EXHIBIT A-2

Invalidity Claim Chart of Boulange, alone or in combination with any of Sigg, Lam, Reuter, Scypinski, M Schoenknecht, Chacornac, Nema, D'Souza, Furfine, Badkar, Macugen, Eylea, Lucentis, Stewart, USP789 Hagen, Khandke, Wittland, Shams, Dixon, and/or Cormier against U.S. Patent No. 9,220,

Charted Reference:

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PCT Patent Publication No. WO 2009/030976 to Boulange *et al.* ("Boulange"), in view of Sigg, Lam, Reuter, So Shah, Fries, Schoenknecht, Chacornac, Nema, D'Souza, Furfine, Badkar, Macugen, Eylea, Lucentis, Stewart, US DC365, Hagen, Khandke, Wittland, Shams, Dixon, and/or Cormier, render obvious claims 1-26 of U.S. Patent N

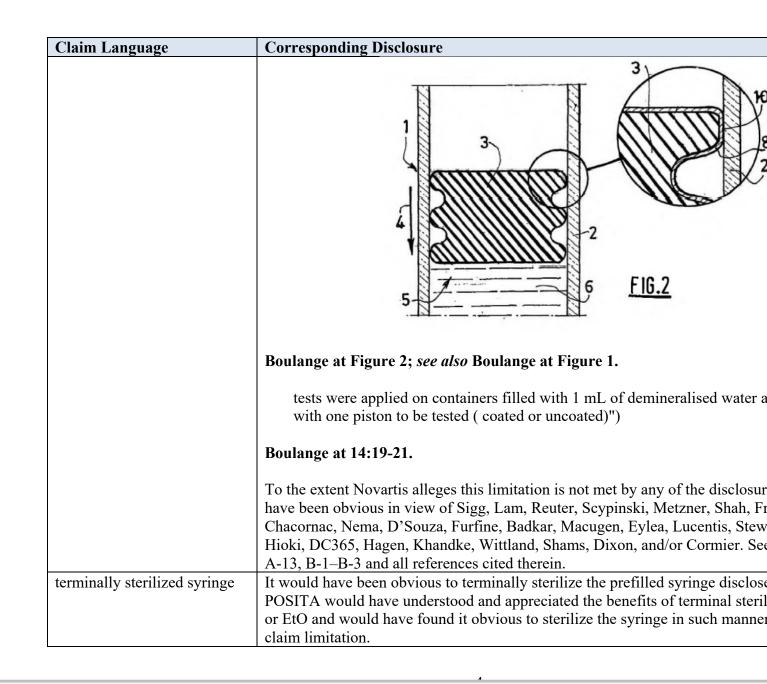
Boulange is an International Patent Application publication that was published on March 12, 2009, and therefore at least under pre-AIA § 102(b).

This claim chart is based on Regeneron's current understanding of the asserted claims, and Regeneron's investig Regeneron is not admitting to the accuracy of any particular construction. Regeneron reserves all rights to amend chart in light of any claim construction developments or any amendments to Novartis's infringement contentions contentions, should such developments occur or amendments be allowed. Further, as discovery is ongoing and R seek discovery from third parties regarding the references identified in Regeneron's invalidity contentions as we prior art, Regeneron reserves the right to revise its invalidity contentions as appropriate in view of any ongoing of

The claim chart below identifies where each limitation of each asserted claim of the 631 Patent can be found in I citations provided below are exemplary, rather than exhaustive, and Regeneron reserves the right to rely upon an cited references. Where Regeneron identifies a portion of a reference's text, the identification should be understo corresponding figure or diagram, and vice versa.

Claim Language	Corresponding Disclosure
[1.a-pre] A pre-filled syringe	Boulange discloses a pre-filled syringe.
	For example, see the following passages and/or figures, as well as all related
	The present invention relates in general to a medical device, for example comprising at least one smooth coated part, , for example a container and parts being able to move one relative to the other, for example translation rotationally, when the medical device is operated.
	In this application, the term distal means the part furthest from the user's term proximal means the part closest to the user's hand. Likewise, in this term "distal direction" means the direction of administration, i.e., toward the term "proximal direction" means direction opposite to the direction o i.e., away from the patient.
	Furthermore, the container is intended to accommodate a medical product gaseous, fluid, pasty or lyophilized phase, which may have a variable vise therefore able to flow, particularly because of the pressure exerted as a re- movement of the piston relative to the container. The piston is preferably partially from a viscoelastic material so as to ensure tightness in the region between the container and the piston. At the same time, the volume of the contained in the medical device varies, for example decreases, according movement between the two parts of the medical device.
	Boulange at 1:3-22.
	With reference to figures 1 and 2, the medical device 1 comprises a first a parts 2 and 3, one being complementary to the other, for example a pistor container 2, the piston 3 and the internal surface of the container 2 being one another via a contact region 10. The piston 3 and the container 2 are with respect to the other in a predetermined gliding movement 4, for example and/or rotationally. The container 2 is intended to accomm

Claim Language	Corresponding Disclosure
	 product 6 in the liquid, gaseous or fluid phase, the volume of said product according to the movement of the piston 3 with respect to the container 2. for administering the product 6, the piston 3 is caused to move distally all figure 1 in order to push the product 6 out of the container 2. The piston 3 deform in order to tighten the contact region 10. For example on figure 2, the developed surface of the piston 3, which corresponds to the contact region vided with a coating 8 which is continuous, intrinsically elastic and first the piston 3. Boulange at 9:21-35.
	The following test protocol is performed on a medical device 1 of the syri according to the second embodiment depicted in Figure 2 of the present ap The container 2 is a glass syringe body accommodating a piston 3 able to translationally along arrow 4 of figure 2 inside the container 2.
	 The piston 3 is made of a viscoelastic material such as bromobutyl rubber available at West Company, or chlorobutyl rubber commercially available Company. Boulange at 13:8-15.



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Claim Language	Corresponding Disclosure
	Boulange alone or in view of Lam, Sigg, Nema, Metzner, Wittland, Hagen, S D'Souza, disclose a terminally sterilized syringe. A POSITA would have had expectation of success combining Boulange and Lam, Sigg, Nema, Metzner, Scypinski, and/or D'Souza in a way that would satisfy this limitation.
	To the extent this limitation is not expressly and/or inherently disclosed by Bolimitation would have been obvious, even without resorting to the disclosures reference, because it was within the common knowledge of persons of ordination was used according to known methods, to achieve predictable results.
	In addition, the 631 Patent fails to disclose a new process for terminal sterilize explains "a careful balancing act is required to ensure that while a suitable lev carried out, the syringe remains suitably sealed, such that the therapeutic is no Patent at 1:31-36. The 631 Patent says that the sterilization it discloses may be methods, such as by using VHP or EtO, but no details are provided regarding process itself. 631 Patent at 9:49-54 ("As noted above, a terminal sterilisation to sterilise the syringe and such a process may use a known process such as an (EtO) or a hydrogen peroxide (H2O2) sterilisation process. Needles to be used may be sterilised by the same method, as may kits according to the invention. description in the 631 Patent only sets forth desired results – how long the syn the Sterility Assurance Level, the alkylation of the product, and the amount of remaining – but does not detail the steps to achieving them. <i>See e.g.</i> , <i>id.</i> at 9:5 631 Patent does not provide any details regarding the known sterilization met those methods were known in the art and thus render this claim limitation obv
	A POSITA would have known that terminal sterilization of prefilled container packaging is one way to sterilize the device and maintain a low bio-burden ar contaminants. A POSITA also would have known that terminal sterilization is range of solutions, including those that are temperature, oxidation, or radiation

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