and among those components. This arrangement of components in a standard form is called a syllogism³⁸.

The form of a syllogism consists of two premises and a conclusion.³⁹ A premise is comprised of "propositions" which are used to support the truth of conclusion. Each premise consists of terms. For example, might argue, "All prosecutors are lawyers." This premise has two terms: "[persons who are] prosecutors" and "[persons who] are lawyers." If we add a second premise, "No public defenders are precutors," we see that it too, contains two terms: "[persons who are] public defenders" and "[persons who] are prosecutors." To complete the syllogism, we might attempt to add the following conclusion: "Therefore, no public defenders are lawyers." We could then arrange these two premises and the conclusion this way:

³⁸ Cf. F. C. S. SCHILLER, FORMAL LOGIC 222 (1912). ("Now, to put an argument in syllogistic form is to spriit bare for logical inspection. We can then see where its weak points must liet lifas any, and consider whether there is reason to believe that it is actually (materially) weak at those points.").

^{39.} SeeCOPI & COHEN, supranote 19, at 224.

Legal argument generally has three sources of major premises: a text (constitution, statute, regation, ordinance, or corract), precedent (caselaw, etc.), and policy (i.e., consequences of the decision). Often that major premise is self-evident and acknowledged by both sides. The minor premise, meanwhile, is derived from the facts of the case. There is much to be said for the proposition that "legal reasoning revolves mainly around the establishment of the minor premise.

SCALIA & GARNER, supra note 24, at 42 (footnote omitted).

Of course, some arguments a more to complex to reduce to a simple

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All prosecutors are lawyers. No public defenders are prosecutors. Therefore, no public defenders are lawyers.

Accordingly, we have crafted syllogism with three terms: "prosecutors," "lawyers" and public defenders." In a valid categorical syllogism, there must be a common term that appears in each of the two premises. This common term is called the middle term⁴². In this example syllogism, the term "prosecutors" is the middle term, since it appears in both premises. Additionally, we have names for the remaining two terms. The term that is the predicate of the conclusion is the "major term⁴³. The term that is the subject of the conclusion is the "minor ter⁴⁴. "Accordingly, the conclusion, "no public defenders are lawyers" identifies the predicate "public defenders" **abs**e major term and the antecedent "lawyers" as the minor term.

The Fallacies of the Illicit Minor Term and the Illicit Major Term focus on the two terms that ppear in the conclusion of the syllogism.⁴⁵ These fallacies result from the violation of the third law of deductive logic which touses on the requirements for the minor term⁴⁶ and major term⁴⁷ in a syllogism. The rule provides that if the conclusion "distributes" one of these terms, then the term must also be distributed in at least one of the premises. In logic, when a term is used in way that "refers to all of the members of the class" referenced by that term, that term is said to be "distributed.⁴⁸ For example, if one states that "all prosecutors

46. The minor term is the term that is the subject of the conclustme, e.g., JAMES H. HYSLOP, THE ELEMENTS OF LOGIC, THEORETICAL AND PRACTICAL 171 (Charles Scribner's Sons 1892).

47. The major term is the term that is the predicate of the conclu**See**, e.g, HYSLOP, supranote 46, at 171.

48. COPI & COHEN, supra note 19, at 189. See a Bit CHARD WHATELY, supra note 13, at 28 ("[A] term is said to be 'distributed,' when it is taken universally, so as to stand for every thing it is capable of being applied to; and consequently 'undistributed,' when it stands for a portion only of the things

^{42.} COPI & COHEN, supra note 19, at 225.

^{43.} Id.

^{44.} ld.

^{45.} The middle term is the subject of another, similar rule regarding distribution of terms. Violating thatule results in a **di**erent fallacy: the Fallacy of the Undistributed Middle TermSeeStephen M. RiceConventional Logic: Using the Logical Fallacy of Denying the Antecedent as a Litigation Tool, 79 MISS. L.J. 669 (2010).

