PATENTPULSE AI · DAILY PATENT ALPHA

Sample Brief: Robotics

October 30, 2026 · 4 newly published USPTO applications, ranked by Signal Score

Real USPTO applications published in the last 60 days. Analysis is AI-generated opinion, not legal or investment advice.

AT A GLANCE



#2 **Adaptable suction gripper using membrane and…**

Early-stage bet · Nexera Robotics Corp.



#3 **Wearable gear captures movements to train…**

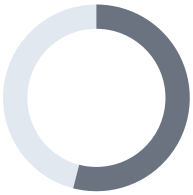
Early-stage bet · Figure AI Inc.



#4 **Lift unit for mobile robots using inclined…**

Watch competitor · LG ELECTRONICS INC.

TOP PICK



#1 Drone control shows lag with on-screen markers

Web-Based Drone Control Interface With Augmented Reality Overlays

Watch competitor | **Robotics** | **#1 of 38 screened in sample window**

Applicant: Skydio, Inc. • **Inventor:** Divyanshu Pachisia +4 • **Entity:** Regular Undiscounted • **CPC:** G05D 1/223, G05D2109/20, G05D 1/2249

Pub. No. US20260339319A1 • App. No. 19656237 • Filed 2026-04-23 • Published 2026-10-29



Moderate claims by drone leader on lag visualization via markers

WHY THIS ONE STANDS OUT

The problem it solves: Operator cannot easily see lag between commanded UAV position and actual reported state

Who would pay for it: Drone operators needing precise remote control in delayed video links

Likely buyers & why: DJI: needs to avoid marker separation method for lag indication; Autel: similar teleoperation products would practice the claimed indicators

What makes it hard to copy: Easy to copy by using different visual cues instead of current and commanded markers

WHAT TO DO NEXT

1. VCs should track Skydio's related published applications for claim scope changes
2. IP counsel should compare the dual-marker rendering steps against existing drone control products

View USPTO publication (PDF) →

Source: USPTO Open Data Portal (published applications). Scores and analysis generated by Grok. Not legal or investment advice.

THE FULL RANKING

PatentPulse Signal Score (0–100): market pull 25% · acquisition interest 25% · defensibility 20% · innovation 15% · timing 15%, each scored by Grok from the application's abstract and independent claims. Honest absolute scale: a typical published application scores lower; 65+ is strong; 75+ is exceptional. Published applications are not granted patents; claims may change.



#2 Adaptable suction gripper using membrane and pressure

METHOD AND APPARATUS FOR AN ADAPTABLE SUCTION DEVICE

Early-stage bet | Robotics | #2 of 38 screened in sample window

Applicant: Nexera Robotics Corp. • **Inventor:** Sepehr Sheikholeslami +2 • **Entity:** Small • **CPC:** B25J 15/0616, B65G 47/91, B25J 15/0023

Pub. No. US20260326315A1 • App. No. 19730940 • Filed 2026-07-03 • Published 2026-10-22



Broad claim 1 on wall-membrane-pressure gripper; small applicant; robotics market.

WHY THIS ONE STANDS OUT

The problem it solves: Grasping wide variety of objects with suction and gripping forces

Who would pay for it: Firms needing versatile object handling in automation

Likely buyers & why: Robotics firms needing adaptable grippers

What makes it hard to copy: Broad claim 1 elements make design-around difficult without avoiding wall-membrane-pressure cooperation

WHAT TO DO NEXT

1. VC: monitor assignee for related filings or partnerships
2. IP counsel: review full claim set and cited references for scope

Key risks: Small applicant status; Continuation application status • **Alice/§101:** Low – physical device claims

View USPTO publication (PDF) →

Source: USPTO Open Data Portal (published applications). Scores and analysis generated by Grok. Not legal or investment advice.



#3 Wearable gear captures movements to train humanoid robots

HUMANOID ROBOT DATA COLLECTION SYSTEM HAVING VIRTUAL REALITY DISPLAYS

Early-stage bet | Robotics | #3 of 38 screened in sample window

Applicant: Figure AI Inc. • **Inventor:** Victor Ragusila +5 • **Entity:** Small • **CPC:** G05D 1/2245, G05D 1/2285, G05D2111/52 +10

Pub. No. US20260339321A1 • App. No. 19656881 • Filed 2026-04-23 • Published 2026-10-29



Moderate hardware claims, small applicant, notable clutch and sensor details in large robotics market.

