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Kripke's Two Definitions of Rigid Designation

Philosophers, following Kripke, have formulated their notions of rigid designation in two ways. One way focuses on objects and defines a rigid designator as "referring to the object in every possible world in which the object exists" (I will call it 'the first definition'). The other way focuses on designators and defines a rigid designator as "referring to the same object in every possible world in which the designator refers at all" (I will call it 'the second definition'). The difference between these two definitions has not gone unnoticed, but to my knowledge the origin of the second definition and the consequences of the inconsistency between these two co-existing definitions have not been carefully explored. I shall show that Kripke in Naming and Necessity is accountable for both definitions and he would have to make a hard choice to maintain consistency.

¹ Cf. Nathan Salmon, Reference and Essence (Princeton, 1981), p. 33; and A. C. Grayling, An Introduction to Philosophical Logic (Sussex, 1982), p. 182.

² Cf. Hilary Putnam, "Meaning and Reference," Journal of Philosophy 70 (1973): 707; Richard Boyd, "Materialism without Reductionism: What Physicalism Does Not Entail," in Ned Block (ed.), Readings in the Philosophy of Psychology (Cambridge, Mass. 1980), 1: 77-78; and Michael Dummett, Frege: Philosophy of Language (New York: Harper and Row, 1973), p. 126.

For instance, Salmon believes it was Dummett, Linsky, and Putnam who proposed the second definition (1981, p. 33); Monte Cook writes: "although this latter notion does not occur in *Naming and Necessity*, it is easy to see how one might take it as simply a variation of the notion of a term's designating the same individual in every world in which that individual exists" ("Names and Possible Objects," *Philosophical Quarterly* 35 [1985]: 305).

same object in every possible world no matter whether the object actually open to three interpretations; first, a rigid designator designates the same accidental designator if that is not the case."4 This definition alone is designates anything at all; and thirdly, a rigid designator designates the object in every possible world in which the object exists; second, a rigid in every possible world it designates the same object, a non-rigid or In Naming and Necessity Kripke states that a term is "a rigid designator if designator designates the same object in every possible world in which it

also offers an intuitive test for rigidity. It is from this, I shall argue, that one. But the story does not end here. Along with his definition Kripke designator rigidly designates a certain object if it designates that object two interpretations Kripke has narrowed his definition down to the first wherever the object exists" (pp. 48-49). Thus it appears that between the two interpretations. Following his initial definition, Kripke writes: "a concern in this paper. Rather, I concentrate on problems with the first divided on this issue.5 The third interpretation, however, is not my did not intend the third interpretation, Kripke's commentators are whose designatum exists in all possible worlds — seems to suggest that he tion of the notion of a strongly rigid designator — a rigid designator the notion of the second definition emerges. possible nonexistence of an object (p. 21, n. 21). Although his introduc-Necessity, he "deliberately ignore(s) delicate questions arising from the Kripke's position on the third interpretation is unclear. In Naming and

in 1970 (e.g., Humphrey might have), no one other than Nixon might other than the U.S. President in 1970 might have been the U.S. President might not have been Nixon" (p. 49). He also writes: "although someone man (Nixon) might not have been the President, it is not the case that he have been Nixon" (p. 48). That is, the first form of the intuitive test is 'D Kripke has put the intuitive test in two forms. He writes: "although the

of Richard Nixon' fails this form of the test and is a non-rigid designator. begot his son Richard Nixon and become a father. In this way, 'the father is in fact the father of Richard Nixon, i.e., Francis Nixon, might not have not have been the father of Richard Nixon can mean that the person who possible world. In the same way, that the father of Richard Nixon might 1970 in this world might not have been elected the President in some U.S. President, meaning that the person who was the U.S. President in this, just as we can say the U.S. President in 1970 might not have been the expressed a contradiction. But in another sense, we can meaningfully say Nixon might not have been the father of Richard Nixon, we have father of Richard Nixon. In one sense, when we say the father of Richard someone other than the father of Richard Nixon might have been the not have been born to different parents, we may say it is not the case that not equivalent. For example, given Kripke's position that a person could the test asks whether the father of Richard Nixon might not have been the Nixon' passes the intuitive test in one form and is rigid. The other form of father of Richard Nixon. Hence the designator 'the father of Richard than D might have been D, 'D' being any designator. These two forms are might not have been D' and the second is 'someone (or something) other

