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## G96-1287 Design of a Spring-Loaded Gate Latch For Swine Breeding Facilities

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Levis, Donald G.; Gilmore, Charlie; and Bodman, Gerald R., "G96-1287 Design of a Spring-Loaded Gate Latch For Swine Breeding Facilities" (1996). *Historical Materials from University of Nebraska-Lincoln Extension*. 604.

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## Design of a Spring-Loaded Gate Latch For Swine Breeding Facilities

**This publication offers plans and discussion of the spring-loaded gate latch used in swine breeding facilities.**

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Swine breeding facilities function more smoothly when gates have latches that can be worked easily and quickly. A gate latch should be designed so the latch can be released (or fastened) and the gate opened (or closed) with a continuous motion using only one hand. The illustrated gate latch design has worked well in a swine breeding facility. The latch design allows a gate in the partition between two breeding pens to swing into either breeding pen (*Figure 1*).



The design also allows breeding pen gates to be locked open when moving animals into a breeding pen. For the gate to be locked open an extra catch plate needs to be appropriately located for the solid shaft to lock into. Since this gate latch allows a gate to swing at only one end, two gates that swing at opposite ends should be installed on the alley side of each breeding pen. Be sure all corner post are securely fastened to(or) in the floor so they will not move.

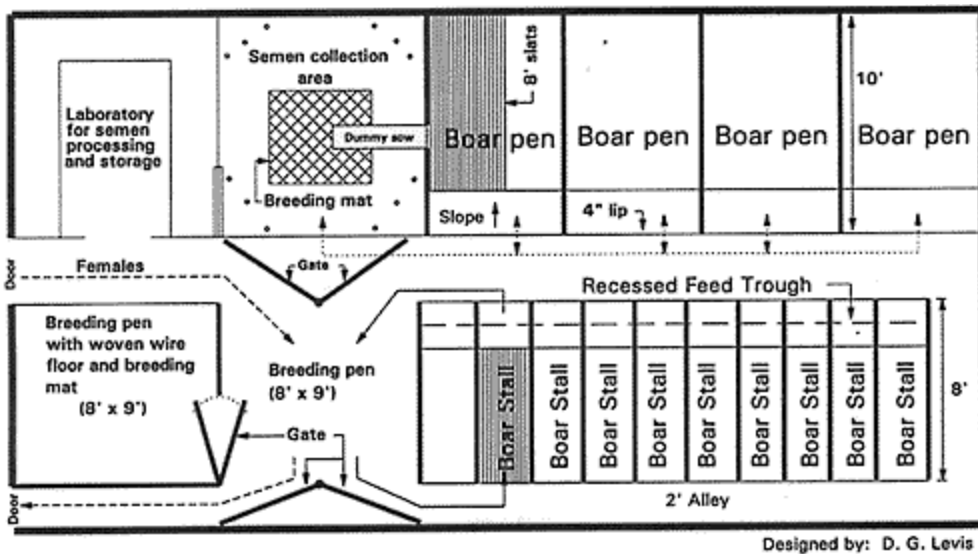
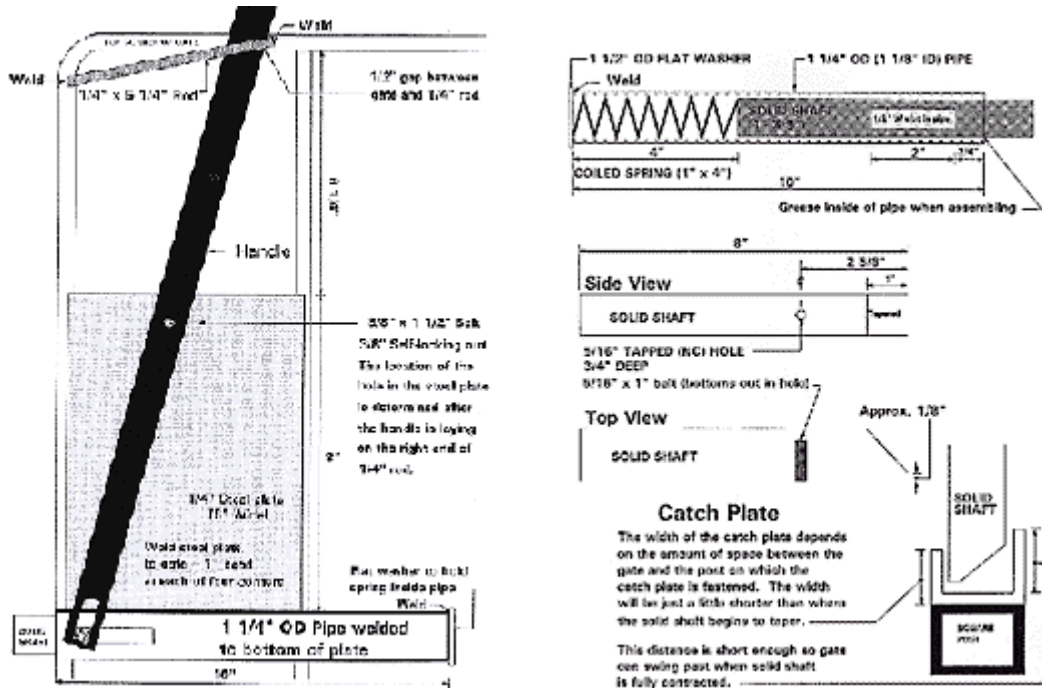
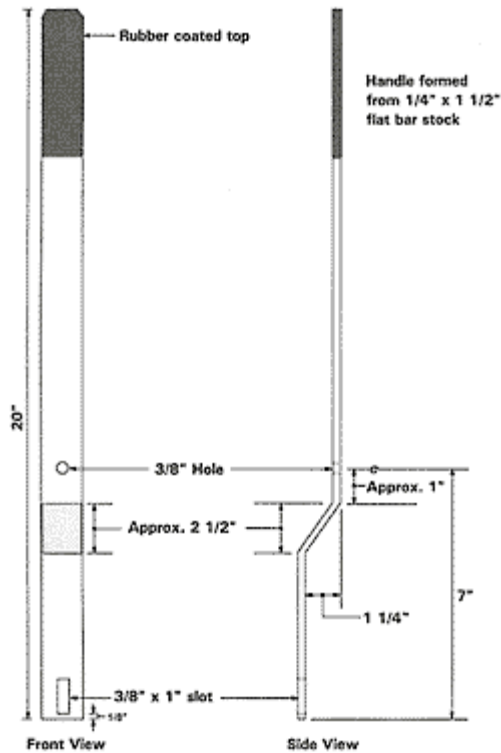


Figure 1. Hand-breeding/artificial insemination facility containing boars, breeding pens, semen collection pen and laboratory.



[Diagram of latch \(above\) -- 50KB GIF](#)

[Catch plate diagram \(above\) -- 51KB GIF](#)



[Drawing of handle \(above\) -- 35KB GIF](#)

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**File G1287 under: FARM BUILDINGS**  
**C-9, Swine Housing & Equipment**  
Issued April 1996; 3,000 printed.

*Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Elbert C. Dickey, Director of Cooperative Extension, University of Nebraska, Institute of Agriculture and Natural Resources.*

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