WHY THIS ONE STANDS OUT

The problem it solves: Capturing operator movements to control or train a humanoid robot while suspending data on unsafe motions.

Who would pay for it: Companies building humanoid robots that need operator motion data for training or remote piloting.

Likely buyers & why: Any established robotics firm needing wearable data rigs with motion limits

What makes it hard to copy: Specific combination of back harness, pivoting arms with encoders, sensor gloves and resumption gestures.

WHAT TO DO NEXT

1. Review the full claim set and any cited references for overlap with existing products
2. Track future office actions or allowances on this application

Key risks: Claims may narrow during prosecution; Small applicant with no recorded allowance yet • **Alice/§101:** Low – physical wearable device with sensors and mechanical arms

View USPTO publication (PDF) →

Source: USPTO Open Data Portal (published applications). Scores and analysis generated by Grok. Not legal or investment advice.



#4 Lift unit for mobile robots using inclined actuators

AUTONOMOUS MOBILE ROBOT AND LIFT UNIT

Watch competitor | Robotics | #4 of 38 screened in sample window

Applicant: LG ELECTRONICS INC. • **Inventor:** Sanghak LEE +4 • **Entity:** Regular Undiscounted • **CPC:** B25J 11/008, B66F 9/063, B25J 5/00 +11

Pub. No. US20260327052A1 • App. No. 19099400 • Filed 2025-01-28 • Published 2026-10-22



Moderate mechanical lift claims from established robotics applicant

WHY THIS ONE STANDS OUT

The problem it solves: Transporting a loaded structure while driving horizontally using horizontal driving force.

Who would pay for it: Companies building autonomous mobile robots for lifting and transport

Likely buyers & why: Amazon: warehouse robots need height-adjustable lifts; Teradyne: robotics division uses mobile lift units

What makes it hard to copy: Must replicate the opposite-direction actuators and inclination modules with rollers to infringe claim 1.

WHAT TO DO NEXT

1. Compare the actuator and inclination module elements against your current robot lift designs this week
2. Search for the continuation parent application to review earlier claim versions

Key risks: Claims may narrow during prosecution; Continuation status suggests related filings exist • **Alice/§101:** Low – physical mechanical device with hardware elements

View USPTO publication (PDF) →

Source: USPTO Open Data Portal (published applications). Scores and analysis generated by Grok. Not legal or investment advice.

Pick to Act On: diligence plan

One-page plan for the top-ranked application in this brief.

What it claims	System receives UAV state, takes input for target position, sends command, and shows separate current and target markers in video to indicate lag
For investors	Skydio filing adds specific visual feedback for teleoperation lag in browser-based drone control
For IP counsel	Published claims stand unrejected; monitor for office actions on the position-command and dual-marker elements
Alice / §101 risk	Medium – software claims include specific rendering of state markers tied to UAV telemetry
Acquirers to watch	• AeroVironment: operates UAVs that could use lag visualization for precision control • Shield AI: develops drone autonomy and may need compatible operator interfaces

DILIGENCE CHECKLIST (3–5 DAYS)

1. Does Skydio already ship a browser interface matching the dual-marker description?
2. Are there related continuations or foreign filings on the same lag visualization?
3. What is the priority date, and how many independent claims are likely to survive Alice/Mayo analysis?
4. Are continuation or divisional applications pending?
5. What is the filing footprint beyond the USPTO (PCT, EP, CN, JP)?

KEY RISKS

- Claims may narrow during examination
- High-level software elements face section 101 scrutiny
- Competitors can avoid by using different visual feedback methods

PLAYBOOK BY ROLE

VCs / founders: identify the assignee; if it is a startup, explore licensing or an early investment conversation.

IP counsel: pull the published claims and file wrapper; assess freedom-to-operate and continuation strategy.

Strategic buyers: add to the watchlist and track prosecution; claims may change before grant.

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