is a definite description. Definite descriptions have meanings. Just as not pass the intuitive test of this form, because it is the case that the father father of Richard Nixon'. This is so because 'the father of Richard Nixon' though he exists. We would not designate him in such a world as 'the because in a possible world Francis Nixon might have been childless even is 'the father of Richard Nixon' a rigid designator by the first definition, of Richard Nixon might not have been the father of Richard Nixon. Nor 'Nixon' is rigid by the first definition. 'The father of Richard Nixon' does refers to Nixon in every possible world in which Nixon exists. Thus situation that Nixon might not have been called 'Nixon' (p. 49), 'Nixon designator 'Nixon' refers to Nixon even if we speak of the counterfactual have been Nixon is compatible with that he has to be Nixon in every possible world in which he exists. Since Kripke believes that the rigid passes this test for rigidity. That it is not the case that Nixon might not and the two definitions on the other is not difficult to see. The first form of the case that Nixon might not have been Nixon, the designator 'Nixon the test has the schema 'whether D might not have been D'. Since it is not The connection between these two forms of the test on the one hand

⁴ Saul A. Kripke, Naming and Necessity (Cambridge, Mass., 1980), p. 48

⁵ For example, David Kaplan thinks the third interpretation was intended, while H. Wettstein (eds.), Themes from Kaplan (Oxford, 1989), p. 493, n. 16, and p. 169 Harry Deutsch thinks otherwise. For their views, see Joseph Almog, J. Perry, and

not have been the inventor of bifocals in that possible world. Similarly, if on whether Francis Nixon in that possible world has the son Richard bifocals in that possible world, whether we would use 'the father of whether we would use 'the inventor of bifocals' to designate Benjamin world. Thus, the effect of this form of test coincides with Kripke's first Francis Nixon would not have been the father of Richard Nixon in that Nixon. Had Franklin not invented bifocals in a possible world, he would Richard Nixon' to designate Francis Nixon in a possible world depends Franklin in a possible world depends on whether Franklin invented wherever the object exists. definition of rigidity that a rigid designator designates the same object Francis Nixon had not had the son Richard Nixon in a possible world,

of test coincides with the second definition of rigidity. respect to which the designator refers. Thus, the effect of the second form rigid designator refers to the same object in every possible world with said of 'the father of Richard Nixon'. Since Kripke holds that Richard Richard Nixon' is also rigid by the second definition, which says that a designator refers, it refers to the same person. Therefore, 'the father of implies that wherever the designator 'the father of Richard Nixon' as that the father of Richard Nixon might have been the father of Richard Nixon for Kripke) the father of Richard Nixon. To say that no one other than Nixon might not have been born to different parents, no one other than (or something) other than D might have been D? For example, we can say the father of Richard Nixon (i.e., Francis Nixon) might have been (at least that no one other than Nixon might have been Nixon. The same can be The second form of the intuitive test has the schema 'whether someone

schema of the intuitive test.7 M. J. More noted the non-equivalence test and the second definition of rigidity. More derives the second he did not trace the connection between the second form of the intuitive between the first form of the test and the second definition of rigidity, but Some Kripke commentators have taken the first form to be the sole

of his general definition of rigidity that is supported by the second form of accountable for the second definition which is a reasonable interpretation accountable for the first definition as explicitly stated, but also not the first one. Since Kripke has employed both forms, he is not only intuitive test that supports the second interpretation, because the second should be interpreted only as the second. It is the second form of the definitely derive the second definition, because it can be interpreted in worlds" (More, p. 83). I think from this statement alone one cannot tors?? I mean a term that designates the same object in all possible definition from Kripke's statement "what do I mean by 'rigid designaform of the intuitive test is compatible with the second interpretation, but three ways, as I have pointed out, and Kripke did not explicitly indicate it the intuitive test.

with Francis Nixon and only Francis Nixon could become Richard case that someone other than the father of Richard Nixon might have possible worlds in which it refers at all (the second definition); it is not the criterion. Nevertheless it designates the same object with respect to all equated the second form of the test with the first definition, as he used the Nixon's father. Therefore 'the father of Richard Nixon' is rigid by this because, as Kripke has argued, Richard Nixon has an essential relation been the father of Richard Nixon (the second form of the intuitive test); even though Francis Nixon exists. Therefore it is not rigid by this intuitive test); because he might not have begot the son Richard Nixon he might not have been the father of Richard Nixon (the first form of the example, it is not the case that 'the father of Richard Nixon' designates But the non-equivalence between the two definitions is evident. For phrase 'in the same way' to connect them in one paragraph (pp. 48-49). difference between these two forms of the intuitive test, and mistakenly the same object (Francis Nixon) wherever he exists (the first definition); It appears that in Naming and Necessity Kripke was not aware of the

generated an inconsistency. By his first definition, 'the father of Richard Nixon' is not a rigid designator; by the second, it is rigid. Designators of Then, by holding both definitions at the same time, Kripke has