Since putting people in categories is the gist of the argument above, the rule of logic that governs the distribution of the terms in the conclusion ensures the logicategrity of the conclusion. In order to ensure the integrity of the a conclusion, the term in the conclusion must be consistent timeir levels of distribution. If distribution is not consistent from the premises to the conclusion,

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IV. COURTSHAVE RECOGNIZED THEFALLACIES OF ILLICIT MAJOR AND ILLICIT MINOR PREMISES ASFALLACIOUS REASONING, AND REJECTEDTHESEARGUMENTS ASLOGICALLY INVALID AND UNRELIABLE

The logical Fallacies of the Illicit Major and Illicit Minor Terms are practical tools with utility for lawyers that go beyond their historical uses a theoretical tool of philosophy. Courts searching for theoretical justifation and a metalanguage for describing what is wrong with legal argument, have used deductive logic generally and hear formal logical fallacies specifically to analyze the valted of arguments and articulate what is logically right or wrong with them. For example, courts have employed the formal logical fallacies of Denying the Antecedent^{5,3} Affirming the Consequent⁴, the Fallacy of the

^{53.} SeeCarver v. Lehman, 528 F.3d 659, 671 (9th Cir. 2000); 540 F.3d 1011 (9th Cir. 2008); Agri Processor Co. v. NLRB, 514 F.3d 1, 6 (D.C. Cir. 2008); E. Armata, Inc. v. Korea Commercial Bank, 367 F.3d 123, 132 n.10 (2nd Cir. 2004); TorPharm Inc. v. Ranbaxy Pharm., 1826 F.3d 1322, 1329 & n.7 (Fed. Cir. 2003); Crouse-Hinds Co. v. InterNorth, 1664 F.2d 690, 703

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Undistributed Middle Term⁵, and the Fallacy of Negative Premises⁵⁶ Just as courts have found use for these fallacies in evaluating legal argument, lawyettso, should use them to test the logic of their own argumentsas well as the logic of their opponents' arguments. Here we with near the evaluation of the evaluat

LEXIS 20533, at *183 (N.D.N.Y Mar. 22, 2007); Adams v. La.-Pac. Corp., 284 F. Supp. 2d 331, 338 n.7 (W.D.N.C. 2000), d in part, vacatedin part, and remanded 177 F. App'x 335 (4th Cir. 2006); United States v. Balcarczyk, 52 M.J. 809, 812 & n.12 (N-M Ct. Crim. App. 2000), re Jeffery, 2008 Cal. App. Unpub. LEXIS 7976, at *25 n.8 (Cal. Ct. App. 2008); Pirtle v. Cook, 956 S.W.2d 235, 248 (Mo. 1997) (Price, Jr., J., dissenting); City of Green Ridge v. Kreisel, 25 S.W.3d 559, 563 & n.2 (Mo. Ct. App. 2000); Paulson v. State, 28 S.W.3d 570, 572 (Tex. Crim. App. 2000)ulton v. State, 95 S.W.3d 401, 405 (TW.34p26/2002);6-21TJ -96.0016tt

55. See, e.g.Spencer v. Texas, 385 U.S545 578 (1967) (Warren, C.J., dissenting); Funk Bros. Seed Co. v. Kalo Inoculant Co., 333 U.S. 127, 134 (1948) (Frankfurter, J., concurring) liked Erecting & Dismantling, Co. v. USX

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Other experts may use those processes. The conclusions of these processes are invalid.

This appears to be the fallaofy an undistributed middle term and illicit process of a major or minor term.

While Judge Urbigkit properly regonizes the Fallacy of Illicit Process here, it is difficult to discern it in the syllogistic form presented by the Judge Urbigkit's opinion. It is more easily seen if we use consistent terms and place them in a more familiar syllogistic form, as follows:

Some evaluative processes apprecesses that yield invalid conclusions.

Some of the expert's mheads include those evaluative processes.

Therefore, all of the expert's methods indude processes that yield invalid conclusions.

Reduced even further to letterymbols, the form of the syllogism is:

Some A are B.

Some C are A.

Therefore all C are A.

We see the minor term **(c)** In the premise *C* is undistributed ("[s]ome C"). In the conclusion *C* is distributed ("all C"). Accordingly, the argument suffersom an Illicit Process of the Minor Term, and is unreliable.

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writing a concurring opinion, couched his analysis of this issue in terms of formal logic:

If it be true that the PostaService has not taken steps to enforce, there can be two and only two reasons for inaction: one, that there was not Congressionaduse to merit Postal Service intervention; or two, such abuseddexist, but the Postal Service did nothing about it.

The majority ignores the fit spossibility completely, and without any supportive evidence **the** record, it makes a factual assumption that congressmen did abuse the privilege. The majority then conclude that since the Postal Service has 'abandoned' its regulatory activities, the franking statute may be enforced by private attorney general actions the intent of the statutes, as expressed by Congresstosbe effectuated.'

