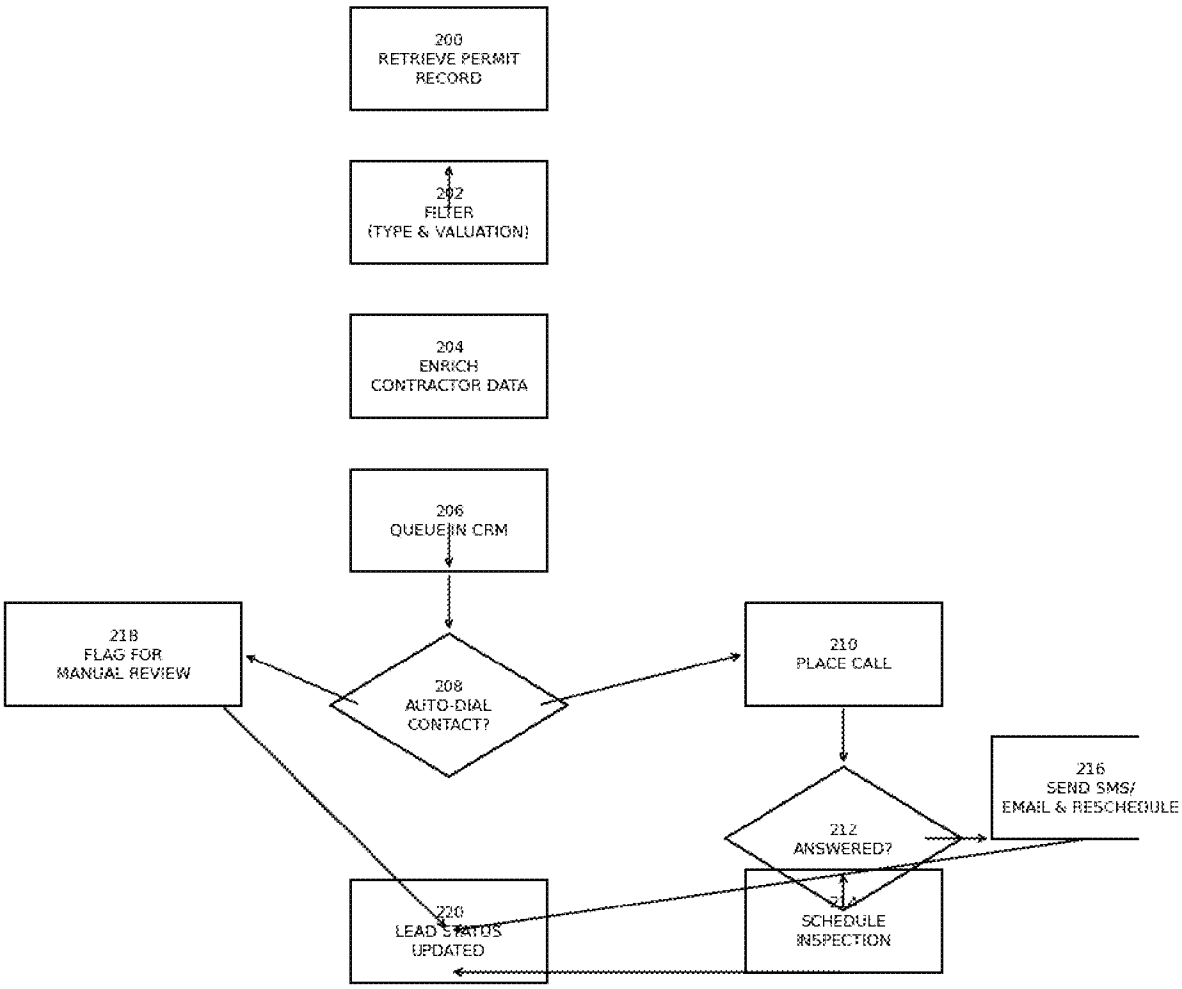


FIG 1

FIG. 1 • System-Level Block Diagram

(All caps labels; solid boxes; signal arrows; reference numerals 100-199)

