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# ASX Announcement

## BrainChip Granted New Australian Patent Relating to Akida 2.0 IP

- Patent AU 2022203607 "EVENT-BASED EXTRACTION OF FEATURES IN A CONVOLUTIONAL SPIKING NEURAL NETWORK" issued to BrainChip
- BrainChip's portfolio now comprises 18 issued patents.

**Sydney – 25 August 2023:**

BrainChip Holdings Ltd ("BrainChip" or the "Company") (ASX: BRN, OTCQX: BRCHF, ADR: BCHPY), the world's first commercial producer of ultra-low power neuromorphic AI IP, today announced that its patent portfolio is further strengthened with the issue of an Australian patent.

1. **AU 2022203607 Issuance:**

   The patent, AU 2022203607 was issued on 24 August 2023 by IP Australia. The patent is considered by the Company to be a valuable IP asset that will block competitors from performing efficient transposed and dilated convolutions in a neural network.

   **Key features of the patent:**

   - The patent protects event-based transposed and dilated convolution techniques on digital input data converted into events. The protected approach significantly reduces the computational requirements and power consumption compared to non-event-based convolutions.
   - The patented technology enables advanced edge application implementation by requiring a smaller number of event-based neuron circuits.
   - The low power and efficiency advantages surpass existing state-of-the-art techniques, making it highly suitable for tasks such as semantic segmentation and super-resolution.
   - The patented technology is in the advanced stages of development for integration into the 2nd generation Akida IP, indicating its practical use in cutting-edge hardware.

BrainChip's portfolio now comprises 18 issued patents (12x US, 4x AU, 1xEP, 1xCN). In addition, some 30 patent applications are pending in the US, Europe, Australia, Canada, Japan, Korea, India, Brazil, Russia, Mexico, and Israel.

**This announcement is authorised for release by the BRN Board of Directors.**

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## About BrainChip Holdings Ltd (ASX: BRN, OTCQX: BRCHF, ADR: BCHPY)

BrainChip is the worldwide leader in edge AI on-chip processing and learning. The company's first-to-market neuromorphic processor, Akida™, mimics the human brain to analyze only essential sensor inputs at the point of acquisition, processing data with unparalleled efficiency, precision, and economy of energy. Keeping machine learning local to the chip, independent of the cloud, also dramatically reduces latency while improving privacy and data security. In enabling effective edge compute to be universally deployable across real world applications such as connected cars, consumer electronics, and industrial IoT, BrainChip is proving that on-chip AI, close to the sensor, is the future, for its customers' products, as well as the planet. Explore the benefits of Essential AI at www.brainchip.com.
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Additional information is available at https://www.brainchipinc.com

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For more information contact:

Tony Dawe

Director, Global Investor Relations

BrainChip Holdings Ltd.

tdawe@brainchip.com