⁶ If 'the father of Richard Nixon' is used to designate Francis Nixon even if he did as the one that has meaning, even though they appear in the same letters. meaning. If it has no meaning, we cannot legitimately say it is the same expression Francis is the father of Richard while Francis is not, or the expression has no not have the son Richard Nixon, either we have a contradiction because it means

⁷ For instance, see Colin McGinn, "Rigid Designation and Semantic Value,"

across Possible Worlds," Analysis 42 (1982): 83. Philosophical Quarterly 32 (1982): 98; and M. J. More, "Rigidity and Identity

anything in a possible world, or if it designates something that has no case, 'Richard Nixon', a rigid designator, is an essential component of some possible worlds in which the object exists. in which it refers at all, while still it might not pick out that same object in of terms each of which designates the same object in every possible world descriptions would do. Putting the two aspects together, we have a family Richard Nixon' cannot designate a different object as some other definite be replaced by anyone else in this relationship. Therefore, 'the father of partly depends on the existence of Francis Nixon, Francis Nixon cannot determines the object to which the designator could possibly apply. In the depends on the existence of the other, but not vice versa. This relationship (or more) objects involved and the existence (or coming to exist) of one consideration, but also on the existence of the object designated by world depends not only on the existence of the object under whether 'the father of Richard Nixon' designates its object in a possible such essential relation with Francis Nixon, the whole designator 'the 'the father of Richard Nixon'. If 'Richard Nixon' fails to designate component of the complex designator. On the one hand, as in the above essential connection with a rigid designator which is an essential this kind are stuck between the two definitions because they have ar Nixon case, because the existence (or coming to exist) of Richard Nixon 'Richard Nixon'. On the other hand, in cases of this kind, there are two father of Richard Nixon' will not designate Francis Nixon. Therefore,

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definitions. If Kripke holds that a rigid designator has to designate a Serious consequences follow the inconsistency between the two designate the same object in all possible worlds in which they designate worlds, because designators such as 'the father of Richard Nixon' only non-rigid designator might pick out different objects in different possible words, because Kripke would have to consider designators such as 'the whether someone or something other than D might have been D. In other second definition. He would not be able to tell a rigid designator by asking certain object wherever the object exists, he would have to abandon the father of Richard Nixon' as non-rigid, he would not be able to say that a

> he may not want to give up. different objects in different possible worlds is considered as one of object in every possible world while a non-rigid designator might pick out anything at all. But the thesis that a rigid designator designates the same Kripke's most significant contributions to philosophy of language, which

wherever the object exists, and allow a rigid designator (e.g., 'the father of reject the thesis that a rigid designator designates the same object worlds. But he would have to abandon the first one. He would have to non-rigid designator would pick out different objects in different possible Nixon' as rigid, Kripke would be able to hold on to his intuition that a of doing this is that, by ruling designators such as 'the father of Richard though the object (e.g., Francis Nixon) exists. Richard Nixon') to fail in designating its object in a possible world even 'the father of Richard Nixon' would be a rigid designator. One advantage Then, what if Kripke sticks to the second definition of rigidity? If so

rigid designators contradicts Kripke's necessity of identity thesis. definition itself generates a problem for Kripke. The second definition of without contradicting each other. But the very acceptance of the second sufficient, but not a necessary, condition for being a rigid designator. the two definitions, and thus the two definitions would work together first definition (and the first form of the intuitive test) as giving only a Accordingly, a designator is rigid if it is qualified as rigid by at least one of One might think the divergence can be accommodated if we take the

different. In this world the father of Richard Nixon is identical with father of Richard Nixon' and 'Francis Nixon', things turn out to be designators in general (p. 140). When we come to designators such as 'the designators; it does not only hold between names, but also between rigid necessary identity of this sort to be not ad hoc, but a general thesis of rigid taking only the latter to be necessary" (p. 110). He also believes that conditional, 'if Hesperus exists then Hesperus is Phosphorus', cautiously we could replace the statement 'Hesperus is Phosphorus' by the 'Phosphorus', Kripke writes: "If we wish to be somewhat more careful necessary identity between the two rigid designators 'Hesperus' and possible world in which the object does not exist. But in discussing (pp. 147-49). Kripke does not consider whether the statement is true in a Y' is true, it must be true in all possible worlds in which the object exists According to Kripke, if 'X' and 'Y' are both rigid designators, and 'X =