Ref. No.	Element

100 CENTRAL PLATFORM SERVER (cloud symbol)

102 DATA INGESTION ENGINE

104 PERMIT API CONNECTOR (LADBS SHOWN)

106 CSV UPLOAD HANDLER

110 LEAD FILTER / RULE ENGINE

120 ENRICHMENT SERVICE (LICENCE DB, GEO, CONTACT DB)

130 CRM & OUTREACH MODULE

132 AUTODIAL SUBSYSTEM

134 EMAIL/SMS SUBSYSTEM

140 INSPECTION & VALUATION ENGINE

142 DRONE CONTROL INTERFACE

144 AI APPRAISAL MODEL

150 DECISION ENGINE (DONATION ∨ CASH)

160 DOCUMENT GENERATOR

162 E-SIGN SERVICE API

170 DASHBOARD / ANALYTICS UI

180 ALERTING & MONITORING SERVICE

190 EXTERNAL APPRAISER PORTAL

192 NONPROFIT / FOR-PROFIT PARTNER PORTAL

Fig 2

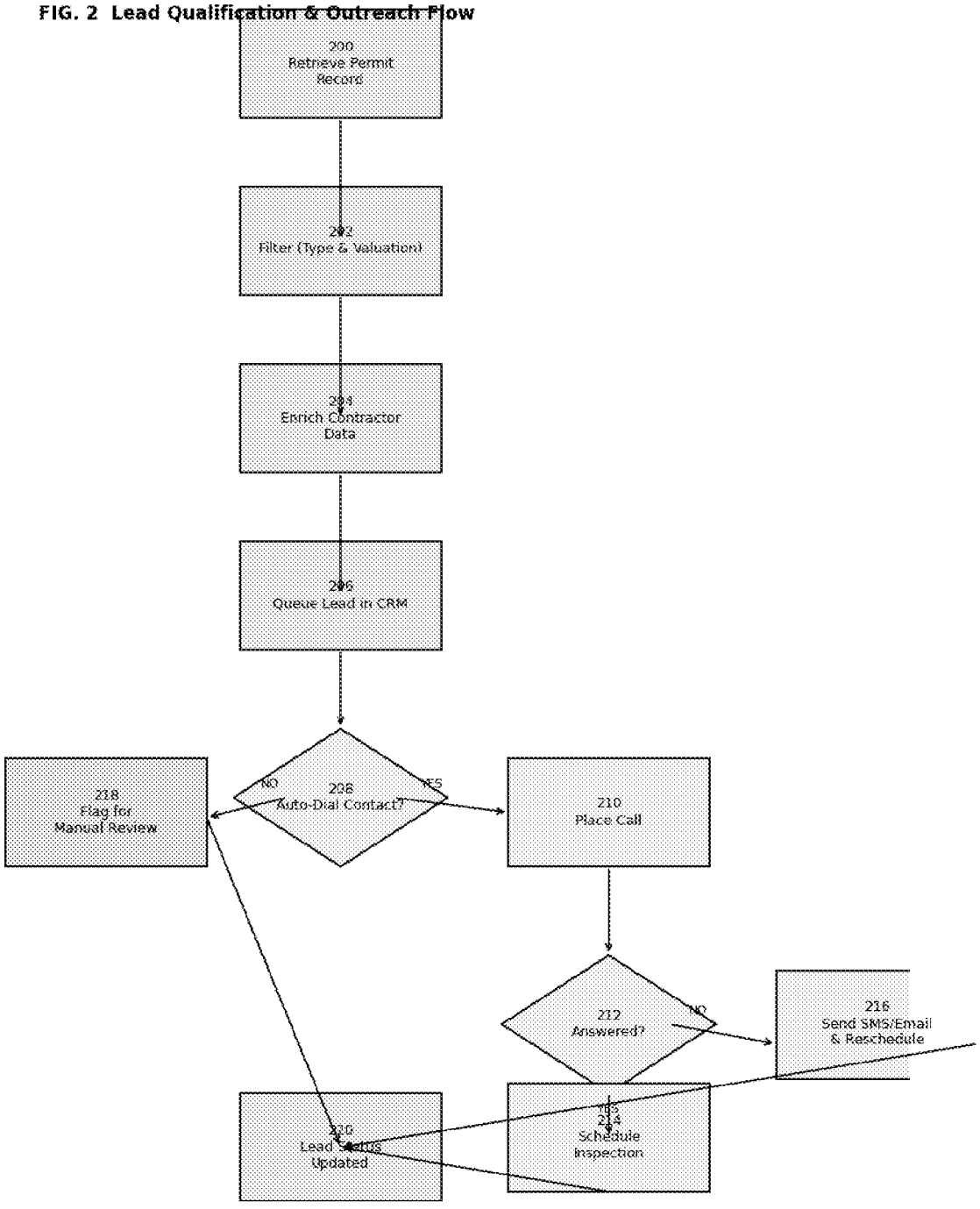
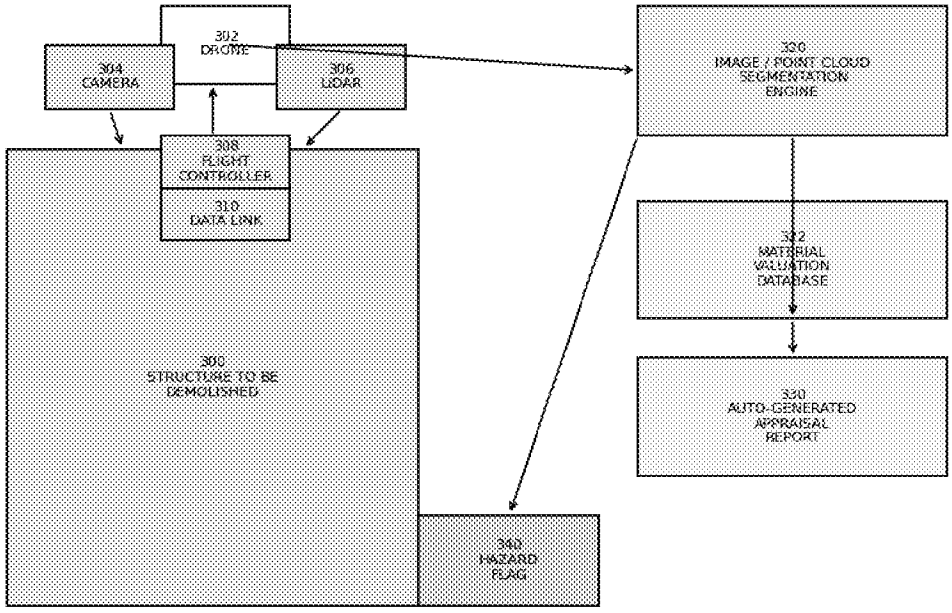


FIG. 2 Lead Qualification & Outreach Flow
200
Retrieve Permit Record
202
Filter (Type & Valuation)
204
Enrich Contractor Data
206
Queue Lead in CRM
208
Auto-Dial Contact?
NO
YES
218
Flag for Manual Review
210
Place Call
212
Answered?
NO
216
Send SMS/Email & Reschedule
YES
214
Schedule Inspection
220
Lead Status Updated

Ref. No.	Step	Colour
200	Retrieve Permit Record	blue
202	Filter (Type & Valuation)	blue
204	Enrich Contractor Data	blue
206	Queue Lead in CRM	blue
208	*Decision* – Auto-Dial Contact?	orange diamond
210	Place Call	green
212	*Decision* – Answered?	orange diamond
214	Schedule Inspection (YES)	green
216	Send SMS/Email & Reschedule (NO)	green
218	Flag for Manual Review (NO from 208)	pink
220	Lead Status Updated (merged finish)	blue

Arrows show the main path, YES/NO branches, and convergence to final status.

