

# Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

## J.T. CLEVINGER Agricultural and Light Industry Engineer

Over 35 years experience in the design, development, and evaluation of agricultural, light industrial and lawn/garden equipment. Knowledgeable in the design, operation and evaluation of a multitude of products including, but not limited to, those listed below.

**Light Industrial:** Skid steer loaders, wheel loaders, industrial tractors, tractor loader backhoes, rough terrain forklifts, feller-bunchers, trenchers, line layers, horizontal boring equipment, leaf loaders, industrial dryers. 6 U.S. Patents granted.

**Lawn and Garden:** Lawn tractors, garden tractors, mowers, leaf rakes, compost spreaders, zero turn mowers.

**Agricultural:** Sickle bar mowers, disc mowers, rakes, disc and sickle bar mower conditioners, Self propelled windrowers, box manure spreaders, tank manure spreaders, side delivery spreaders, tub grinders, grinder-mixers, elevators, wagons, forage boxes, forage blowers, small and large square balers, bale throwers, round balers, bale wrappers, bale wagons and carriers, forage harvesters, SP forage harvesters, windrow inverters and mergers, tandem and offset discs, liquid manure handling equipment. 25 U.S. Patents granted

### PROFESSIONAL EXPERIENCE

- 2006 to present **Robson Forensic, Inc.**  
*Associate*  
Provide technical investigations, analysis, reports, and testimony towards the resolution of commercial and personal injury litigation involving heavy equipment and failure analysis.
- 2001 to present **J.T.Clevenger**  
*Consultant*  
Reclassify patents for a design engineering firm. Also provide technical investigations, analysis, and testimony in product liability cases.
- 1966 to 2001 **New Holland North America, Inc.**  
(formerly Ford New Holland, Sperry New Holland)  
*Manager Haytools Product Engineering* 1997-2001  
Responsible for all engineering competence center engineers assigned to Haytools Global Platform Team. Supervised and coordinated competence center activities. Provided engineering support services such as product evaluation, lab test and prototype build. Assisted in development and implementation of new manufacturing technologies. Developed and documented engineering design and testing procedures for ISO9000 compliance.

# Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

## **J.T. CLEVINGER** **Agricultural and Light Industry Engineer**

*Chief Engineer Haytools Global Products* 1996-1997  
Responsible for design and development of all new and current Haytools products. Supervised four product development and two current product teams. Major products included hay harvesting and processing equipment such as mowers, mower conditioners, forage harvesters, square and round balers, bale wagons and spreaders.

*Chief Engineer Hay Harvesting Equipment* 1993-1996  
Supervised and coordinated the product design activities related to balers, haytools, forage harvesters, and bale wagons utilizing the team approach. Planned and managed for profit, growth, and increased market share. Assisted in development and translation of strategic plans into specific product objectives and guidelines for Product Engineering. Played a major role in establishing product development teams and corresponding processes.

*Design Manager Round Balers* 1991-1993  
Supervised the development and introduction of a new, unique line of round balers using a combination of belts and rolls. Three baler models were designed and released for operating worldwide.

*Executive Engineer* 1988-1991  
Responsible for product engineering on new and current light industrial and agricultural products. Supervised four design sections covering various products including industrial tractors, tractor loader backhoes, skid steer loaders, mowers, mower conditioners, round and square balers, bale wagons and manure spreaders.

*Director Research and Development* 1985-1988  
As leader of the R&D effort, spearheaded the development of several new products including leaf loaders, windrow inverters, and roll belt round balers. Maintained contact with university research facilities in NA.

*Design Manager* 1976-1985  
Responsible for the design, development and maintenance of light industrial products, round balers and manure spreaders. Also had design responsibilities for wagons and industrial dryers. The design group developed the first roll floor chamber round baler, a complete new line of side delivery spreaders, a new box spreader line and completely redesigned the medium and large frame skid steer loaders. A new tandem axle wagon and large box spreader were also introduced. Tillage products and an articulated loader backhoe were also added to the product line.

# Robson Forensic

Engineers, Architects, Scientists & Fire Investigators

## J.T. CLEVINGER Agricultural and Light Industry Engineer

*Project Engineer* 1972-1976  
As lead engineer on new products, directed engineering activities associated with the release and introduction of three new self propelled trenchers with corresponding vibratory line layers, borers, and backfill attachments. Developed all new small frame skid steer loaders and higher HP large frame units.

*Senior Design Engineer* 1969-1972  
Assisted in the design and release of 8 and 10 HP lawn and garden tractors and attachments. Worked on various components of the ground and attachment drivelines. Developed the axle and final drive for a large self propelled square baler. Worked with other engineers to design a skid steer loader with unique, patented lift linkage. Released the first skid steer loader for the company.

*Design Engineer* 1968-1969  
While in the R&D department, developed a 100+HP multi purpose harvesting vehicle that could quickly be converted from harvester to corn sheller, sprayer, combine, etc. with minimal tools. Also developed a small lawn rake with bagger attachment for operation behind garden tractors.

*Junior Engineer Product Evaluation* 1966-1968  
Assigned to various test groups to field evaluate engineering prototype machines. Worked with operators to evaluate performance of hay and harvester prototypes.

1964 to **Virginia Tech**  
1966 *Graduate Assistant*  
Instructed labs in farm machinery operation, rural electrification, household equipment and surveying.

## EDUCATION

M.S., Agricultural Engineering, Virginia Tech, 1966  
B.S., Agricultural Engineering, Virginia Tech, 1964

## PROFESSIONAL MEMBERSHIPS

Society of Automotive Engineers (SAE)  
American Society of Agricultural and Biological Engineers (ASABE)