

IP Considerations For Generative AI

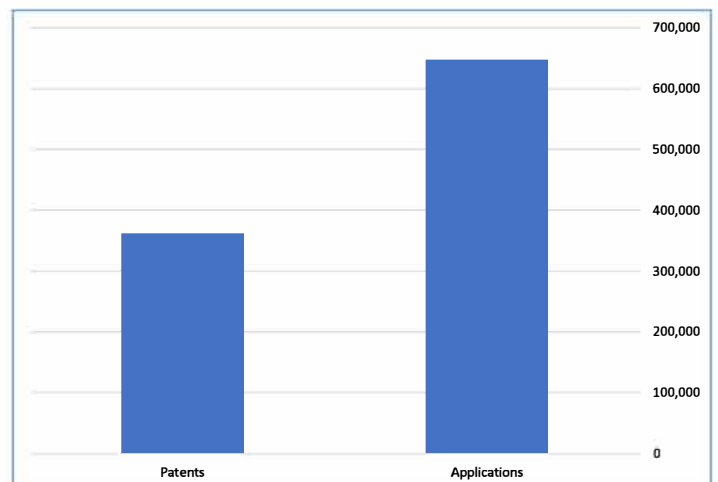
Patrick Njeim, November 2, 2023



1

Let's start with numbers

- How many patent applications were filed in 2021?
 - 646,855
- How many patents were issued in 2021?
 - 360,625
- How many AI patent applications were filed in 2021?
 - 13,898
- Average annual growth rate?
 - 38%- highest across technology areas
- 2023 and on should see higher growth rate in view of generative AI



2

Example AI: “self-learning”

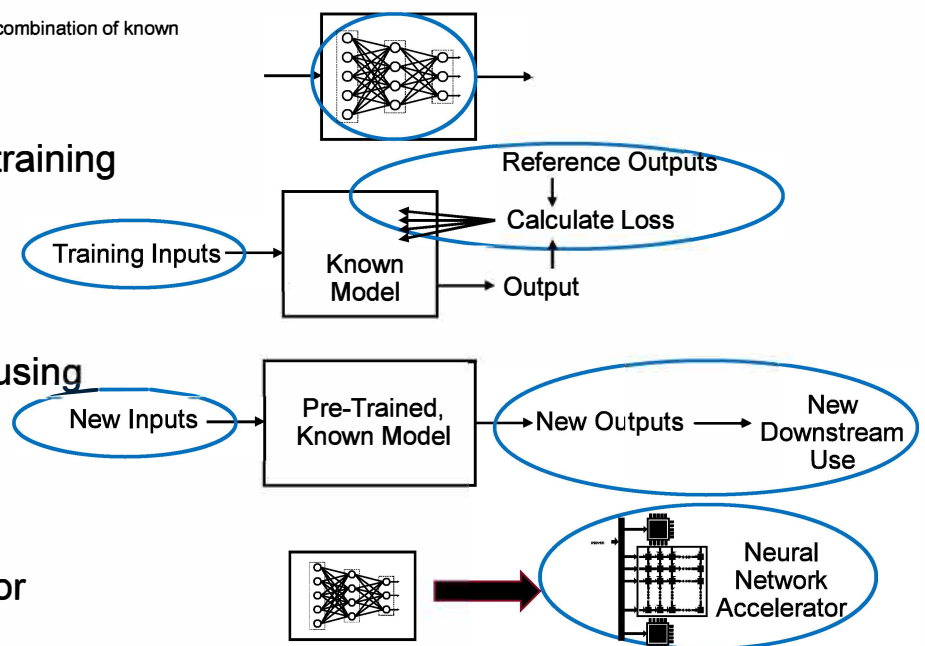
- DeepMind (acquired in 2015 by Alphabet/Google)
- Video shows AI-powered robots playing football
 - No human programming
 - Motion capture data to teach robots how to move like humans
 - Then robots given goal: score goals
 - Robots self-learned moves to play the game by testing different moves over 2 weeks



3

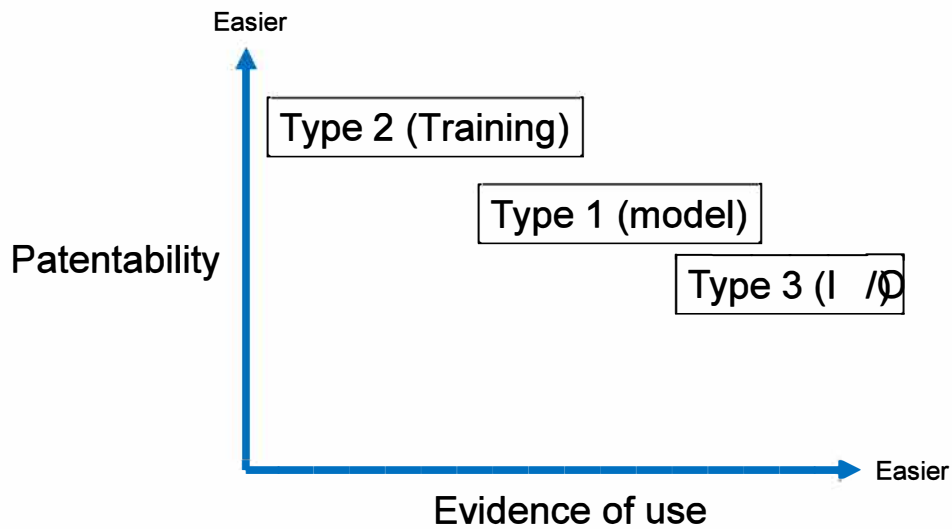
Areas of protection

- Type 1 – New model (can be combination of known models)
- Type 2 – New method of training model
- Type 3 – New method of using model
- Type 4 – New hardware for runtime/training



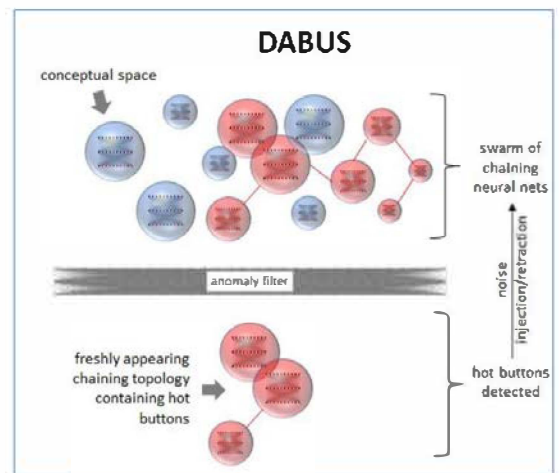
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The balance in the software space



Can an AI model be an inventor? Short answer: no.

- **DABUS: Device for the Autonomous Bootstrapping of Unified Sentience**
 - AI model developed by Thaler
- **DABUS named as sole inventor:**
 - US 16/524,350 (light beacon that flashes in a new and inventive manner to attract attention)
 - US 16/524,532 (beverage container based on fractal geometry)
- **USPTO found application incomplete for not naming an inventor per patent act (35 U.S.C. § 100(f))**
- **On appeal, Federal circuit found AI cannot be inventor**
 - 35 U.S.C. § 100(f): inventor is "individual or, if a joint invention, the individuals collectively who invented or discovered the subject matter of the invention"
 - although "individual" not defined, it is clear from the language of the statute that an "individual" is a natural person



See US 2015/0379394

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