I refuse to be associated with any assumption that congressmen from 1968 to 1972 abused the franking privilege. Nor do I believe that it is approptia for the federal judiciary, a correlative branch of the federad vernment, to proceed from such an assumption and to render a legal conclusion severely critical of Congressional practices.

... Since the plaintiff is placed in the "zone of interest" only by an inferential process, since these inferences are based on two illicit minor premises—that there is no enforcement commitment in a governmental agency and implied Congressional abus**ex**ist which go unchecked by governmental entities or agencies—the proffered syllogism is analytically unsoun**b**eing invalid it must be rejected.⁵

Judge Aldisert uses the contempt logical distribution to describe the logical failing of the majority opinion. The fact that the Postal Service had not enforted franking statute in the past does not mean that the Postal Service will never enforce the franking statute. Judge Aldisse argues that the Court is distributing this term in the cohusion, when it is undistributed in

two other works specifically addressinfigrmal logic in legal reasoning, in addition to several other books focusing on the judicial processeRuggero J. Aldisert et al.,Logic for Law Students: Ho to Think Like a Lawye69 U.PITT. L. REV. 1, 2 (2007),

^{85.} Schiaffo 492 F.2d at 437–38 (footnotes omitted).

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the minor premise. As a result, the argument commits the Fallacy of the Illicit Minor Term and must be rejected.

Each of these cases exemplifience pattern of argument that reveals a violation of the seconder of logic. Where the arguer does not conform to this rule **df**stribution, the argument's logical form cannot ensure the truth of its conclusion.

V. DISCERNABLELOGIC

Lawyers spend so much timectosing on substantive rules of law, the rhetoric of written rad oral advocacy, and reasoning by analogy that they frequently take the rule of deductive logic in legal argument for granted. While they use it day in and day out, and while it pervades every legal subject matter, lawyers spend little time mastering it. In fact, when it comes right down to it, most lawyers are experts in thew, but cannot call themselves experts in logic. Accordingly[NAL ()]li Twl ET EMC yof n the

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watching, out of the outmost limit **bi**s peripheral vision, to see if the third base coach will take t**ba**it, rely solely on the Official Rules, and send the runner home. Only then will the third base coach realize that the centerfield beaving mastered the invisible rules of baseball, has made the better play, and will throw the runner out to win the game.

In the same way, lawyers face, of huch like the centerfielder and third base coach. Generally, lawyers know the substantive law very well. But the difference beeen winning a legal argument and losing one frequently has little to do with how well the lawyers know the law. It has more to dwith how skilled they are at mastering the rules of logic toaft a persuasive, even compelling, argument. Understanding the foron an argument empowers a lawyer with the ability to critically analyze his argument, and his opponent. While philosophical logic is an enormous philosophical doctrine that takes many years of dy to master, the philosophical device of the logical fallacprovides a simple, easily understood tool that lawyers with no formatraining in philosophy can use. Fallacy-based legal reasoning provide wyers with a shortcut. It is an "off the shelf" method for ung philosophical logic to solve legal problems.

While understanding something office theoretical basis of formal logic is helpful, one fallacy the Fallacy of the Illicit Process can be learned in just a few minutes, and can be employed simply by looking forand indentifying a common pattern of argument. Once the Fallacy of the Illicit Process is identified, explaining the fallacy is as simple as citing other cases, legitimizing the use of logical fallacy as a basis for discrediting a legal argument, identifying the syllogistic components of the argument, and labeling the argurthes fallacious and necessarily unreliable.

Lawyers who ignore the logical form of their opponents' arguments frequently get by. The group on substantive rules. They argue by analogy They use their rhetorical talents, and make arguments that frequently amount to explanations of why their opponent's argument might be "good here" argument is "better." However, unknown to them, the rules of philosophical logic frequently reveal proof that heir opponent's argument is not "good," instead it is fallacious, illgical, and must be rejected by the court. Revealing these other invisible and indiscernible rules of logic, and using fallacyabed reasoning, provides a device

for establishing that, instead **tig**hting a battle between "good" and "better," a lawyer fights a battbetween "right" and "wrong." Mastering the rules of logic rhas for compelling advocacy, sound and consistent analysis, and provides an authoritative basis for the credibility of legal argument. ghoring the rules of ogic exposes an advocate to the risk that he making decisions like the third base coach who only knows the **Ofai** Rules of baseball. The advocate who knows nothing of formagic runs the risk that, like the centerfielder, opping counsel knows something the advocate does not. If so, the advocate **ab**out to face embarrassment, because opposing counsel has mastered a simple, powerful, but otherwise indiscernible rule.