POCHE

Making beautiful structures is the result of optimizing truss design

ml Robles, Inventor and Founder

United States Patent

(12) **United States Patent**
Robles

(10) Patent No.: US 12,227,946 B2
(45) Date of Patent: Feb. 18, 2025

(54) WALL ROOF TRUSS BUILDING SYSTEM
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(77) Inventor: Mary Lou Robles, Boulder, CO (US)
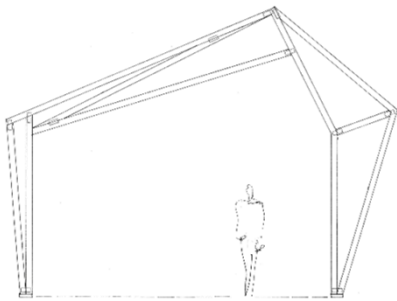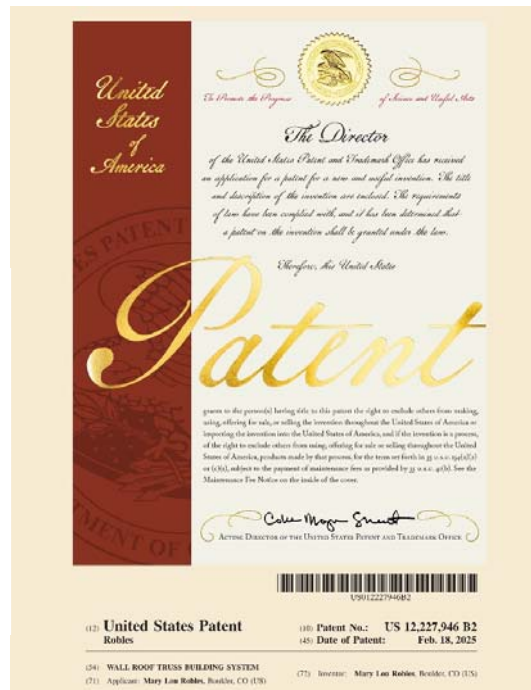
PROOF
9-2025
PRIVATELY OWNED
684SF ADU
BOULDER, COLORADO

Poche: the space between inside and outside / **Poche**: truss building frame that includes wall and roof / **Poche Optimizer**: the truss design software company

POCHE

POCHE TRUSS FRAME IN ACTION!

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POCHE

THE SITUATION

SMALL BUILDINGS ARE REQUIRED TO MEET ROBUST ENERGY AND ENVIRONMENTAL METRICS WITHIN A SMALL SHELL AND ARE ASKED TO BE AFFORDABLE DUE TO SIZE YET PROVIDE FULL CAPACITY PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS.

SMALL BUILDINGS ARE CLOSELY PRESSED BY THE WEATHER, GEOGRAPHY, AND CONTEXTUAL PHENOMENA AND DUE TO SIZE POSSESS THE OPPORTUNITIES TO ESTABLISH PASSIVE RESPONSES TO THE ELEMENTS ALL THE WHILE CREATING A DEEP CONNECTION BETWEEN THE INSIDE AND OUTSIDE.

PROBLEM

SMALL BUILDING OWNERS, DESIGNERS, AND BUILDERS NEED THEIR BUILDINGS
TO MEET ENERGY AND FUNCTIONAL PERFORMANCE CRITERIA AND TO ALSO BE AFFORDABLE.

SOLUTION

POCHE OFFERS A COST AND TIME SAVING MANUFACTURED TRUSS SOLUTION TO FRAMING A SMALL BUILDING WHILE ESTABLISHING EASE FOR SYSTEMS ACCESS AND ROBUST INSULATION.

THE TRUSS BASED SYSTEM BRINGS INHERENTLY CUSTOMIZABLE FORM-MAKING TO RESPOND TO PROGRAMMATIC AND ENVIRONMENTAL CRITERIA WITHIN CONVENTIONAL INDUSTRY MEANS AND METHODS.

