

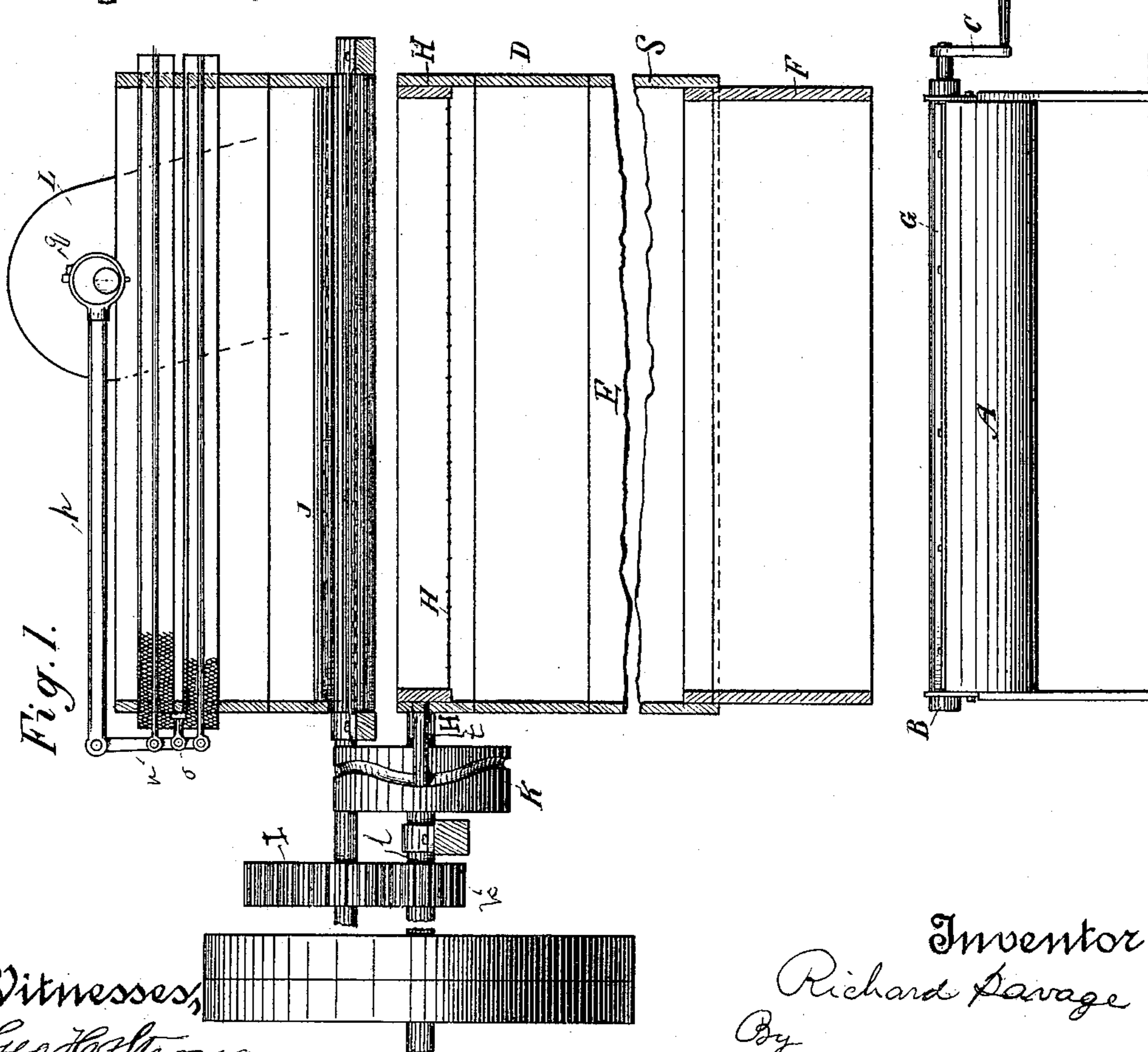
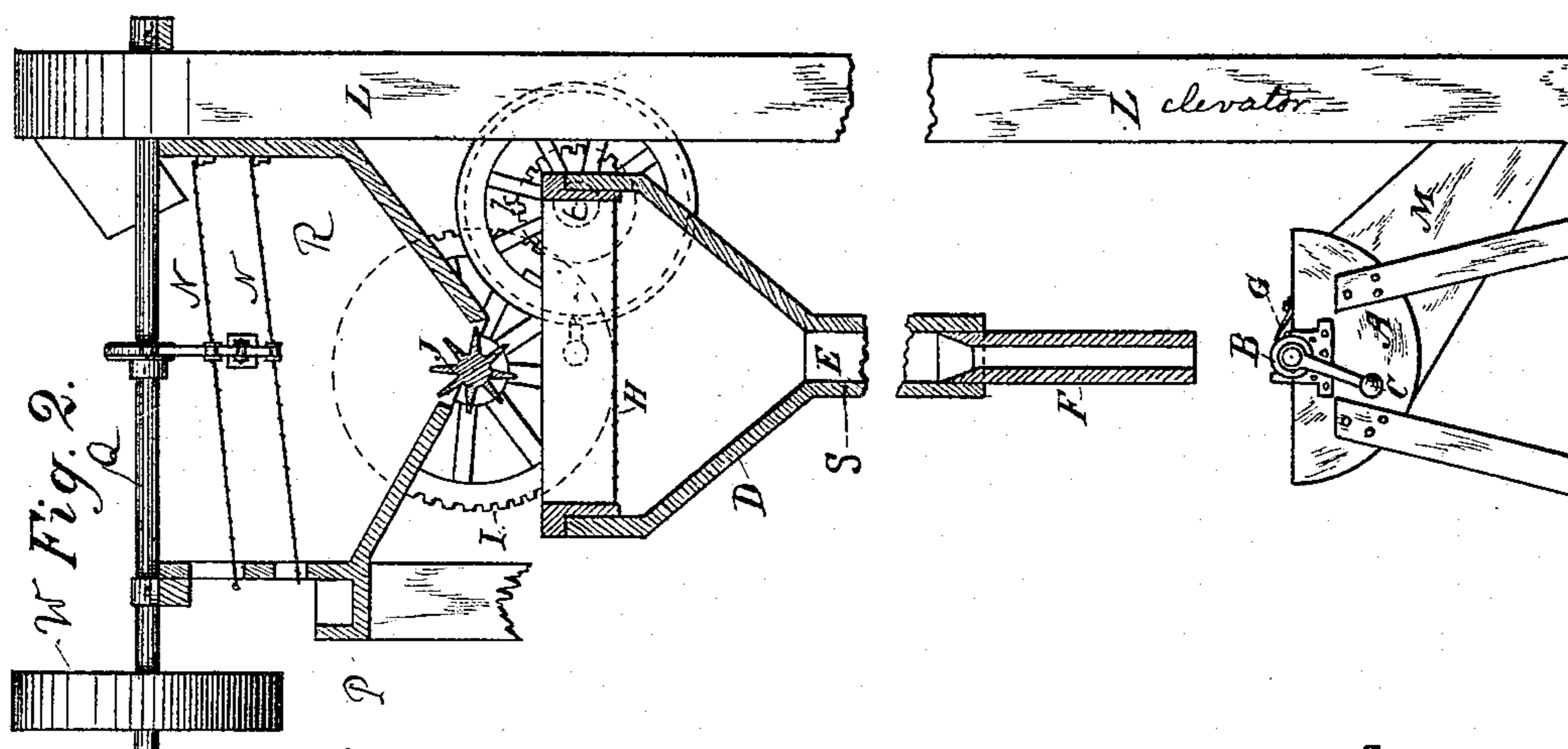
(No Model.)