necessity of identity thesis as a general thesis is false. 'The father of not a rigid designator, which would invalidate Kripke's second form of a rigid designator for Kripke. So either 'the father of Richard Nixon' is necessity of identity thesis is invalid or at least one of the two designators, definition, by Kripke's necessity of identity thesis the statement would Francis Nixon, and the statement 'Francis Nixon is the father of Richard wrong with his necessity of identity thesis if he holds on to the second be non-nigid under this criterion. Therefore there has to be something Richard Nixon' is a rigid designator by the second definition, and cannot the intuitive test for rigidity as well as the second definition, or Kripke's Francis Nixon did not beget Richard Nixon. Therefore, either Kripke's obviously it is not the case. It is not true in a possible world in which Francis Nixon exists then he is the father of Richard Nixon'. But Hesperus exists then Hesperus is Phosphorus', it should be true that 'if have to be true in all possible worlds in which the object exists. Like 'if Nixon' is true. If the two designators are both rigid by the second 'Francis Nixon' is a proper name that designates a real object, it has to be 'the father of Richard Nixon' and 'Francis Nixon', is not rigid. Because

stimulation of C-fibers' is true, this identity must be necessary (pp. 147stimulation of C-fibers but no pain. Kripke persuasively argues that we 49). That is, we will not find a possible world in which there is the 'the stimulation of C-fibers' are rigid designators; if 'pain is the materialistic mind-body identity theory. He argues that both 'pain' and weapon for Kripke. For instance, he uses it to argue against the not afford this. The necessity of identity thesis has been a very powerful every possible world in which all the terms therein refer? I think he could statement of identity is necessary if and only if it is true with respect to state which might be identified with a corresponding mental state" (p corresponding physical state, and the analogue holds for any physical contradiction with the supposed necessary identity of pain and the pain," and concludes: "Such a situation would be in flat out can imagine that "the stimulation of C-fibers can itself exist without because the identity theorist may simply state that the designator of a against the mind-body identity theory would no longer carry force, 151). If Kripke loosens the necessity of identity thesis, his argument Could Kripke save his necessity of identity thesis by revising it so that a

> designation intact as it stands. 10 and thus turned out not to be pain. Such a revision of the necessity of causal role. Then the relation between 'pain' and 'the stimulation of Cpain is definable as the stimulation of C-fibers which occupies a certain matter which way Kripke chooses, he cannot keep his theory of rigid the stimulation of C-fibers which did not occupy the relevant causal role causal role. So the materialist can say that, just as there might have been possible worlds; namely, when the stimulation does not occupy that wherever it refers, but it might not designate the stimulation in some 'Francis Nixon'. 'Pain' will designate the stimulation of C-fibers fibers' would be similar to that between 'the father of Richard Nixon' and identity thesis may be too much of a price for Kripke to pay. However, no Francis Nixon who did not beget Richard Nixon, there might have been mental state might not refer in that possible world. For example, suppose

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10 An early verson of this paper was presented at the conference of the American want to show is the potential damage that would result if Kripke chooses this way.

to Samuel C. Wheeler III, Joel J. Kupperman, Ruth Barcan Marcus, Ray Philosophical Association, the Pacific division, March 27-30, 1991. I am grateful

Elugardo, Ruth G. Millikan, Dan Ginsberg, John Troyer, and Crawford Elder

for their valuable comments and suggestions.

⁸ It should be noted that it is not the case that complex designators are rigid only I do not intend to develop or defend a mind-body identity theory here. All I wherever one of these two designators refers. Therefore, all complex designators cannot be excluded from the necessity of identity thesis. Kripke cannot simply say identity between 'the person originaged from Zygote Z' and 'Richard Nixon 'Richard Nixon' would be two rigid designators by both definitions. On the one originated Richard Nixon 'Zygote Z'. 'The person originated from Zygote Z' and complex rigid designators on the other. For example, let's call the zygote that rigidity can be drawn between singular rigid designators on the one hand and under the second definition, nor is it the case that the difference of the degree of the necessity of identity only holds between non-complex rigid designators. like 'the father of Richard Nixon'; on the other hand, there seems to be a necessary hand, 'the person originated from Zygote Z' is a complex designator very much