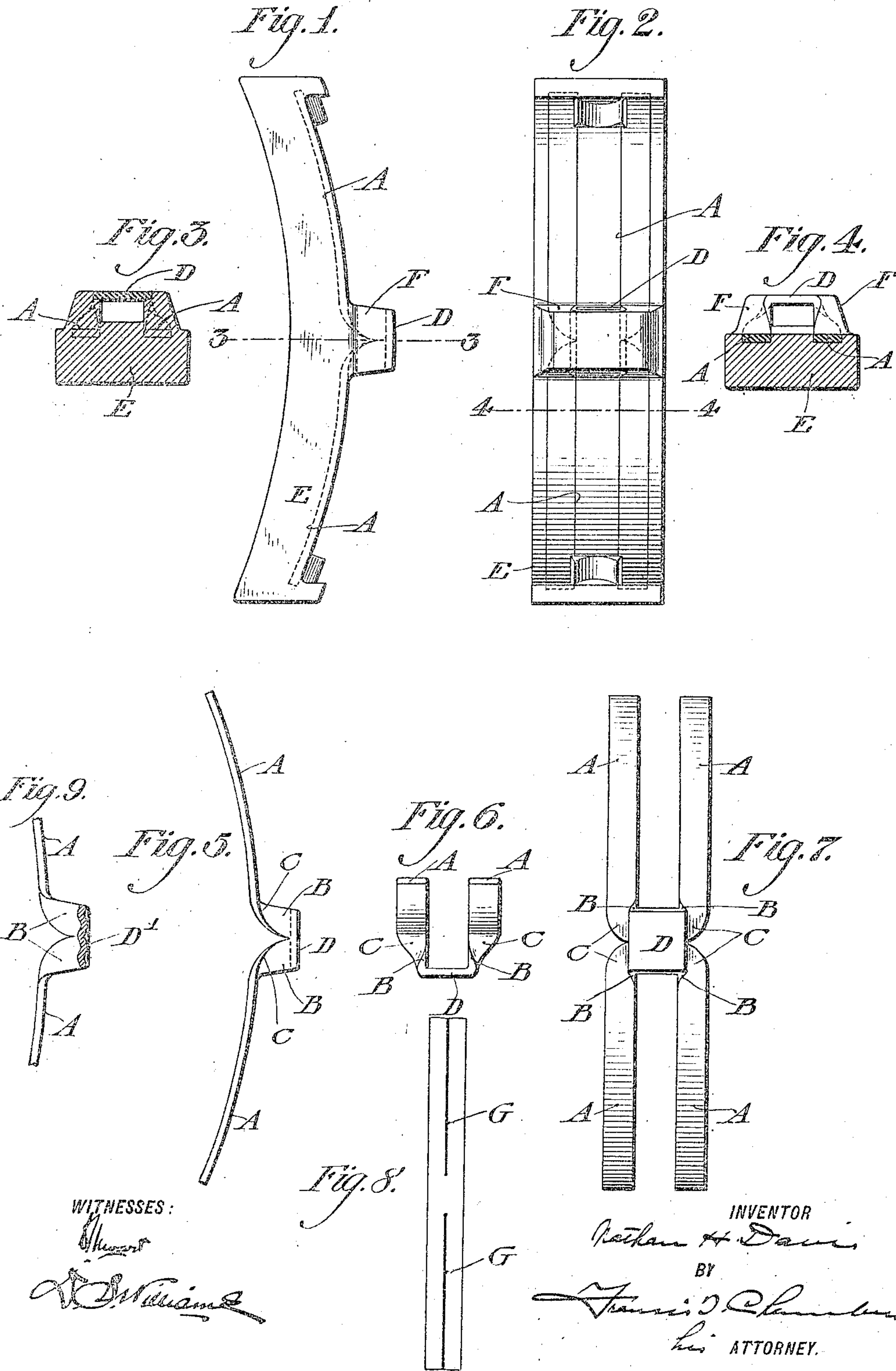


No. 822,352.

PATENTED JUNE 5, 1906.

N. H. DAVIS.
STEEL BACK BRAKE SHOE.
APPLICATION FILED APR. 13, 1906.



UNITED STATES PATENT OFFICE.

NATHAN H. DAVIS, OF PHILADELPHIA, PENNSYLVANIA.

STEEL-BACK BRAKE-SHOE.

No. 822,352.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed April 13, 1906; Serial No. 311,440.

To all whom it may concern:

Be it known that I, NATHAN H. DAVIS, a citizen of the United States of America, residing in the city and county of Philadelphia, in the State of Pennsylvania, have invented a certain new and useful Improvement in Steel-Back Brake-Shoes, of which the following is a true and exact description, reference being had to the accompanying drawings, which form a part thereof.

My invention relates to the class of brake-shoes usually known as "steel-back" brake-shoes—that is to say, cast-metal shoes having incorporated therewith as backing sheets or rods of rolled metal, usually of steel; and my invention consists, essentially, of the novel construction of a sheet-metal backing for such brake-shoes.

The nature of my invention will be best understood as described in connection with the drawings in which it is illustrated, and in which—

Figure 1 is a side elevation of a brake-shoe embodying my invention. Fig. 2 is a top or rear view of such a shoe; Fig. 3, a central cross-section on the line 3 3 of Fig. 1; Fig. 4, a cross-section on the line 4 4 of Fig. 2; Fig. 5, a side view of the sheet-metal backing; Fig. 6, an end view thereof. Fig. 7 is a rear view thereof. Fig. 8 is a view of the sheet-metal plate from which my backing is formed by bending, and Fig. 9 is a view showing in section a modified and preferred construction of the loop.

My shoe-backing consists of four arms A, A, &c., united to a loop D by curved arms B C, the whole being formed from a single sheet of metal, such as is shown in Fig. 8, the blank

consisting of a rectangular plate slit longitudinally, as indicated at G G.

The backing is secured to and incorporated with the cast-metal shoe in the manner clearly indicated in Figs. 1 to 4, in which E indicates the top of the shoe, and F F rearwardly-extending lugs which incorporate the uprights B C and extend, by preference, level with the top of the loop D. I preferably strengthen and stiffen the loop by corrugating it, as shown in Fig. 9 at D'.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A sheet-metal backing for a cast brake-shoe having the arms A, united to a loop through curved connecting-arms and all formed from a sheet of metal.

2. A sheet-metal backing for a cast brake-shoe having the arms A, united to a corrugated loop through curved connecting-arms and all formed from a sheet of metal.

3. A sheet-metal backing for a cast brake-shoe having the arms A, united to a loop through curved connecting-arms and all formed from a sheet of metal in combination with a shoe secured to said backing by casting.

4. A sheet-metal backing for a cast brake-shoe having the arms A, united to a corrugated loop through curved connecting-arms and all formed from a sheet of metal in combination with a shoe secured to said backing by casting.

NATHAN H. DAVIS.

Witnesses:

ARNOLD KATZ,

D. STEWART.