R. SAVAGE.

APPARATUS FOR FORMING CORES OR MOLDS FOR CASTING.

No. 329,958.

Patented Nov. 10, 1885.



Witnesses,
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UNITED STATES PATENT OFFICE.

RICHARD SAVAGE, OF SAN FRANCISCO, CALIFORNIA.

APPARATUS FOR FORMING CORES OR MOLDS FOR CASTING.

SPECIFICATION forming part of Letters Patent No. 329,958, dated November 10, 1885.

Application filed December 19, 1884. Serial No. 150,780. (No model.)

To all whom it may concern:

Be it known that I, RICHARD SAVAGE, of the city and county of San Francisco, and State of California, have invented an Improved Machine for Forming Cores or Molds for Castings; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to machines for forming cores of sand by impacting the sand around a bar or mandrel.

It consists of special details of construction hereinafter explained.

In the drawings, Figure 1 is a longitudinal vertical section of the apparatus as applied to the formation of cylindrical cores. Fig. 2 is a transverse section of the same.

An elevator, L, of ordinary construction conveys the sand to the sieves N. These sieves are inclined shaking-sieves. They are operated by an eccentric, *g*, (on the shaft Q, having a driving-pulley, W.) The eccentric works through rod *h* and lever *n*, fulcrumed at *o*, the sieves being connected to the lever, as shown in Fig. 1. Beneath the lower edges of the sieves is a trough, P, to convey away all substances not capable of passing through the sieves. Below the sieves N is a hopper, R, having a feed-roll, J, driven by the gear I and pinion *k* on the shaft *l*. Below the hopper R is a second hopper, D, having a shaking-sieve,

H, operated by an arm, *t*, connected to a sinuous cam-path in wheel K on the shaft *l*. To the discharge-opening of the hopper D is fixed a spout, S, located directly above the forming-core. It is desirable to guide the sand and convey it without scattering close to the core, and for this purpose the spout is provided with a telescoping extension, F.

The rotary core B, mounted on a trough, A, and having a scraping-knife, G, is of ordinary construction. It has a spout, M, for conveying away superfluous sand, and the core is turned by handle C.

I claim as my invention—

1. In combination with the rotary core-bar or mandrel, the hopper and the telescoping spout having its discharge-openings equal in length to the mandrel and in the same vertical plane therewith, as set forth.

2. A means for forming cores or molds for castings, consisting of a receiver or hopper, D, having an opening in the bottom, a directing-chute extending downward from said opening, and a supplemental section sliding upon the chute, so that it may be made longer or shorter, substantially as described.

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