FIG. 3 Drone-Assisted Appraisal Subsystem



The drawing illustrates:

- **300** Structure (grey) scheduled for demolition.
- **302** Drone (yellow) with onboard **304** Camera and **306** LiDAR sensors (pink).
- **308** Flight Controller and **310** Data Link modules relay visual/point-cloud data to the cloud.
- Cloud pipeline: **320** Image/Point-Cloud Segmentation Engine (blue) → **322** Material Valuation Database (green) → **330** Auto-Generated Appraisal Report (orange).
- Segmentation also triggers **340** Hazard Flag (e.g., asbestos) when detected (pink).
- Black arrows show data flow from sensors to cloud analysis, valuation, report generation, and hazard alert.

FIG. 4 Decision & Contract Generation Logic

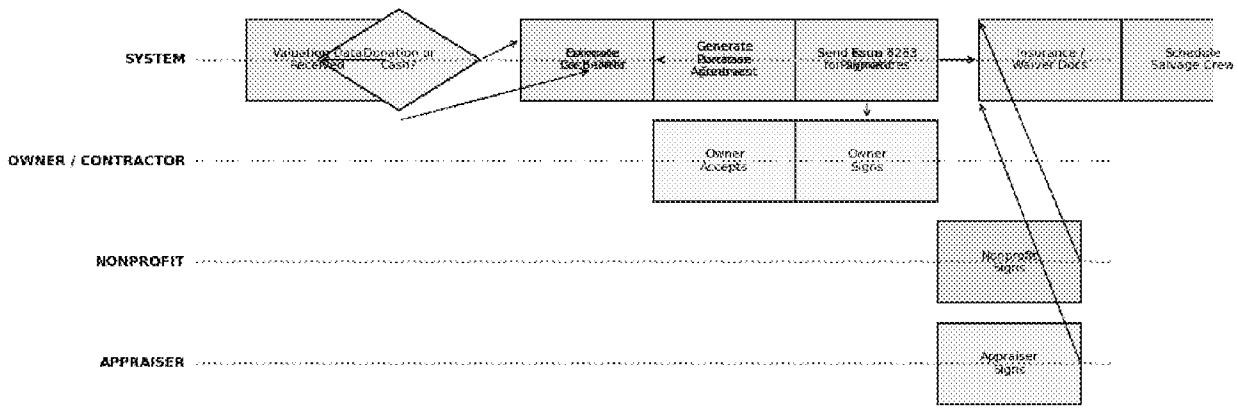
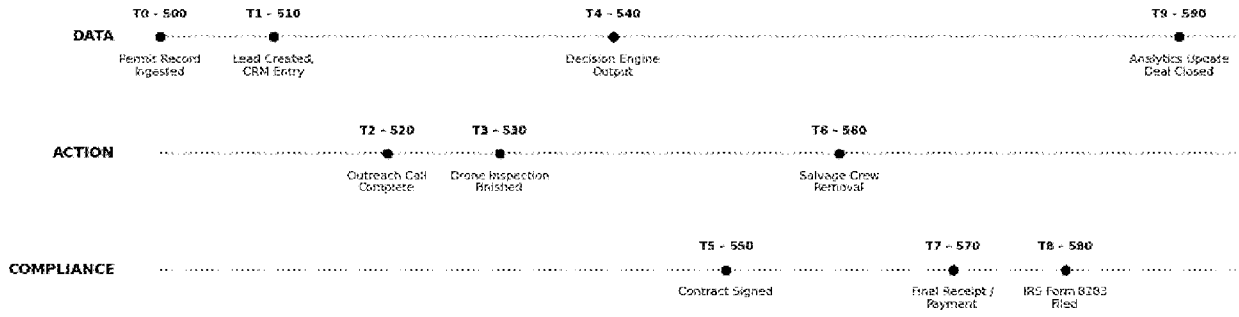


FIG. 4 – Decision & Contract Generation Logic (Swim-Lane Diagram)

The diagram shows four horizontal lanes (*System, Owner/Contractor, Nonprofit, Appraiser*).