16% OF THE TIME AND LESS THAN 1/2 THE COST OF CONVENTIONAL FRAMING

3XXX MORE WALL AND ROOF DEPTH FOR EASE OF SYSTEMS ACCESS AND ROBUST COST EFFECTIVE INSULATION

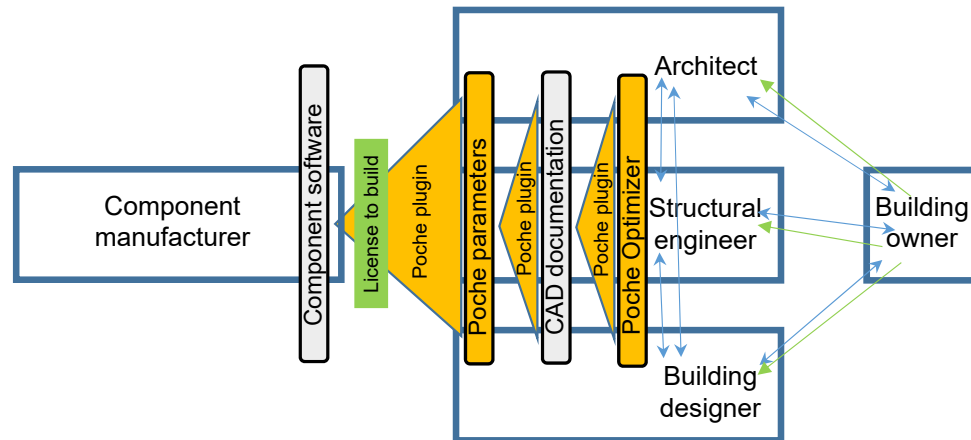RESPONDS TO THE ELEMENTS NATURALLY: NO GUTTERS, NO ADDED OVERHANGS: SAVE TIME, MATERIALS, $, AND MAINTENANCE

POCHE ADU
video link

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POCHE

ECOLOGY OF POCHE OPTIMIZER SOFTWARE 11-12-2025

POCHE DESIGN BEGINS WITH THE ARCHITECT, STRUCTURAL ENGINEER AND/OR DESIGNER WHO USE IT TO PRODUCE A TRUSS DESIGN WHICH IS THEN PLUGGED INTO CAD TO BE INFORMED BY THE OVERALL PROJECT WHERE THE TRUSS PARAMETERS ARE ARTICULATED BEFORE GOING OFF TO THE COMPONENT MANUFACTURER FOR MANUFACTURING WITH A LICENSE TO PRODUCE THE DESIGN.
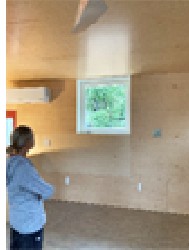
Poche: the space between inside and outside / Poche: truss building frame that includes wall and roof / Poche Optimizer: the truss design software company

P O C H E

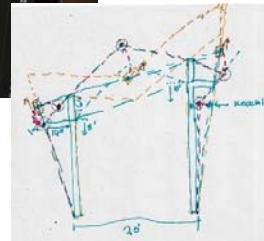Making beautiful structures is the result of optimizing truss design

POCHE OPTIMIZER

DESIGNER
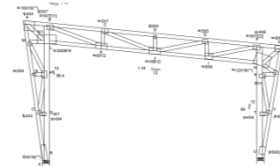
DESIGNER USING
SUBSCRIPTION SOFTWARE
PRODUCING BUILDING FORM

FORM DESIGN
& ARTICULATED

**FEE PER UNIT
LICENSE** TO BUILD

MANUFACTURER

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P O C H E

STATUS 12-05-2025

THE POCHE OPTIMIZER TEAM CONSISTS OF ml ROBLES.
- Looking for co-founder entrepreneurial lead and design software developer to take the software into beta for testing so that ml can activate early adopters and introduce at conferences.

THE SOFTWARE DOES NOT EXIST.
- After a meeting with JOHN BACUS, 11-12, he does not see the software as a complex problem. I'd like to get 6-month funding to get software to beta testing so that it can hit the design industry. Looking for software developer and funding.

NEED TO GET STRATEGIC INDUSTRY AND PROFESSIONAL ASSOCIATIONS PARTNERSHIPS IN PLACE TO GET POCHE IN FRONT OF DESIGNERS AND CREATE DEMAND MOMENTUM.
- ml is forming an early adopter group of designers and architects to test the software and also seeking talking opportunities at industry conferences.

NEED TO UNDERSTAND THE LICENSING PROCESS AND OPTIONS
- CU ENTREPRENEURIAL LAW CLINIC is considering in their assignments for 2026 Reached out 10-28-2025, they are assembling the teams for Spring semester, will see if I get assigned to a team.

- OEDIT: grant?? Need to reach out and see if this is an option for the seed funding to get the software to beta and to testing group.