

H. A. SEARLE.
DETACHABLE POURING SPOUT.
APPLICATION FILED APR. 7, 1909.

945,346.

Patented Jan. 4, 1910.

Fig. 1.

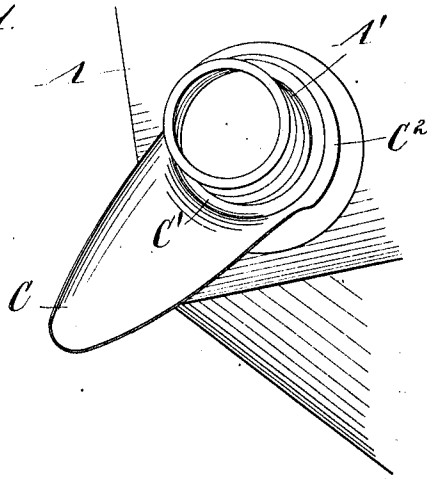


Fig. 6.

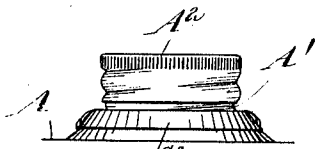
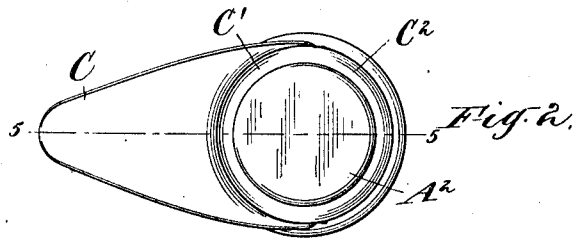
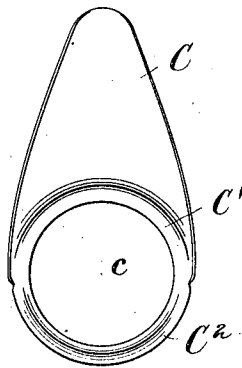


Fig. 4.

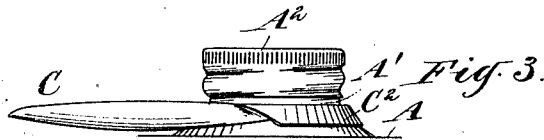


Fig. 5.



Witnesses:
F. J. Green.
T. S. R. Peterson.

Inventor:
Harry A. Searle,
by his attorney,
Charles R. Searle.

UNITED STATES PATENT OFFICE.

HARRY A. SEARLE, OF COUNCIL BLUFFS, IOWA, ASSIGNOR TO MONARCH MANUFACTURING COMPANY, OF COUNCIL BLUFFS, IOWA, A CORPORATION OF ARIZONA TERRITORY.

DETACHABLE POURING-SPOUT.

945,346.

Specification of Letters Patent.

Patented Jan. 4, 1910.

Application filed April 7, 1909. Serial No. 488,372.

To all whom it may concern:

Be it known that I, HARRY A. SEARLE, a citizen of the United States, residing at Council Bluffs, in the county of Pottawattamie and State of Iowa, have invented a certain new and useful Improvement in Detachable Pouring-Spouts, of which the following is a specification.

The invention relates to spouts for directing the flow from the discharge orifices of receptacles, and is designed more especially for service with screw-threaded pouring nozzles of sheet metal cans and analogous containers.

The object of the invention is to provide a simple spout stamped to the desired shape in a single piece of sheet metal, adapted to engage the nozzle and hold itself reliably in position relatively thereto by friction, and which may be economically manufactured, easily applied and removed, and which will serve efficiently.

The invention consists in certain novel features and details of arrangement by which the above objects are attained, to be hereinafter described.

The accompanying drawings form a part of this specification and show an approved form of the invention.

Figure 1 is a perspective view showing the spout in position for service on the nozzle of a can. Fig. 2 is a plan view of the spout and nozzle, the latter being shown as closed by the usual screw-cap. Fig. 3 is a corresponding side elevation. Fig. 4 is a view from the rear. Fig. 5 is a vertical section taken on the line 5-5 in Fig. 2. Fig. 6 is a plan or face view of the spout alone.

Similar letters of reference indicate the same parts in all the figures.

A is the top of a sheet metal can having a screw nozzle A¹ of sheet metal secured thereon, and A² is a screw-cap matching the thread of the nozzle and serving as a closure therefor; all these parts may be understood to be of the ordinary or any approved construction.

The improved spout is of sheet metal in a single piece, stamped and shaped by suitable dies into a dished trough-like form having a general resemblance to the flattened bowl of a spoon, provided at the large end with an opening *c*, the narrow end serving as a pouring-lip C. The metal immediately sur-

rounding the opening is raised as at C¹ above the bottom of the spout and at the rear is formed into an angular depending flange C², the edges of the spout being bent or folded downwardly at the sides and rear to form such flange and increase the stiffness.

The opening *c* is of such diameter as to match closely to the spiral groove formed by the thread on the nozzle and when screwed home thereon is held in position by the strong frictional engagement thus induced, with the lip projecting slightly beyond the top of the can and presented in the desired position for pouring. Thus conditioned the spout serves efficiently in directing the flow of liquid from the nozzle.

The application of the screw-cap A² prevents the removal of the spout, and in shipping the cans thus equipped the spout may be partially revolved on the nozzle to extend over the top of the can and thus protected against injury or distortion in transit, or, a detached spout may be furnished with each can, to be applied thereto by the user.

Modifications may be made in the forms and proportions within wide limits in adapting the invention for service with various types of cans and nozzles, and to meet the requirements of the various liquids to be contained in such receptacles.

I claim:—

1. The spout described comprising a single piece of sheet metal, having an opening adapted to match to the thread of a screw-nozzle and held thereon by frictional engagement therewith, said spout having an angularly depending flange and having a pouring lip serving to direct the flow from such nozzle.

2. A detachable spout comprising a single piece of sheet metal having an opening at one end, a pouring lip at the other end, and a flange partially surrounding said opening and depending angularly, the edges of the spout being bent downwardly at the sides and rear to add rigidity thereto, in combination with a screw-nozzle having a thread adapted to match closely in said opening and to hold said spout in position by frictional engagement therewith.

3. The combination with a sheet metal can top provided with a screw-threaded nozzle, of a detachable spout having a body portion with opening closely matching the spiral

groove of the thread of the nozzle, with one
end formed into a pouring lip and the other
end having an angularly disposed depending
flange about said opening, and a screw cap
5 engaging said nozzle and preventing re-
moval of the spout but permitting it to be
partially revolved on said nozzle.

In testimony that I claim the invention
above set forth I affix my signature, in pres-
ence of two witnesses.

HARRY A. SEARLE.

Witnesses:

E. J. MEDLAR,
ED. D. JUDD.