- Valuation data reaches the **System** lane, enters a diamond ("Donation or Cash?").
- **Donation path** flows right across the System lane, then down for signatures from Owner, Nonprofit, and Appraiser.
- **Cash path** stays within the System and Owner lanes (compute offer → purchase contract → payment).
- Both paths merge at "Insurance / Waiver Docs" and finish at "Schedule Salvage Crew."

FIG. 5 End-to-End Timeline & Data Artefacts



A three-lane horizontal timeline showing the sequence from *T0* (permit ingestion) to *T9* (analytics close-out).

- **DATA lane:** T0 500 → T1 510 → T4 540 → T9 590
- **ACTION lane:** T2 520 → T3 530 → T6 560
- **COMPLIANCE lane:** T5 550 → T7 570 → T8 580

This clean, PCT-ready schematic matches the style you requested—black line art with dotted lane guides, bold time-codes, and concise annotations. If you need SVG or PDF export—or tweaks to spacing, fonts, or colours—just say the word.

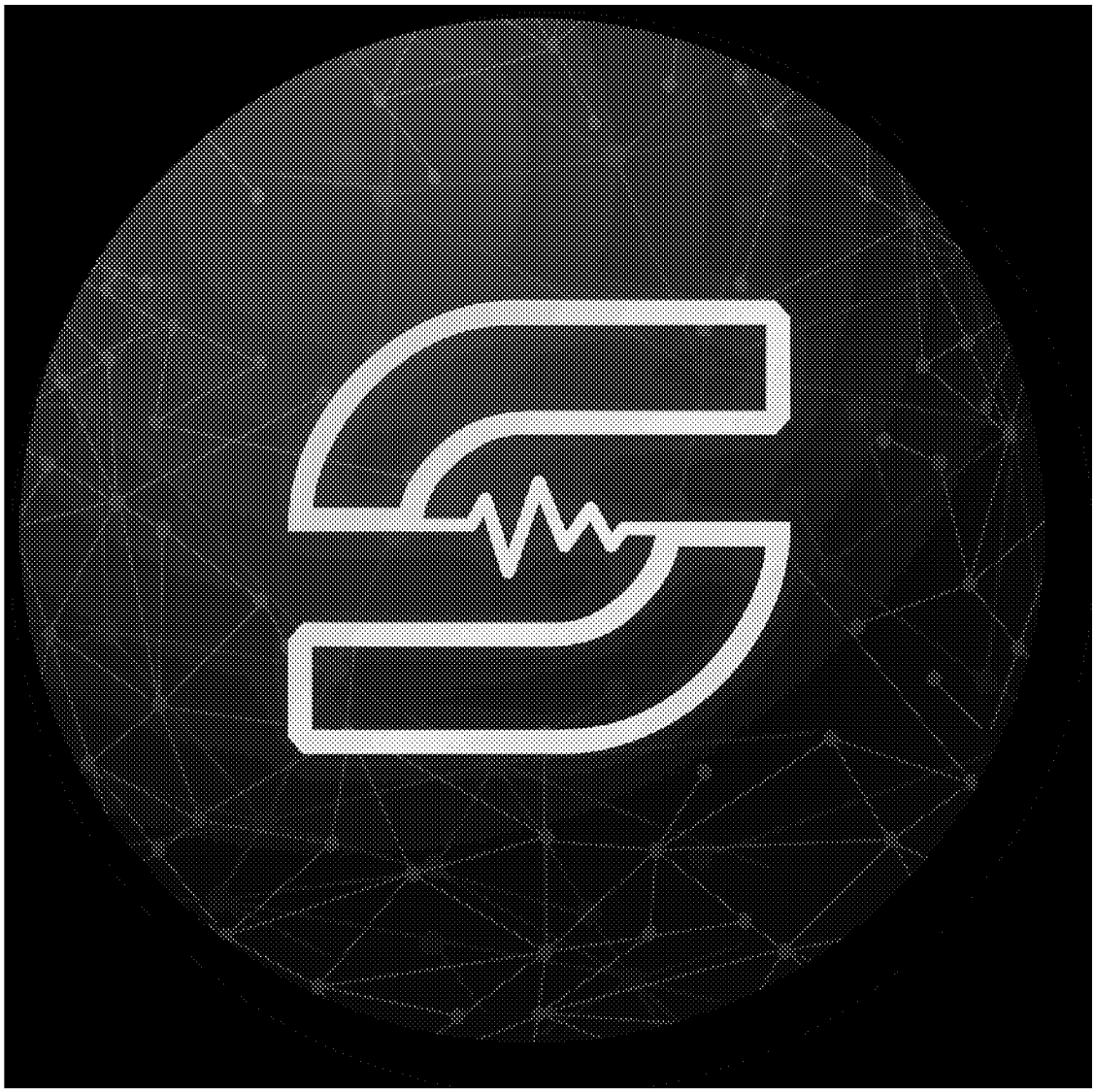


Figure A: Example icon/logo from the Sonic Lead CRM module, which is integrated into the system's outreach component. This emblem represents the telephony and automation capabilities reused in the system's calling module (enabling auto-dialing, call tracking, and rep performance metrics).

