

Universal Receipt Contact Protection Licensing Opportunity

Fingertip Protection Material (Circular Form)

Licensing Opportunity Consumer, Retail & Occupational Safety

- Circular fingertip applied protective material
- Protects against chemical exposure from receipts (e.g. BPA)
- Patent approved

Market context

Thermal paper receipts are used globally across retail, banking, hospitality, logistics, healthcare administration, and consumer transactions. Growing awareness of chemical exposure from receipt handling has increased interest in practical, task-compatible protective solutions that do not disrupt workflow.

Executive Summary

This document outlines a patent-approved consumer and occupational safety innovation designed to reduce direct skin contact with thermal paper receipts, which are widely used across retail, service, and administrative environments.

The product is a small, circular, fingertip-applied protective element that acts as a physical barrier at the point of contact, while preserving dexterity, tactile feedback, and normal workflow.

The solution is designed for universal use

The opportunity is structured for international licensing to established PPE, consumer safety, and occupational health brands.

Status

- Patent approved
- Product designed for long term everyday use
- Seeking international licensing partners

The Problem

Thermal paper receipts are handled millions of times per day across multiple industries. These receipts rely on chemical surface coatings to enable printing.

Scientific and regulatory discussions have shown that:

- Certain receipt chemicals (historically BPA and related compounds) can transfer to skin
- Skin contact can be repetitive and prolonged
- Individuals have no control over receipt chemistry
- Full gloves are impractical for most receipt-handling tasks

Despite growing awareness, no task-compatible, targeted solution exists to reduce skin contact at the point of interaction.

Affected sectors

- Retail and cashiers
- Banking and finance
- Hospitality and food service
- Logistics and delivery
- Healthcare administration
- Government and public services
- Consumers handling receipts daily

The Solution

Concept

A circular protective material applied to the fingertip, acting as a barrier between skin and receipt paper while preserving full hand functionality.

Key benefits

- Protects against chemical contact (e.g. BPA)
 - Does not cover the full hand
 - Maintains dexterity and tactile control
 - Suitable for continuous daily use
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Product Features

- Lasts up to **6 months** per unit
 - Easy to put on and remove
 - Hypoallergenic and skin safe
 - Ergonomic design for prolonged comfort
 - Compatible with repetitive, fine motor tasks
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Differentiation

Why this is different

- Targeted fingertip protection instead of full gloves
- Practical for environments where gloves are impractical
- Designed for habitual, everyday use

Strategic advantage

- Extremely low behaviour change required
 - High compliance potential
 - Strong consumer and occupational safety appeal
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Competitor Analysis

Existing approaches focus on the receipt, not the user

Current industry responses centre on chemical substitution within thermal paper (e.g. “BPA-free” receipts).

Common alternatives include:

- Ascorbic acid (vitamin C-based developers)
- Urea-based developers (e.g. Pergafast)
- Other phenols and coating systems

Limitations of existing approaches

- Chemical substitution does not eliminate skin contact
- Long-term dermal exposure data for substitutes remains limited

- Adoption is inconsistent across retailers and regions
Individuals cannot choose which receipt chemistry they encounter

Competitive gap

There is currently no commercially available solution that provides targeted, task-compatible protection at the point of human–receipt interaction.

This patent addresses that gap.

Target Market

Primary users

- Cashiers and retail staff
- Bank tellers and office staff
- Hospitality and service workers
- Delivery and logistics personnel
- Healthcare administrative staff
- General consumers

Primary buyers

- Employers and organisations
- Retail chains and service providers
- Consumer safety and wellness brands
- Government and occupational safety programmes

Market Opportunity

Why this scales

- Global reliance on thermal paper receipts
- Increasing awareness of BPA exposure risks
- Applicable across nearly all service industries

Commercial characteristics

- Long lasting product (6 month lifespan)
 - Repeat replacement cycle
 - Strong private label and brand licensing potential
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Intellectual Property

Protection status

- Patent approved

IP value

- Protects the core concept and application method
 - Enables exclusive, territory based licensing
 - Creates a defensible consumer and occupational safety category
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Regulatory & Commercial Pathway

Regulatory positioning

- Consumer and occupational safety product
- No medical device claims required

Commercialisation approach

- License to established PPE, consumer safety, or wellness brands
- Partner manages manufacturing, branding, and distribution

Benefits of the Patent

Strategic advantages

- Creates a new protection category
- Targeted fingertip protection for receipt handling, distinct from gloves and paper-based solutions.
- Protects a use case, not a material
- Covers the interaction between human skin and receipts, independent of receipt chemistry.
- Harder to design around
- Competitors must either alter human behaviour or redesign receipt handling entirely.
- Cross-industry relevance
- Applicable across retail, banking, hospitality, logistics, healthcare administration, public services, and consumer use.
- Future-proof

- Remains relevant regardless of whether receipts are BPA-based, BPA-free, or use future substitute chemistries.
 - Licensing-friendly economics
 - Supports recurring value through replacement cycles and territory-based licensing.
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Licensing Opportunity

Seeking

- International licensing partners
- Territory based exclusivity arrangements

Economics

- Royalty based licensing model
 - Potential upfront licensing fees
 - Scalable global distribution
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Questions You May Have (FAQ)

Q: What if companies move to BPA-free receipts?

BPA-free receipts reduce one known risk but do not eliminate:

- Repeated skin contact
- Chemical coatings
- Exposure uncertainty
- Employer safety obligations

This solution provides **immediate, visible mitigation** without waiting for supply-chain change.

Q: What if BPA receipts disappear entirely?

The underlying issue is **thermal receipt contact**, not one chemical.

Even with new materials, receipts will continue to rely on:

- Coatings
- Developers
- Binders
- Transferable surface residues

This patent protects against **receipt contact itself**, making it resilient to future material changes.

Q: Does this replace gloves?

Yes.

Gloves are impractical to use in the environment consumers and retailers are in

Q: Why hasn't this been done before?

Existing solutions focus on:

- Changing paper chemistry
- Changing behaviour

This patent addresses the **exposure pathway directly**, which represents a new approach.

Q: Why would employers pay for this if employers aren't getting sick?

This product isn't about reducing sick days it's about reducing exposure and liability in a task employees perform hundreds of times a day, where gloves aren't practical and alternatives don't exist.

Thermal paper receipts rely on chemical surface coatings to enable printing. Scientific studies have shown that certain receipt chemicals, including BPA and some substitutes, can transfer to human skin during handling and be absorbed through repeated contact. While many jurisdictions have encouraged BPA-free alternatives, chemical substitution does not eliminate skin contact or exposure pathways. As a result, occupational and regulatory discussions increasingly focus on exposure-reduction strategies that limit direct contact with receipt surfaces, particularly in high-frequency handling environments.

<https://pmc.ncbi.nlm.nih.gov/articles/PMC3261950/>

<https://pubmed.ncbi.nlm.nih.gov/25175590/>

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<https://ceh.org/latest/press-releases/touching-1-receipt-for-10-seconds-results-in-exposure-to-the-chemical-bps-above-the-safe-limit/>

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https://en.wikipedia.org/wiki/Health_effects_of_Bisphenol

<https://en.wikipedia.org/wiki/Bisphenol>

<https://journals.plos.org/plosone/article?id=10.1371%2Fjournal.pone.0178449&utm>

Invitation

Open to discussions regarding licensing, strategic partnerships, and global rollout.

Evaluation can be looked after a NDA is signed