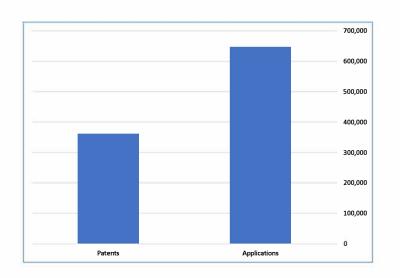






Let's start with numbers

- How many patent applications were filed in 2021?
 - 646,855
- How many patents were issued in 2021?
 - 360,625
- How many Al 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 Al





Example Al: "self-learning"

- DeepMind (acquired in 2015 by Alphabet/Google)
- Video shows Al-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



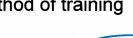


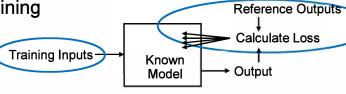
3

Areas of protection

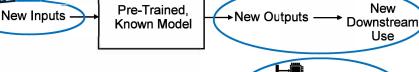
■ Type 1 — New model (can be combination of known

Type 2 – New method of training model





Type 3 – New method of using model



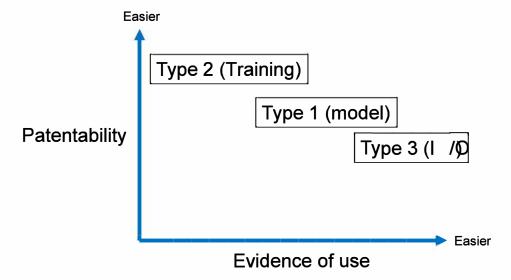
■ Type 4 – New hardware for runtime/training







The balance in the software space



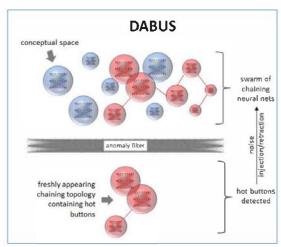


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Can an Al model be an inventor? Short answer: no.

- DABUS: Device for the Autonomous Bootstrapping of Unified Sentience
 - · Al 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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First appeared as part of the conference materials for the 28th Annual Advanced Patent Law Institute session "IP Considerations for Generative AI"