Figure D: An icon representing a receipt or document. The system automatically generates paperwork such as donation receipts (for tax purposes) and purchase contracts. These documents are delivered electronically and can be signed digitally, streamlining the legal and compliance aspects of salvage transactions.

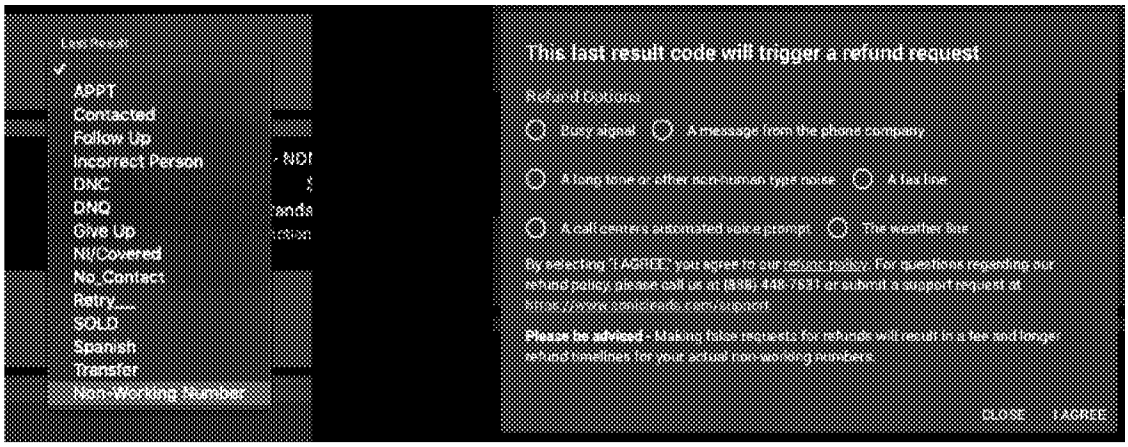


Figure B: A snapshot of a CRM user interface for call outcome logging. In this example, after a call, the agent selects the result (e.g., **Non-Working Number**, *Appointment set*, *No Contact*, etc.) and triggers automated follow-up workflows. Our system's CRM module provides similar outcome codes and automated next steps, ensuring each lead is systematically worked and updated.

Figure C: Drone-based inspection of a construction site. Drones equipped with cameras and LiDAR can quickly survey structures scheduled for demolition, capturing imagery of beams, fixtures, and other materials. The system's appraisal software analyzes such visual data to identify salvageable components and estimate their value, enabling data-driven decisions on salvage operations.